

Quick answers to common problems

Building E-commerce Sites with Drupal Commerce Cookbook

Over 50 recipes to help you build engaging, responsive E-commerce sites with Drupal Commerce

Foreword by Robert Douglass, Director of Product Strategy, Commerce Guys







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Richard Carter



BIRMINGHAM - MUMBAI

Building E-commerce Sites with Drupal Commerce Cookbook

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Foreword

Drupal, one of the most loved and trusted open source content management systems, has seen 12 years of strong growth and become a top choice for building any type of website. In many areas, Drupal has become the de-facto standard, including media, government, university, and library sites.

Since 2011, Drupal has also had an enterprise class e-commerce framework available called Drupal Commerce. The fastest growing open source cart in history, Drupal Commerce already powers a large number of very impressive sites, selling products from luxury goods (Cartier), fashion (Kenzo), online learning (Open Sesame), travel (Eurocentres), to postage stamps and fishing licenses (the Royal Mail of the United Kingdom).

This book explores Drupal Commerce through the lens of the Commerce Kickstart distribution—an out-of-the-box store, completely built and ready to go, featuring the best practices for selling shipable goods online. Commerce Kickstart will not only save you weeks of work setting up your shop, it is an invaluable resource for studying what can be done with Drupal Commerce, and how.

Once you dive into the world of Drupal Commerce, you get much more than just a great shopping cart. Of all the e-commerce systems available, Drupal Commerce is by far the most flexible, leveraging key Drupal-native components such as Rules and Views to achieve much of its functionality. It is also the only system that is natively married to a content management system. In fact, Drupal's heritage as a social collaboration tool makes it the best choice for any project that focuses on content, community, and commerce in a holistic, integrated way.

Finally, by learning Drupal Commerce now, you are making the right move at the right time. e-commerce is the quickest growing new frontier for the Drupal ecosystem. Whether you're a seasoned e-commerce pro, or preparing for your first online shop, Drupal Commerce can enable you to address a new set of business needs and opportunities. Good luck, and enjoy yourself!

Robert Douglass

Director of Product Strategy, Commerce Guys

About the Author

Richard Carter is a web designer and a frontend web developer with a passion for a range of open source e-commerce and content management systems, including Magento, MediaWiki, and Drupal. He has worked with clients including Badminton England, University College Dublin, Directgov, NHS Choices, and BusinessLink.gov.uk.

Richard is Creative Director at Peacock Carter Ltd (peacockcarter.co.uk), a web design and development agency based in the North East of England. He graduated from the University of Durham in Software Engineering, and currently lives in Newcastle upon Tyne. He blogs at earlgreyandbattenburg.co.uk and tweets at twitter.com/RichardCarter.

This book is the author's fifth; Richard has previously written *MediaWiki Skins Design*, *Magento 1.3 Theme Design*, *Joomla! 1.5 Templates Cookbook*, and *Magento 1.4 Themes Design* and has acted as a technical reviewer on The Definitive Guide to Drupal 7, *Drupal 7 Business Solutions*, *MediaWiki 1.1 Beginners Guide*, and *Inkscape Illustrator's Guide*.

A huge thank you must go to the guys behind Drupal Commerce, Commerce Guys, who put a lot of effort into ensuring modules were stable for the book's release, as well as days or even weeks of their time reviewing the book's content.

Finally, thanks to my friends and family for their support, in particular, Karina, who has coped spectacularly well (perhaps too well!) with my late nights and weekends of work.

About the Reviewers

Augustin Delaporte graduated from INSA Lyon, one of the top engineering schools in France. During his studies, he worked in Shanghai as a Drupal developer.

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He has also reviewed other technical books, namely, *Drupal 7 Multi Site Configuration* and *Drupal Search Engine Optimization*.

I would like to thank my family and friends who supported and encouraged me in completing my reviews on time with good quality.

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Preface

Building E-commerce Sites with Drupal Commerce Cookbook is a guide to Drupal Commerce, the highly functional and expansive e-commerce system for the Drupal content management system.

Whether you're a beginner with e-commerce and want to create an online store as quickly as possible to start selling, or you're a web designer, who is simply new to Drupal Commerce and wants to get it up and running quickly, Drupal Commerce Cookbook can help you launch your next e-commerce store with style!

What this book covers

Chapter 1, Installing and Configuring Drupal Commerce, helps you get Drupal Commerce up and running and configured for basic e-commerce store requirements.

Chapter 2, Configuring Products with Drupal Commerce, takes you through creating products and categories in your store, and how to start customizing products to allow file uploads and other custom fields.

Chapter 3, Managing Your Drupal Commerce Store Day-to-day, includes useful hints and tips to keep your Drupal Commerce store up to date and useful how-to's of tasks you may need to do on a regular basis.

Chapter 4, Useful Modules for Drupal Commerce, explores some of the most useful modules you can use to extend and improve your online store.

Chapter 5, Payment and Shipping Modules for Drupal Commerce, provides walkthroughs of installation and configuration of the most common payment gateways, including SagePay and PayPal, as well as custom shipping methods.

Preface -

Chapter 6, Drupal Commerce Search Engine Optimization, provides hints and tips to help boost your online store's search engine friendliness to help your store succeed online.

Chapter 7, Theming Drupal Commerce, gets to grips with customizing the look and feel of your Drupal Commerce store.

Chapter 8, Further Configuration, explores some further enhancements and configurations you can make to your store to improve it for both store owners and customers alike.

Appendix, A Blueprint for a T-shirt Store in Drupal Commerce, pulls the other chapters together into creating a store selling t-shirts online.

What you need for this book

You will need access to a suitable platform to host Drupal 7 and Drupal Commerce. You can find a list of up-to-date requirements at http://drupal.org/project/commerce.

A basic knowledge of content management is assumed; pre-existing knowledge of Drupal or Drupal Commerce is not assumed. A basic knowledge of CSS and HTML may be beneficial, but is not entirely necessary.

Who this book is for

This book is for online entrepreneurs, site builders, and web designers who want a helping hand at getting their online store up and running with Drupal Commerce.

This book focuses heavily on tasks that non-technical readers can achieve, bringing a fully functioning e-commerce website closer to those who have a get-up-and-go attitude thanks to Drupal.

Conventions

In this book, you will find a number of styles of text that distinguish between different kinds of information. Here are some examples of these styles, and an explanation of their meaning.

Code words in text, database table names, folder names, filenames, file extensions, pathnames, dummy URLs, user input, and Twitter handles are shown as follows: "So, sites/default/files/favicon.ico or, simply, favicon.ico are good values for this field."

A block of code is set as follows:

```
h1,h2,h3,h4,h5,h6 {
  font-family: "PT Sans", Arial, Helvetica, sans-serif;
}
```



When we wish to draw your attention to a particular part of a code block, the relevant lines or items are set in bold:

New terms and **important words** are shown in bold. Words that you see on the screen, in menus or dialog boxes for example, appear in the text like this: "Clear Drupal's cache by navigating to **Site settings** | **Configuration** | **Performance** and clicking on the **Clear all caches** button."



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Preface

Errata

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Installing and Configuring Drupal Commerce

In this chapter we will cover the following topics:

- ▶ Installing Drupal Commerce to an existing Drupal 7 website
- ▶ Installing Drupal Commerce with Commerce Kickstart 2
- Creating your first basic product
- ▶ Configuring the checkout in Drupal Commerce
- Configuring the currency in Drupal Commerce
- ▶ Changing your store's logo file
- Changing your store's favicon (favorites icon)
- Adding social media icons on product pages

Introduction

Drupal Commerce (http://www.drupalcommerce.org) is a collection of modules that extend the Drupal content management system to support an e-commerce-style store.

Drupal Commerce provides a much more stripped back alternative to the Ubercart module (http://www.ubercart.org), which became the most popular e-commerce package for Drupal 6. Ryan Szrama was the lead developer on the UberCart project before moving to work on the Drupal Commerce framework. As a relatively new project, Drupal Commerce is only supported from Drupal 7 onwards.

Installing and Configuring Drupal Commerce -

In particular, an obvious initial difference between Ubercart and Drupal Commerce is that the latter does not come with shipping or payment gateways pre-installed. It is left to the site builder to install the modules they want to use to fulfill these features. As such, Drupal Commerce is presented as more of a framework than Ubercart, which is designed to be more functional out of the box.

This chapter will guide you through the basic configuration your Drupal Commerce store may need to function, from installation to checkout, and currency configuration options.

The remainder of the recipes in this book assume that you have used the Drupal Commerce Kickstart installation profile for Drupal, though you should be able to follow all recipes regardless of this.

Installing Drupal Commerce to an existing Drupal 7 website

There are two approaches to installing Drupal Commerce; this recipe covers installing Drupal Commerce on an existing Drupal 7 website.

Getting started

You will need to download Drupal Commerce from http://drupal.org/project/commerce. Download the most recent recommended release you see that couples with your Drupal 7 website's core version:

Downloads					
Recommended releases					
Version	Downloads	Date	Links		
7.x-1.3	tar.gz (345.41 кв) zip (468.12 кв)	2012-May-09	Notes		
Development releases					
Version	Downloads	Date	Links		
7.x-1.x-dev	tar.gz (352.13 кв) zip (478.34 кв)	2012-Aug-19	Notes		

You will also require the following modules to allow Drupal Commerce to function:

- Ctools: http://drupal.org/project/ctools
- Entity API: http://drupal.org/project/entity
- Views: http://drupal.org/project/views
- Rules: http://drupal.org/project/rules
- Address Field: http://drupal.org/project/addressfield



How to do it...

Now that you're ready, install Drupal Commerce by performing the following steps:

- 1. Install the modules that Drupal Commerce depends on, first by copying the preceding module files into your Drupal site's modules directory, sites/all/modules.
- Install Drupal Commerce's modules next, by copying the files into the sites/all/ modules directory, so that they appear in the sites/all/modules/commerce directory.
- 3. Enable the newly installed Drupal Commerce module in your Drupal site's administration panel (example.com/admin/modules if you've installed Drupal Commerce at example.com), under the **Modules** navigation option, by ensuring the checkbox to the left-hand side of the module name is checked.
- 4. Now that Drupal Commerce is installed, a new menu option will appear in the administration navigation at the top of your screen when you are logged in as a user with administration permissions.

You may need to clear the cache to see this. Navigate to **Configuration | Development | Performance** in the administration panel to do this.



How it works...

Drupal Commerce depends on a number of other Drupal modules to function, and by installing and enabling these in your website's administration panel you're on your way to getting your Drupal Commerce store off the ground.



You can also install the Drupal Commerce modules via **Drush** (the Drupal Shell) too. For more information on Drush, see http://drupal.org/project/drush.



Installing and Configuring Drupal Commerce

Installing Drupal Commerce with Commerce Kickstart 2

Drupal Commerce requires quite a number of modules, and doing a basic installation can be quite time-consuming, which is where Commerce Kickstart 2 comes in. It packages Drupal 7 core and all of the necessary modules.

Using Commerce Kickstart 2 is a good idea if you are building a Drupal Commerce website from scratch, and don't already have Drupal core installed.

Getting started

Download Drupal Commerce Kickstart 2 from its drupal.org project page at http://drupal.org/project/commerce kickstart.

How to do it...

Once you have decompressed the Commerce Kickstart 2 files to the location you want to install Drupal Commerce in, perform the following steps:

- 1. Visit the given location in your web browser. For this example, it is assumed that your website is at example.com, so visit this address in your web browser.
- 2. You'll see that you are presented with a welcome screen as shown in the following screenshot:



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- 3. Click the **Let's Get Started** button underneath this, and the installer moves to the next configuration option.
- 4. Next, your server's requirements are checked to ensure Drupal can run in this environment.

Welcome	Web server	Apache/2.2.8 (Ubuntu) DAV/2 SVN/1.4.6 PHP/5.2.4-2ubuntu5.10 with Suhosin-Patch
Verify requirements	PHP	5.2.4-2ubuntu5.10
Set up database	PHP register globals	Disabled
Install profile	PHP extensions	Enabled
I	Database support	Enabled
Configure site	🛕 PHP memory limit	32M
Configure store Finished	Consider increasin errors in the instal the memory_limit p then restart your w hosting provider fo information.	g your PHP memory limit to 128M to help prevent lation process. Increase the memory limit by editing barameter in the file /etc/php5/apache2/php.ini and leb server (or contact your system administrator or r assistance). See the Drupal requirements for more
	The directory sites/ create this director proceed with the in permissions manu create it automatic online handbook.	default/files does not exist. An automated attempt to y failed, possibly due to a permissions problem. To istallation, either create the directory and modify its ally or ensure that the installer has the permissions to ally. For more information, see INSTALL.txt or the
	Unicode library	PHP Mbstring Extension
	Chosen JavaScript file	Available
	PHP DOM extension	Enabled
	cURL	Enabled
	Settings file The Commerce Kic as part of the insta default.settings.php installing Drupal a	The settings file does not exist. kstart installer requires that you create a settings file llation process. Copy the <i>./sites/default/</i> file to <i>./sites/default/settings.php</i> . More details about re available in INSTALL.txt.
	Check the error messa	ges and proceed with the installation.

- 5. In the preceding screenshot you can see some common problems when installing Drupal that prevent installation. In particular, ensure that you create the /sites/ default/files directory in your Drupal installation and ensure it has permissions to allow Drupal to write to it (as this is where your website's images and files are stored).
- 6. You will also need to copy the /sites/default/default.settings.php file to /sites/default/settings.php before you can start. Make sure this file is writeable by Drupal too (you'll secure it after installation is complete).



Installing and Configuring Drupal Commerce —

7. Once these problems have been resolved, refresh the page and you will be taken to the **Set up database** screen. Enter the database username, password, and database name you want to use with Drupal, and click on **Save and continue**:

Welcome	Database type *
	MySQL, MariaDB, or equivalent
Verify requirements	○ SQLite
	The type of database your Commerce Kickstart data will be stored in.
Set up database	Database name *
Install profile	drupal_kickstart
Configure site	The name of the database your Commerce Kickstart data will be stored in. It must exist on your server before Commerce Kickstart can be installed.
Configure site	Database username *
Configure store	drupal_kickstart
	Database password
Finished	
	Advanced options
	Save and continue

8. The next step is the **Install profile** section, which can take some time as Drupal Commerce is installed for you. There's nothing for you to do here; just wait for installation to complete!

	Completed 25 of 111.	23
Verify requirements	Installed <i>Order</i> module.	
et up database		
Install profile		
Configure site		
Configure store		
Finished		



- 9. You can now safely remove write permissions for the settings.php file in the /sites/default directory of your Drupal Commerce installation.
- 10. The next step is **Configure site**. Enter the name of your new store and your e-mail address here, and provide a username and password for your Drupal Commerce administrator account. Don't forget to make a note of these as you'll need them to access your website later!

Site information	
Store name *	
Commerce Kickstart Demo	
Store email address *	
richard@example.com	
Automated e-mails, such as registratic Use an address ending in your site's d flagged as spam.	on information, will be sent from this address. Jomain to help prevent these e-mails from being
Site maintenance	e account
Username admin	
Password admin	
I his information will be emailed to the	e store email address.
Change my username and p	e store email address. bassword.
Change my username and p Username *	a store email address. Dassword.
Change my username and p Username * admin	a store email address. bassword.
Change my username and p Username * admin Spaces are allowed; punctuation is no underscores.	e store email address. D assword. Dt allowed except for periods, hyphens, and
Change my username and p Username * admin Spaces are allowed; punctuation is no underscores. Password *	a store email address. bassword. at allowed except for periods, hyphens, and
Inis information will be emailed to the Change my username and p Username * admin Spaces are allowed; punctuation is no underscores. Password *	e store email address. bassword. ot allowed except for periods, hyphens, and Password strength: Strong
Confirm password * Change my username and p Username * admin Spaces are allowed; punctuation is no underscores.	a store email address. bassword. at allowed except for periods, hyphens, and Password strength: Strong
Inis information will be emailed to the operation will be emailed to the operation will be emailed to the operation of th	e store email address. bassword. bt allowed except for periods, hyphens, and Password strength: Strong Passwords match: yes

11—

Installing and Configuring Drupal Commerce -

11. Below these options, you can specify the country of your server and the default time zone. These are usually picked up from your server itself, but you may want to change them:

Server settings	
Default country	
United Kingdom	-
Select the default country for the site.	
Default time zone	
Europe/London: Tuesday, January 29, 2013 - 18:33 +0000	-
By default, dates in this site will be displayed in the chosen time zone.	

12. Click on the **Save and continue** button to progress now; the next step is **Configure store**. Here you can set your **Default store country** field (if it's different from your server settings) and opt to install Drupal Commerce's demo, which includes sample content and a sample Drupal Commerce theme too:

	Country
Verify requirements	Default store country *
Cot up database	United Kingdom
Install profile	Services specific to the selected country will be installed if they exist.
Configure site	Functionality
Configure store	Do you want to install the demo store?
Configure store	Do you want to install the demo store? Yes Shows you everything Commerce Kickstart can do. Includes a subscription theore cample context and products

- 13. Further down on this screen, you're presented with more options. By checking the **Do you want to be able to translate the interface of your store?** field, Drupal Commerce provides you with an ability to translate your website for customers of different languages (for this simple store installation, leave this set to **No**).
- 14. Finally, you can set the **Default store currency** field you wish to use, and whether you want Commerce Kickstart to set up a sales tax rule for your store (select which is more appropriate for your store, or leave it set to **No sample tax rate** for now):







15. Click on **Create and finish** at the bottom of the screen. If you chose to install the demo store in the previous screen, you will have to wait as it is added for you.

• Welcome	Completed 3 of 39. 8	8%
Verify requirements	Installed <i>Service links</i> module.	
Set up database		
Install profile		
Configure site		
Configure store		
Install demo store		
Import content		
Finished		



Installing and Configuring Drupal Commerce -

16. There are now options to allow Drupal to check for updates automatically, and to receive e-mails about security updates. Leave these both checked to help you stay on top of keeping your Drupal website secure and up-to-date.



- 17. Wait as Commerce Kickstart installs everything Drupal Commerce requires to run.
- 18. That's it! Your Drupal Commerce store is now up and running thanks to Commerce Kickstart 2.

How it works...

The Commerce Kickstart package includes Drupal 7 core and the Drupal Commerce module. By packaging these together, installation and initial configuration for your Drupal Commerce store is made much easier!

Creating your first product

Now that you've installed Drupal Commerce, you can start to add products to display to customers and start making money.

In this recipe you will learn how to add a basic product to your Drupal Commerce store.

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Getting started

Log in to your Drupal Commerce store's administration panel, and navigate to **Products** | **Add a product**:



This book assumes you enabled the Drupal Commerce admin menu at installation stage. If you haven't, navigate to **Site settings** | **Modules** and ensure that the Commerce Kickstart Menu module is enabled for your store.

Products Home Administration Products Actions Manage products				
Help Each p produc Show t	p on products product has both a display and can have many variations (size, color, etc cts grouped by display. more	Close). This page lists all of the		
Filter by	All product types All statuses All categories	earch by title or SKI1		
	Title	Operations		
	Product 1 Sample Category 1	Quick Edit 🔻		
	Product 2 Sample Category 2	Quick Edit 🔹		
€_B	Apply			

Note the sample products from Drupal Kickstart's installation are displaying there.

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How to do it...

To get started adding a product to your store, click on the **Add product** button and follow these steps:

- 1. Click on the **Product** display. **Product** displays groups of multiple related product variations together for display on the frontend of your website.
- Fill in the form that appears, entering a suitable Title, using the Body field for the product's description, as well as filling in the SKU (stock keeping unit; a unique reference for this product) and Price fields. Ensure that the Status field is set to Active. You can also optionally upload an image for the product here:

itle *			
est prod	luct		
ody			
This is a	test product.		
dd new	/ product		
Details			
SKU *	TEST1		
Supply a	unique identifier	using letters, numbers, hyphens, and underscores. Commas may not be used.	
Price *	24.99	GBP Include tax in this price - None -	•
Status '	* 🖲 Active (Disabled	
Produc	t image		
Add a n	ew file		
		Choose Upload	
Files mus Allowed fi	t be less than <mark>2 N</mark> ile types: <mark>png gif j</mark>	/B. ipg.jpeg.	
Sal	/e product		

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3. Optionally, you can assign the product to one of the pre-existing categories in the **Product catalog** tab underneath these fields, as well as a URL for it in the **URL path settings** tab:

riouuci catalog	Product category
Menu settings Not in menu	Sample Category 2 - - None - Sample Category 1
Revision information No revision	Sample Category 2
URL path settings Automatic alias	
Comment settings Open	
Authoring information By admin	
Publishing options Published	

- 4. Click on the **Save product** button, and you've now created a basic product in your store.
- 5. To view the product on the frontend of your store, you can navigate to the category listings if you imported Drupal Commerce's demo data, or else you can return to the **Products** menu and click on the name of the product in the **Title** column:

Title Operations	
Test product Sample Category 1	Quick Edit 💌

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6. You'll now see your product on the frontend of your Drupal Commerce store:

commerce kickstart			Search	م	
Sample Category 1 Sample Category 2	All Products			Contact	About
Home » Sample Category 1 » Shipping fees					
View Edit Test product £29.89 This is a test product.					
Enter Quantity : 1 🚖					
Add to cart 🛒					

How it works...

In Drupal Commerce, a product can represent several things, listed as follows:

- ► A single product for sale (for example, a one-size-fits-all t-shirt)
- A variation of a product (for example, a medium-size t-shirt)
- An item that is not necessarily a purchase as such (for example, it may represent a donation to a charity)
- An intangible product which the site allows reservations for (for example, an event booking)

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Product displays (for example, a blue t-shirt) are used to group product variations (for example, a medium-sized blue t-shirt and a large-sized blue t-shirt), and display them on your website to customers.

So, depending on the needs of your Drupal Commerce website, products may be displayed on unique pages, or multiple products might be grouped onto one page as a product display.

Configuring the checkout in Drupal Commerce

Like any flexible e-commerce platform, Drupal Commerce has many options you can configure to control how your store works. The checkout is a very flexible part of your store, with the ability to change the checkout process to suit your organization's needs.

This recipe will guide you through the basic items you will likely want to configure in your Drupal Commerce store.

Getting started

Log in to your Drupal administration panel and navigate to Store Settings | Checkout settings.

How to do it...

You can now start customizing the checkout settings for your Drupal Commerce store as follows:

1. The view you can see indicates in which order the various elements of the checkout process appear. Firstly, ensure you have the Commerce Checkout module enabled (navigate to **Site settings | Modules** for this).

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2. To re-order these, you can drag and drop each stage using the arrows icon to the left-hand side of the screen (highlighted next to the **Shopping cart contents** option as shown in the following screenshot):

Checkout settings				
Home ► Administration ► Store settings ► Advanced store settings ► Che	ckout settings Checkout form	Checkout rules		
Use the table below to build your checkout form using the available checkout panes and pages defined by me enabled on your site. You may configure the checkout pane settings using the operations links below. Show row				
Checkout pane	Operations			
Checkout				
+ Shopping cart contents	configure			
+ Account information	configure			
+ Billing information	configure			
+ Shipping information	configure			
Shipping				
+ Shipping service	configure			
Review order				
+ Review	configure			
+ Payment	configure			

Beware that some configurations could break your store's checkout process or confuse customers. For example, moving the completion message to the first stage of the checkout process would be very misleading!

3. You can also see a **configure** option to the right-hand side of each checkout phase. Select the one next to the **Shopping cart contents** phase, and you will be presented with options on how the checkout phase is displayed:



Chapter 1

Shopping cart contents' checkout pane	×				
Administration Store settings Advanced store settings Checkout settings 'Shopping cart contents' checkout pane					
	_				
Display settings					
These settings are common to all checkout panes and affect their appearance on the checkout form. Checkout form fieldset display					
Display this pane in a non-collapsible fieldset.					
O Display this pane in a collapsible fieldset.					
O Display this pane in a collapsed fieldset.					
O Do not display this pane in a fieldset.					
Checkout panes are rendered on the checkout form in individual fieldsets. Specify here how the fieldset for this pane will appear.					
Include this pane on the Review checkout pane.					
Checkout pane configuration					
These settings are specific to this checkout pane.					
Cart contents View					
Defaults -					
Specify the View to use in the cart contents pane.					
Save configuration Reset to defaults Cancel					

- 4. The options beneath the **Display settings** panel control how this panel is displayed to your customers:
 - 1. **Display this pane in a non-collapsible fieldset**: This option is the default, and displays the checkout phase in full, with no option to collapse it from view.
 - 2. **Display this pane in a collapsible fieldset**: This option shows the checkout phase in full by default, but provides an option to collapse it from view if the customer prefers.
 - 3. **Display this pane in a collapsed fieldset**: This option hides the phase from the view of the customer, but allows itself to be viewed in full by clicking on it to enlarge it within the page.
 - 4. **Do not display this pane in a fieldset**: This option removes the <fieldset> element from around the HTML elements used to display this checkout phase, which may be of use when theming your Drupal Commerce store.



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5. The **Include this pane on the Review checkout pane** checkbox underneath these options controls whether this block is shown on the checkout overview page, where the customer is required to confirm their order details.

How it works

Drupal Commerce's checkout process is divided into a series of phases. Each phase can contain one or more panes which can be used to display information (shopping cart content) or to get information from the user (billing address). If a phase doesn't have a pane assigned to it, it will not be displayed during checkout.

It's worth noting that some contributed modules can add settings to panes associated with Drupal Commerce's checkout too, such as the Commerce Addressbook module (see http://drupal.org/project/commerce_addressbook for more information on this module).

Configuring the currency in Drupal Commerce

One of the fundamental settings in your Drupal Commerce store is the currency your store uses. This recipe will guide you through changing and configuring the default currency for your Drupal Commerce store.

Getting started

Log in to your Drupal Commerce store's administration panel and navigate to **Store settings** | **Currency settings**.

How to do it...

The **Default store currency** setting provides a drop-down menu of currencies you can pick from; select your preferred option here if it has changed since your installation of Drupal Commerce.



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The currency settings also allow you to specify additional currencies when creating a product by selecting none, ore, or more than one checkboxes, but Drupal Commerce will not convert between currencies by default:



You can install a contributed module to automatically convert the currencies with the current conversion rate, or choose to manually fill in the prices in all currencies. See the Currency Exchange module at http://drupal.org/project/currency for more information.


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- 1. Click on the **Save configuration** button to save your changes.
- 2. If you view the product on the frontend of your store, as customers would see it, you will see that the cost is displayed in the currency you specified here:



3. Note the default "Drupal Commerce" image on the bag used as the default placeholder image for products with no photograph.

How it works...

Changing the default currency on your store changes the symbol shown before or after the price value you set for each product, but does not attempt to convert values between currencies (see the Drupal Currency Exchange module for related functionality). So, if you change the default setting from **United States Dollars (USD)** to **Hong Kong Dollars (HKD)**, the costs you specified when creating the product would remain the same (so \$9.99 USD would become \$9.99 HKD).

Depending on the currency you have set, Drupal Commerce will change the number of decimal points in the price displayed, as well as whether the currency symbol appears before or after the price on your store.

Changing your store's logo file

One of the most visual elements of your store is your logo, and it can help make a great impression on your customers.

This recipe will show you how to change your Drupal Commerce store's logo.



Getting started

Log in to your Drupal Commerce control panel, and navigate to **Appearance**, and then to the **Settings** tab at the top right-hand corner of the screen:

Appearance	×
Home Administration Site settings Visual & Layout Appearance Settings List Update	Settings
Global settings Bartik Omega Kickstart	Shiny
These options control the default display settings for your entire site, across all themes. Unless they ha overridden by a specific theme, these settings will be used.	ave been
Toggle display	
Enable or disable the display of certain page elements.	
Site name	
🖌 Site slogan	
Ser pictures in posts	
Ser pictures in comments	
✓ User verification status in comments	
Shortcut icon	
Main menu	
Secondary menu	
Logo image settings	
If toggled on, the following logo will be displayed.	

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How to do it...

Now that you've found this screen, you can begin to change your Drupal Commerce store's logo:

1. Ensure you are under the **Global settings** tab; you will be presented with options. Under the **Toggle display** options block, ensure that the **Logo** checkbox is selected:



2. Next, scroll down towards the **Logo image settings** block and uncheck the **Use the default logo** checkbox to disable Drupal Commerce's default logo.

Logo image settings
If toggled on, the following logo will be displayed. Use the default logo
Check here if you want the theme to use the logo supplied with it.

3. Once unchecked, more options will appear below this: the **Path to custom logo** field, and the **Upload logo image** field.

If toggled	on, the following ne default logo	; logo will be di	splayed.		
Check h	ere if you want the th	neme to use the lo	ogo supplied	with it.	
Path to c	ustom logo				
The path to	the file you would lik	ke to use as your	logo file inste	ad of the default	logo.
Upload lo	go image				
Choose	File No file chos	sen			



4. To use an image that is already on your Drupal Commerce installation's server, simply enter the path to your logo file in the **Path to custom logo** field. Good directories to store your store's logo in could be image/ or sites/default/files/images/.

Logo image settings
If toggled on, the following logo will be displayed. Use the default logo
Check here if you want the theme to use the logo supplied with it.
Path to custom logo
/image/logo.png
The path to the file you would like to use as your logo file instead of the default logo.
Upload logo image
Choose File No file chosen
If you don't have direct file access to the server, use this field to upload your logo.

- 5. Click on the **Save configuration** button to retain your new logo.
- 6. To upload a logo from your computer to your Drupal Commerce site, use the Upload logo image field and click on the Save configuration button to save this choice of logo. Ensure that the Path to custom logo field is empty before saving, as otherwise it will produce an error. Either Path to custom logo or the Upload logo image field can be used, but you cannot use both together.

Upload logo image	
Choose File No file chosen	
If you don't have direct file access to the server, use this	field to upload your logo.

7. If you now view the frontend of your Drupal Commerce store, you will see the new logo has appeared:

	My account Log out 🚍	Empty £0.00	Checkeut
DRUPALCOMMERCE	Search		Q,
All Products			
Home			



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Changing your store's favicon (favorites icon)

Alongside your logo, your store also has a favorites icon, also known as a **favicon** or a shortcut icon, which is a small graphic you can use to distinguish your store from other websites in a number of contexts, including in lists of the visitor's bookmarked websites.

Getting started

By default, the favicon image is Drupal Commerce's logo. To see it, visit your Drupal Commerce store website in a browser and you will see it appear in one of a number of positions depending on your browser. In Chrome, the favicon appears in the tab next to the web page's name:



In Internet Explorer 9, the favorites icon appears both in the page's tab and in the address bar:

← → <mark>○</mark> http://	🗝 🗟 🖒 🗙 <mark>O</mark> Commerce Kickstart 🛛 🗙



You will need to create a graphic for your favorites icon. There are a number of online favicon generators you can use, such as Dynamic Drive's tool at http://tools.dynamicdrive.com/favicon/, which can create a favicon from JPEG, GIF, and PNG formats.

Ensure you are logged in to your store's administration panel.

How to do it...

To change your Drupal Commerce store's favicon, follow these steps:

- 1. Navigate to **Appearance** and click on the **Settings** tab towards the top right-hand corner of the screen.
- 2. Ensure that the **Shortcut icon** checkbox is enabled in the **Toggle display** settings:







3. Now scroll down, and you will see the **Shortcut icon settings** field. Uncheck the **Use the default shortcut icon** field and you are presented with two options: **Path to custom icon** and **Upload icon image**.

ihortcut icon settings	
'our shortcut icon, or 'favicon', is displayed in the address bar and bookmarks of most prowsers.	
Check here if you want the theme to use the default shortcut icon.	
Path to custom icon	
he path to the image file you would like to use as your custom shortcut icon.	
Choose File No file chosen	
you don't have direct file access to the server, use this field to upload your shortcut icon.	

4. To use an icon file already on your server, use the **Path to custom icon** field, enter the relative URL (that is, with the http://www.yourstore.com part). So, sites/ default/files/favicon.ico or simply favicon.ico are good values for this field.





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 To upload a file on your computer for use as the favicon for your Drupal Commerce store, use the **Upload icon image** field. Ensure that the **Path to custom icon** field is empty before saving this, otherwise your icon will not be saved and you'll see an error message.



- 6. Click on the **Save configuration** button to save your new favorites icon.
- 7. To see your new favicon in action, navigate to the frontend of your store and refresh:

DC Welcome to Commerce X



You may need to do a hard refresh of your website to see the favicon. Pressing Ctrl + F5 usually works in most browsers (or Cmd + R on Mac).

8. That's it! Your new favicon is in place.

Adding social media icons on product pages

With the popularity of social networks such as Twitter, Facebook, Google+, and Pinterest remaining strong, integrating tools to help your customers share your products with their friends can be an excellent way to grow your customer base.

This recipe will show you how to customize your Drupal Commerce store to include social media share buttons on your store's product pages.

Getting started

Log in to your Drupal Commerce administration panel with your administrator account.



If you didn't use Commerce Kickstart to install Drupal Commerce, you will need to.

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How to do it...

To add your chosen social networks to your Commerce product pages, you need to use a module package with Commerce Kickstart:

1. Navigate to **Modules** in your administration panel. In the menu in the left-hand column, you'll see a tab for **Commerce Kickstart** modules. Click on this to view a list of available Commerce Kickstart modules.

Download additional contrib	uted module	s to exte	end Drupal	's fun	ctionality.
Regularly review and install module is updated.	available upo	lates to	maintain a	secu	re and cur
+ Install new module					
All					
Administration	Filter list				
Chaos tool suite		~	Enabled	~	Disabled
Cloud Zoom	Epobled	Name		Vo	rsion
Commerce	Enabled	Name		ve	SION
Commerce (contrib)					
Commerce (shipping)					
Commerce - Payment	_				
Commerce Kickstart					
Connector	-				

2. Scroll down the list of modules until you come to the **Commerce Kickstart Social** module, and enable it by checking the box:

	Commerce Kickstart Social	7.x-2.0- rc4	Social features for Commerce kickstart. Requires: Block (enabled), Connector Action Default Register Form (disabled), Connector (disabled), Features (enabled), Http Client (disabled), Menu (enabled), OAuth (disabled), OAuth Connector (disabled), OAuth2 (disabled), Http Client OAuth (disabled), Chaos tools (enabled), Service links (disabled), Strongarm (enabled),	
	Social		(disabled), Http Client OAuth (disabled), Chaos tools (enabled), Service links (disabled), Strongarm (enabled), Widget Services (disabled)	

3. Click on the **Save configuration** button in the left-hand column to enable the module; it is located under the list of module groupings:

Taxonomy	menu	
Variable		
Views		
Save c	onfigurati	on



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4. If you haven't enabled one or more of the modules required by the Kickstart Commerce Social module, you'll be prompted to enable them on the next screen. Select **Continue**:



5. Enabling the module does two things: it adds a block to your store's footer with links to various social media platforms, and it adds share tools on your product pages. View the frontend of your website and look in the footer, and you will see them as follows:

Company info Service & support					c	onnect with us
Security & privacy Shipping & returns					ſ	Like us on Facebook
					e	Follow Us on Twitter
					P	What We Like on Pinterest
	Astron	PayPal	VISA	AMERICON BUPRESS		

If you can't see these appear, you may need to assign them.

6. By default, these link to Commerce Guys' profiles, so ensuring you are logged in as an administrator, hover over the block and then select the **List links** option from the drop-down menu:



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7. This will present you with a list of the links. Select edit in the **Operations** column:

Menu link	Enabled	Operation	าร
Like us on Facebook		edit	delete
✤ Follow Us on Twitter		edit	delete
What We Like on Pinterest	•	edit	delete

8. You can now edit the URL of your social media profile with the **Path** field and the label for the link with the **Menu link title** field:

Menu link title *	
Like us on Facebook	
The text to be used for this link in the menu.	
Path *	
https://www.facebook.com/commerceguys	
The path for this menu link. This can be an internal Drupal path such as <i>node/add</i> or an external U such as <i>http://drupal.org</i> . Enter <i><front></front></i> to link to the front page. Enter <i><nolink></nolink></i> " to generate non-linkable item, enter <i>"<separator></separator></i> " to generate separator item.	RL
Description	
Shown when hovering over the many link	
Enabled	
Menu links that are not enabled will not be listed in any menu.	
Show as expanded	
If selected and this menu link has children, the menu will always appear expanded.	
Parent link	
<connect us="" with=""></connect>	
The maximum depth for a link and all its children is fixed at 9. Some menu links may not be availabl parents if selecting them would exceed this limit.	e as
Weight	
-50 💌	
Optional. In the menu, the heavier links will sink and the lighter links will be positioned nearer the to	op.
Save Delete	è



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- 9. Click on the **Save** button at the bottom of the screen once you are finished.
- 10. Return to the frontend of your store and navigate to a product page, and you will see the share tools from Facebook, Google+, and Twitter:





In this chapter, we will cover the following topics:

- Adding multiple images to a product
- Creating products with a file upload field
- Creating products with a custom text field
- Creating products with custom attributes
- Creating product categories in Drupal Commerce

Introduction

Drupal Commerce is incredibly flexible, but this flexibility can be overwhelming for beginners when they start adding and customizing products to their store. In the previous chapter, you learned how to add a basic product to your Drupal Commerce store, and now you can begin to customize this product type to suit your needs, from file uploads to additional product images, and beyond.

Adding multiple images to a product

A feature of many e-commerce stores is to display more than one photograph of a product. For example, you may want to display your products from different angles, or display your product on an isolated background and in use. Drupal Commerce Kickstart 2 allows you to add multiple images to your product pages through Drupal's administration panel.

This recipe will guide you through the customization of Drupal Commerce product types so you can add more than one product image per product.

Getting started

Log in as an administrator to your Drupal Commerce store. Navigate to **Products**. This assumes that you have enabled the Commerce Kickstart Menu's module.

kickstart. Reports Products Orders Content Store settings Site settings H

The Product tab displays the list of existing products within your Drupal Commerce store.

How to do it...

Drupal Commerce Kickstart 2 allows you to add multiple images to your product pages through Drupal's administration panel:

1. Select the **Edit** option from the drop-down next to the product you wish to add multiple images to:

Filter by	All product types All statuses All categories All categories	gories 🔻
+ Ad	d product	Search by title or SKU Q
	Title	Operations
•	Test product Sample Category 1	Quick Edit
	Product 1	Delete

 This takes you to the Edit Product display view. Beneath the product display's Title and Body fields, you will see the list of Drupal Commerce products assigned to this product display; again, select the Edit option next to the product you want to add an image to:

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hipping fees 🕨 Edit					
				View	Edit
					:
				Show row v	veights
SKU	Price	Status	Operations		
TEST1	£24.99	Active	Edit Remove		
	SKU TEST1	SKU Price TEST1 £24.99	SKU Price Status TEST1 £24.99 Active	SKU Price Status Operations TEST1 £24.99 Active Edit Remove	Show row v SKU Price Status Operations TEST1 £24.99 Active Edit Remove

3. The previous step will expand the product's details for you. Here, you'll see a block called **Product image**, under which you will see the **Add a new file** form:

duct						Show row weights
nages	SKI	U	Price	Status	Operations	
	TES	5T1	£24.99	Active		
Details						
SKU *	TEST1					
Supply a	unique identifier u	sing letters, numb	ers, hyphens, and une	derscores. Commas ma	ay not be used.	
Price *	24.99	GBP Include	tax in this price	- None -	•	
Status *	• Active •	Disabled				
Add a n	ew file					
Choos	e File shirt-l.pn	Ig	Upload			
Files mus Allowed f	t be less than 2 ME ile types: png gif jpj product	a. g jpeg. Cancel				

4. For each image you add to the product, click on the **Upload** button next to the **Add a new file** field.



- 5. Click on the **Save product** button at the bottom of the screen once you're finished adding multiple product images.
- 6. You can see the multiple images on the frontend of your store now. Simply navigate to a product page for the product that you've just edited.
- You can customize the settings for images in products by navigating to Store settings
 | Product settings | Variation types | Product | Manage fields | Images. Then, click on the Edit button next to the product variation type that you want to edit.
- 8. In particular, you can customize how many images per product are permitted with the **Number of values** field in the **Images field** settings block:

hese settings	apply to the Images field everywhere it is used. Because the field already has data, some settings can no longer be
hanged.	
lumber of	values
9	v lites
Unlimited	pf values users can enter for this field.
2	tion
3 4	
5 6	al files should be stored. Private file storage has significantly more overhead than public files, but allows restricted this field.
7 8	
9	o file chosen Upload

How it works...

Drupal Commerce products are defined by a number of fields, such as the product title, description, and product image(s). By making use of these predefined field types, you can customize Drupal Commerce products to your needs.

Creating products with a file upload field

As you have seen, customizing Drupal Commerce to allow additional fields for your products is relatively straightforward, once you know how. A common feature of websites that sell customized items—from t-shirts to stationery and everything in between—is to allow customers to print their picture or logo on the product, and this recipe covers how to go about achieving this for your Drupal Commerce store.



Getting started

Make sure you're logged in to your Drupal Commerce store as the administrator.

How to do it...

Once you are logged in to your Drupal Commerce store administration panel, follow these steps:

1. Navigate to **Products** | **Variation types**:

Products Orders Cor
Actions
Manage products
Add a product
Settings y update available for your est Categories
Variation types

- 2. From here, you'll be presented with a list of your product types.
- Select the manage fields option in the Operations column to the right for the product type to which you wish to add the file upload field. The following example uses the T-shirt product (Machine name t_shirt_product) type:

Variation types		×
Home ► Administration ► Store settings ► Product settings ► Vari	lation types	
+ Add product variation type Each product display must have one or more product varia variation type. Different product variation types have different fields, use other information.	ations, which is why each product display type has a matching produ d for storing images, attributes such as color and size, as well as any	uct
Name	Operations	
Product (Machine name: product)	edit manage fields manage display delete	



4. Towards the end of the list in the **Manage fields** screen, you will see an option for adding a new field:

- Select a field type -	Â
Customer musfile unformer	
Customer profile reference	
Date	
Date (ISO format)	
Date (Unix timestamp)	
Decimal	
Entity Reference	_
File	Ξ
Float	
Image	
Integer	
Line item reference	
List (float)	
List (integer)	
List (text)	
Long text	
Long text and summary	
Postal address	
Price	-
F .1	-

5. Provide a name for your field in the **Label** text input, and then select the **File** type from the **Type of data to store** field. This will automatically populate the **Form element to edit the data** field to **File**:

÷	Add new field					
	Upload your logo	field_upload_your_logo [Edit]	File	•	File	•
	Label		Type of data to store.		Form e	lement to edit the data.

6. Click on the **Save** button at the bottom of the screen to save your new file upload field. You will now see a **Field settings** screen:

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- 7. You are presented with two options here—**Enable Display field** and **Files displayed by default**—you can ignore both of these settings.
- 8. Finally, to get the field to display on the product pages, you will need to return to the **Edit** tab. Scroll down to the **Add to Cart form settings** option and check the **Include this field on Add to Cart forms for line items of this type** checkbox:



9. Click on the Save settings button once you're ready.

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- Product 1

 £19.14

 Live of lie chosen

 Upload your logo file :

 Choose File No file chosen

 Upload file types: txt.

 Live of lie types: txt.
- 10. If you now view a product of the type—remember, this example used the product (machine name product) type—on the frontend of your Drupal Commerce store, you'll see that the field has been added to the product view pages:

- 11. You can customize the size of files that customers can upload and the types of files that customers can upload under Store settings | Line item types, by clicking on the manage field next to the relevant product type, and then clicking on the edit button next to the file upload field you just created.
- 12. Under the Product settings block, you will see the Allow file extensions field:

Allowed file extensions *
txt
Separate extensions with a space or comma and do not include the leading dot.

13. To allow customers to upload the JPG, PNG and PDF files with their order, you would enter the following in this field:

jpg, jpeg, png, pdf



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Note that you do not need to enter the period before the filename (for example .jpg), but you need to use commas to separate multiple values here.

14. Once you have saved this setting, customers will see the new file types that they're able to upload:



15. Files are saved in the sites/default/files/ directory of your Drupal Commerce installation by default. You can alter the directory to which these files are saved with the **File directory** field when you edit your file upload field:

File directory customer-uploads Optional subdirectory within the upload destination where files will be stored. Do not include preceding or trailing slashes. This field supports tokens.



Remember that the /sites/default/files directory needs to be writable to allow Drupal Commerce to save files there!

16. Adding a value of the customer uploads here would save the uploaded files from this field to the sites/default/files/customer-uploads directory.



Note that you do not need to include slash characters (/ or \) at the beginning or end of this field's value, but if you wanted to save uploaded files in the sites/default/files/customeruploads/another-directory directory, you would enter the value customer-uploads/another-directory, with the slash character in the middle of the value.

17. Finally, Drupal Commerce gives you the flexibility to define the size of the file that customers are able to upload from this field. Look for the **Maximum upload size** field under the **File directory** field, and enter your desired value:

Maximum upl	oad size
1 MB	
Enter a value like " will be limited only	512" (bytes), "80 KB" (kilobytes) or "50 MB" (megabytes) in order to restrict the allowed file size. If left empty the file sizes by PHP's maximum post and file upload sizes (current limit 2 MB).

- 18. Follow the notes under the **Maximum upload size** field on the syntax to add file sizes in different units. Simply do the following:
 - Enter a number without a unit to specify the maximum file upload size in bytes
 - Append KB to your value to specify a value in kilobytes
 - Append MB to your value to specify a value in megabytes
- 19. Click on the **Save settings** button towards the bottom of the screen to save these settings, and you will see the changes reflected on relevant product pages in your store:



That's it! Your products now have the ability for customers to upload a file alongside them.

Creating products with a custom text field

Certain types of products require a comments field to allow customers to specify a particular request alongside their order. For example, you might want customers to specify a gift message for their order, or guidance with the artwork that they're uploading to be printed on one of your products.

By adding a text field to products in Drupal Commerce, you can allow your customers to add their own thoughts or comments to your order.



Getting started

Log in as an administrator to your Drupal Commerce store's admin panel.

How to do it...

Follow these steps to add a new comments field to your product uploads:

1. Navigate to Store settings | Line item types:

Store settings Site se	ttings Help	
Product settings	Advanced store settings	
Categories	Customer profiles	
Variation types ► Line item types ► Produ	Service providers Shipping	
	Taxes	
Promotions Discounts	e. Payment methods	
	Checkout settings	
	Currency settings	
ne	FielLine item types	
	Order settings Line from module Tabel Pricing rules	
	Commerce Search API Line item module quantity fo <mark>rm elen</mark>	ne

- 2. Now select the product type to which you want to add the new text field. This example uses the **Product (Machine name: product)** type, which is created with the default installation of Drupal Commerce. You may want to create a new product type to accommodate this type of product in your store alongside more basic products.
- 3. Click on the manage fields option under the Operations column.
- 4. Now that you're in the **Manage fields** view, you will see an **Add new field** option towards the bottom of the screen. To create the new field, provide a sensible name for it in the **Label** field, and select **Long text** in the **Type of data to store** field.

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Label



5. Click the Save button towards the bottom of the screen to save the new field to this product type. This will take you to the Field settings tab. You'll see a message saying Customer Comments has no field settings, so click on the Edit tab towards the top of your screen:

Type of data to store.

Form element to edit the data.

Customer comments	×
Home ► Administration ► Store settings ► Advanced store settings ► Line item types ► Product ► Manage fields ► Custor	ner comments
Edit Field settings Widget type	Delete
Product settings	
These settings apply only to the Customer comments field when used in the Product type. Label \star	
Customer comments	
Required field	
Help text	

6. Scrolling down, you will see the **Add to Cart form settings** block, which includes a checkbox to **Include this field on Add to Cart forms for line items of this type**.

Add to Cart form settings

Fields attached to product line item types can be included in the Add to Cart form to collect additional information from customers in conjunction with their purchase of particular products.

Image: Include this field on Add to Cart forms for line items of this type.

7. Check this box, and click on the **Save settings** button.



8. If you now return to the frontend of your Drupal Commerce store, you will see that the new field appears on products of the type that you assigned to the preceding field (for example, the **Product (Machine name: product)** product types):

	Product 1
Provide Survey	£19.14
ij	Nunc vulputate ligula a quam. Sed sit amet ipsum eu augue tempor sollicitudin.
COMMER	Customer comments :
L. UPAI	Enter Quantity : 1
	Add to cart 🛒
and the second se	

9. You're done! You have now added a text field to allow customers to add custom comments to products that they're purchasing!

Creating products with custom attributes

In e-commerce websites, it's common to want to add custom attributes to products. For example, if you're setting up Drupal Commerce to sell t-shirts, you may want to give customers a choice over the size of the t-shirts they buy.

This flexibility in Drupal Commerce allows you to add product groups with custom fields, so customers can select their colors, sizes, and other options before ordering their product from you.

Getting started

Log in to your Drupal Commerce website's administration panel, and navigate to **Products** | **Variation types**.



How to do it...

Once you're logged in, follow these steps to create a Drupal Commerce product variation with the attributes that you need:

- The neatest way to manage this new product type with size attributes is to create a new product variation in Drupal Commerce. Click on the Add product variation type button:
- Enter a Name in the field (for consistency it's best to start the name with the word "Product" so you know what basic type of content you are working with in the future), and click on Save and add fields.

Variation types Home ► Administration ► Store settings ► Product :	settings ► Variation types ► Add product variation type
Name *	
Product - t-shirt	Machine name: product_t_shirt [Edit]
The human-readable name of this product variation ty numbers, and spaces. This name must be unique.	$\sin product product product product \sin product p$
\checkmark Default product variations of this type to b	e saved as new revisions when edited.
 Create matching product display type 	
Save product variation type	Save and add fields Cancel

3. You're now shown the **manage fields** tab. Using the **Add new field** form, add a new field with **Type of data to store** set to **Image** to allow you to add product images to this product variation type:

+	Add new field					
	Product t-shirt image	field_product_t_shirt_image [Edit]	Image	•	Image 💌	
	Label		Type of data to store.		Form element to edit the data.	

- 4. Click on the Save button now, and navigate to Products | Categories.
- 5. Click on the **Add categories** button, and enter a suitable name (and description, if you like):

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Categories		×
Home ► Administration ► Store settings ► Product settings ► Categories ► Add categories		
Name *		
T-shirt sizes	Machine name: t_shirt_sizes [Edit]	
Description		
T-shirt sizes for products		
▶Taxonomy menu		
Save		

 Click on the Save button, and then select the edit vocabulary link alongside the new T-shirt sizes taxonomy that you have created. Navigate to the List tab at the top of the screen and click on the Add term button here to add as many attributes as you want for this product type:

More information about text formats <body> </body>					List	Edit	Manage fields	Manage display
More information about text formats code> <dl> <dd></dd></dl>	Name *							
More information about text formats <blockquote> <code> <dl> <dd></dd></dl></code></blockquote>	Medium							
More information about text formats <pre> dblockquote> <code> <dl> <dd></dd></dl></code></pre>	Description							
More information about text formats (? <blockquote> <code> <dl> <dd></dd></dl></code></blockquote>	Medium t-shirts.							
More information about text formats								
More information about text formats () <blockquote> <code> <u > <dl> <dd></dd></dl></u ></code></blockquote>								
More information about text formats <blockquote> <code> <dl> <dd><</dd></dl></code></blockquote>								
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<bookquote> <code> <dl> <dt> <dd></dd></dt></dl></code></bookquote>	Touch the summer of the						More information	about tout formate @
	Text format	ommerce Order Message	•				More information a	about text formats 🕜
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	Allowed HTML t Relations URL path sett	ings (Automatic alias)	te> <blockquo< td=""><td>te> <code> <u< td=""><td> > <0 > < i></td><td><dl> <dt></dt></dl></td><td>More information 4</td><td>about text fo</td></u<></code></td></blockquo<>	te> <code> <u< td=""><td> > <0 > < i></td><td><dl> <dt></dt></dl></td><td>More information 4</td><td>about text fo</td></u<></code>	> <0 > < i>	<dl> <dt></dt></dl>	More information 4	about text fo
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- Once you've done this, navigate back to Store settings | Variation types and click on the manage fields link that corresponds to the new product variation that you created in the previous steps.
- 8. Under the **Add new field** block, enter a suitable label (the example uses **T-shirt size** to differentiate it from other potential product size attributes in the future).
- 9. Select the **Term reference** value for the **Type of the data to store** field, and leave the value Drupal populates for the **Form element to edit the data** field as **Select list**:

🕂 Add new fi	ld				
T-shirt size	field_t_shirt_size [Edit]	Term reference	•	Select list	-
Label		Type of data to store.		Form element to edit the data.	

10. Click on the Save button once again to save this change, and you'll be shown the Field settings tab with the Vocabulary field. Select the T-shirt sizes taxonomy that you just created from this list, and click on the Save field settings button:

These settings apply to	the T-shirt size field everywhere it is used. These s
	to data has been created
	to data bac boop created
tannot be changed ond	te data nas been created.
cannot be changed ond	e data has been created.
tannot be changed ond Vocabulary *	e data has been created.
tannot be changed ond Vocabulary * T-shirt sizes	
Vocabulary * T-shirt sizes	
Vocabulary * T-shirt sizes Product category	e such as deen created.

- 11. On the **Edit** tab, check the **Required field** checkbox to ensure a t-shirt has to be associated with a size.
- 12. In the **Attribute field settings** block, check the **Enable this field to function as an attribute field on Add to Cart forms** field to ensure it's available to customers to select on the frontend of your Drupal Commerce store, and set **Attribute selection widget** to **Select list**:

Attribute field settings
Single value fields attached to products can function as attribute selection fields on Add to Cart forms. When an Add to Cart form contains multiple products, attribute field data can be used to allow customers to select a product based on the values of the field instead of just from a list of product titles. Content of the field to function as an attribute field on Add to Cart forms.
Attribute selection widget
Select list
Radio buttons
The type of element used to select an option if used on an Add to Cart form.



- 13. Click on the Save settings button.
- 14. Your next task is to create a product of this type to test whether your new attribute works, so navigate to **Products** | **Add a product**, and create a product of the variation that you created in earlier steps (**Product t-shirt** was used in the example).
- 15. Add a title to your new product, and then complete the **Add new variation** block beneath this; select the value from the **T-shirt size** drop-down that you created earlier.
- 16. You can alter the price, image, and SKU depending on the attribute you have set in the product variation now, so a small t-shirt might be a different price to a medium t-shirt:

dd new	variation				
Attribut	tes				
T-shirt s	size * Medium		·		
Details					
sku *	TSHIRT-PURPLE	-MEDIUM			
Supply a u	unique identifier us	sing letters,	numbers, hyphens, and underso	cores. Commas may not be used	
Price *	9.99	GBP	Include tax in this price	- None -	•
			Saving prices tax inclusive will by	pass later calculations for the sp	ecified tax.
Status * Variatio	• • Active	Disable	1		
M	shirt-	m.png (9.	62 KB) Remove		



17. Click on the **Save variation** button to save this product, and add another product following the preceding steps:

Product variations Show row weight					Show row weights	
	Product t-shirt image	T-shirt size	SKU	Price	Status	Operations
÷		Medium	TSHIRT-PURPLE-MEDIUM	£9.99	Active	Edit Remove
÷	15	Small	TSHIRT-PURPLE-SMALL	£8.99	Active	Edit Remove
A	dd new variation					

18. Click on the **Save** button at the bottom of the screen to save the products that you've just added, and you can then visit the frontend of your store to see the new product attribute in action.

Purple t-s	shirt
Title:	(
£11.95	lum)
Product variations	:
Select Size :	Medium 🔻
Enter Quantity :	1
Product t-shirt ima	age:
Product t-shirt ima	ige:
T-shirt size	



19. If you change the **Select size** field to **Small** rather than **Medium**, you will see the image and price fields will change to reflect the differences you added between the products:

Purple t-shirt
Title: Purple t-shirt (Small)
£10.75
Product variations:
Select Size : Small 🗸
Enter Quantity : 1
Add to cart 🛒
Product t-shirt image:
T-shirt size
Small



How it works...

Adding a product with custom attributes in Drupal Commerce requires you to follow the following steps:

- Create a new product type to differentiate this type of product from others in your store, adding the field(s) that you need for product attributes (such as color or size)
- Create a taxonomy for each collection of attributes (for example, size, color) that you
 want to be able to assign to your products
- Create products for each combination of attributes and vary the size, SKU, image, and attributes' values as you need

As discussed in *Chapter 1*, *Installing and Configuring Drupal Commerce*, Drupal Commerce treats products as entities rather than nodes. The significance of this is that multiple products can be tied into a single product display, such as in the following example, where each shirt/size combination is its own product with a unique Stock Keeping Unit.

Creating product categories in Drupal Commerce

A common feature of e-commerce websites is their ability to display products arranged by categories. This can be replicated in Drupal Commerce by making use of the inbuilt taxonomy system of Drupal, which can be used to categorize all content on your website (that is, not just your products).

With Drupal Commerce Kickstart 2, categories are built in as a feature, as you would expect in any e-commerce platform, and can allow customers to find the products they are looking for more quickly.

Getting started

Log in to your Drupal Commerce administration panel. If you installed the Drupal Commerce Kickstart demo store, you'll already be able to see some sample categories in your store!

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How to do it...

To add a product category to your Drupal Commerce store, follow these steps:

 Navigate to Products | Categories in your Drupal Commerce administration panel (enable the Commerce Kickstart Menus grouped under Commerce Kickstart in Modules if you can't see this), and click on the Add terms link towards the right of Product category. Give your new vocabulary a name (in the example, it is called Commerce categories):

Product category				×
Home ► Administration ► Site settings ► Advanced settings ► Structure	 Taxonom 	y 🕨 Prod	uct category 🕨 Add t	erm
	List	Edit	Manage fields	Manage display
Name *				
A test product category				
Description				
A sample product category description.				
				11
Text format Commerce Order Message 💌			More information	about text formats 🕜
Allowed HTML tags: <a> <cite> <blockquote> <code> <</code></blockquote></cite>	 <0 > < i>	<dl> <dt></dt></dl>	<dd></dd>	
• Relations				
URL path settings (Automatic alias)				
Generate automatic URL alias				
Uncheck this to create a custom alias below. Configure URL alias patter	erns.			
URL alias				
Optionally specify an alternative URL by which this term can be accessed. won't work.	Use a relativ	e path and	d don't add a trailing s	lash or the URL alias

- 2. If you can't see **Product category** under the **Vocabulary name** column, click on the **Add categories** button at the top of this screen and follow the steps on screen to create one.
- 3. You can also provide a description for your new category to help make managing your store easier in the future.



- 4. The URL path settings field allows you to define the path of your category (if you used Commerce Kickstart, you'll probably have allowed Drupal to automatically generate a URL alias anyway); enter a suitable value relevant to your category's name if you wish to override the default value. You may prefer to use a flat URL structure for your categories (for example, example.com/test-category or example.com/test-category-2), or to have them display under a less generic area of your website, such as example.com/category/test-category. Simply enter the value without trailing or prefixed slashes (for example, category/test-category or just test-category).
- 5. The **Relations** block allows you to select parent terms so you can assign a parent category and have sub categories in your store. For example, you may have a "t-shirts" category, and want "male t-shirts" and "female t-shirts" categories as sub categories of the "t-shirts" category.
- 6. You can also assign a **Weight** value here to change the ordering of the categories:

Relations	
arent terms	
<root> Sample Category 1 Sample Category 2</root>	*
Veight *	T
0	

- 7. Click on **Save**, and you're given the chance to add more categories; add as many as you need.
- 8. That's it! Your categories are ready to go. To assign a product to a category, navigate to **Products** | **Manage products**, and select **Edit** next to a product that you want to assign a category to:

+ Add product		Search by title or SKU Q
	Title	Operations
	Purple t-shirt	Quick Edit 🔺
	Purple t-shirt tests	<u>Edit</u> Delete



9. Towards the bottom of the screen, you'll see the **Product catalog** tab, which allows you to select from the **Product category** drop-down:





Don't see this option when editing a product? You'll need to add a new field for the category of type "term reference" (taxonomy) to your product as you did in the preceding steps.

10. Click on **Save** and you're done! You can now browse your products by category in the frontend of your store.

How it works...

Drupal uses taxonomies—collections of phrases—to help categorize all content types across websites it powers. By using taxonomies to help you create categories for your Drupal Commerce store, you're making the most of it, and can easily create categories listing your products. For more information on taxonomy in Drupal 7, see http://drupal.org/documentation/modules/taxonomy.

You can also use the Views module to create more highly customized categories on your Drupal Commerce stores; see *Chapter 7*, *Theming Drupal Commerce*.

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3 Managing Your Drupal Commerce Store Day-to-day

In this chapter we will cover the fundamentals of managing your Drupal Commerce store. We will be covering the following topics:

- Disabling products from your Drupal Commerce store
- > Displaying and managing orders in your Drupal Commerce store
- Exporting products from Drupal Commerce
- Creating category menus in Drupal Commerce
- ► Extending customer profiles in Drupal Commerce

Introduction

There's more to your Drupal Commerce store than adding your products and customizing its features. There are plenty of tasks you can do on a regular basis to keep your store up to date and manage it as part of your business.
Disabling products from your Drupal Commerce store

There may be times when you need to hide a product from view on your store. There are two ways to hide a product in your Drupal Commerce store:

- 1. Disabling the product display, which is useful if you want to disable an entire group of products (for example, purple t-shirts) either temporarily or permanently from your store.
- 2. Disabling specific products attached to a product display, which is useful if a particular product variation (for example, a large purple t-shirt) is either out of stock or discontinued.

Getting started

Log in to your Drupal Commerce store's administration panel and navigate to **Products** | **Manage Products**.



How to do it...

Now that you've found this, you'll see a list of the products currently in your Drupal Commerce store:

1. To disable a particular product (rather than an entire product variation), click on the **Quick Edit** option in the **Operations** column:



- Chapter 3

ilter by	All product types	•	All statuses	•	All categories	•	
+ Add	l product				Sear	ch by title or SKU	Q
	Title					Operations	
	Purple t-shirt					Ouick Edit	•

2. This displays the product variations as follows, and you can set specific products to **Disabled** in the drop-down menu:

+ Ad	ld product	title or SKU	Q			
	Title				Operations	
	Purple t-shirt				Quick Edit 🔹	
						x
	Purple t-shirt (Medium) Medium	TSHIRT-PURPLE-MEDIUM	9.99	Disabled v Disabled Active	Save	ΕΨ
	Purple t-shirt (Small) Small	TSHIRT-PURPLE-SMALL	8.99	Active -	Save	

- 3. Click on the **Save** button for each product you want to disable. That's it, the product or products you selected will not appear as an option to customers now.
- 4. If you want to disable the whole product display (including all the variations assigned to it), select the **Edit** option from the **Operations** drop-down menu:

Title	Operations
Purple t-shirt	Quick Edit
Purple t-shirt tests	Edit Delete

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5. From here, scroll towards the bottom of the screen and find the **Publishing options** tab, just above the **Save** button:

Product catalog	Published
Menu settings Not in menu	Promoted to front page Sticky at top of lists
Revision information No revision	
URL path settings Automatic alias	
Comment settings ^{Open}	
Authoring information By admin on 2013-02-06 16:32:34 +0000	
Publishing options Not published	
Save Preview	Delete

6. Uncheck the **Published** checkbox to disable the entire product display from view on the frontend of your Drupal Commerce store. If you visit the frontend of your store when logged in as an administrator, you will be able to see the product display and the **View** and **Edit** tabs:

Product - t-shirt <i>Purple t-shirt</i> has been updated.
View Edit
Purple t-shirt
Title: Purple t-shirt (Medium)
f11 95

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7. If you view the product display when not logged in as an administrator, you will see an "access denied" error:

commerce kickstart		Search		Q,
Sample Category 1 Sample Category 2	All Products		Contact	About
ACCESS DENIED				
You are not authorized to access this page.				

8. You can restrict the access of unpublished content via the **Permissions** tab under **People** in Drupal's administration panel.

How it works...

Unpublishing content in Drupal removes it from public view, but allows you to add and edit content as an administrator. This can be particularly useful for preparing new product ranges on your Drupal Commerce store.

SHOW ONLY ITEMS WHERE						
status	not published	-	Filter			
type	Product display	•				

Displaying and managing orders in your Drupal Commerce store

Running an e-commerce website on a day-to-day basis can require a lot of administration work to track orders, but Drupal Commerce makes it easy to view all of your store's orders.

Getting started

Log in to your Drupal Commerce website's administration panel.



How to do it...

Now that you're logged in to your Drupal Commerce store's administration panel, perform the following steps:

1. Navigate to Orders | Manage orders:



2. You'll now see all of the orders made in your Drupal Commerce store:

Orde	rs Adminis	tration 🕨 Orders 🕨	Actions 🕨 Manage of	rders		*
Filter b	y All s	tatuses	•			
Start da	ete E.g.	, 2013-02-18	End o	late	13-02-18	
+ Ad	ld an c	order			Search by	r name, email, order ID ९
	ID	Created	Name/Email	Total	Status	Operations
	1	02/18/2013 - 20:12	Richard Carter	£9.99	Pending	Quick Edit 🔹
	2	02/18/2013 - 20:27	Not Richard Carter	£80.91	Pending	Quick Edit 🔹
1	Bulk	operations		Арр	ly	

3. The **Operations** column provides you with a number of options to see more details. Click on the **Quick Edit** option to see an overview of the order and its status:



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C	ID	Created	Name/Er	mail	Total	Status	Operations	
	1	02/18/2013 - 20:12	Richard (Tarter	£9.99	Pending	Quick Edit 🔻	
							х	
	Title		Unit	_ C)uantity	⇔ Total	Order status	
				-			Pending 🔻	
	Purple t- PURPLE-	shirt (Medium) (TSHIRT MEDIUM)	£9.99) 1		£9.99	Save	
				Order	total	£9.99	Billing information:	
	Order Hist	tory				¢v	United Kingdom	
						_	Shipping	
	Туре	Date	User	Desc	ription			
	Order	02/18/2013 - 20:12	admin	Order	has been c	reated.	United Kingdom	

- 4. If you select **Edit** from the drop-down menu, you will see a more detailed overview of the customer's order, including the products they've ordered and more detailed shipping and billing addresses.
- 5. You're also able to change the **Order status** field, which keeps the customer up to date as to how their order is progressing:

	Completed	
User information Dwned by Anonymous Order history Created 02/18/2013 - 20:12 Updated 02/18/2013 - 20:34	Canceled Canceled Shopping cart Shopping cart Checkout Checkout: Checkout Checkout: Shipping Checkout: Review Checkout: Review Checkout: Complete Pending Pending Processing Completed	ges you are making. This will updates to this order.
Save order Cancel	Completed	

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6. Towards the bottom of this screen, the **Order status** tab allows you to leave a message for other administrators on your store using the **Update log message** field:

Order status Pending	Status Pending
User information	
drupal@richardcarter.co	Update log message
Order history	
Created 09/26/2012 - 13:11 Updated 09/26/2012 - 13:19	
	Provide an explanation of the changes you are making. This will provide a meaningful audit trail for updates to this order.
Save order Cancel	



7. The **Payment** option from the drop-down menu (also accessed at the top of the edit order screen from the **Payment** tab) allows you to view the payment status for the order.

This is particularly useful if you want to process orders over the phone for customers, assuming you have the correct payment methods set up. Simply select the payment method from the drop-down menu and click on the **Add payment** button to progress it:

	v=1 b	Davraget		×
Nome Administration Orders Actions Manage orders Vide	ew	Edit	Payment	History
		Order l	balance	£9.99
Credit / Debit cards, instant banking and Moneybookers ewalle	t 🔻	A	dd payment	



8. And, of course, the **Delete** option will remove this order from your Drupal Commerce store entirely.



Note that deleting transactions here cannot be undone, so be careful!

9. Finally, the **Bulk operations** drop-down menu beneath the list of orders provides a way to change the order status or delete multiple orders at the same time:

		ID	Created	Name/Email	Total	Status	Operations
		1	02/18/2013 - 20:12	Anonymous (not verified)	£9.99	Pending	Quick Edit 🔻
		2	02/18/2013 - 20:27	Anonymous (not verified)	£80.91	Pending	Quick Edit 👻
	t_	Delete	e order	-	Appl	у	
Pov	wered by	Bulk of Delete Set or Set or Set or Set or Set or	operations e order rder status : Cano rder status : Cart rder status : Cheo rder status : Cheo rder status : Cheo	celed skout (checkout) skout (complete) skout (payment)			Proudly built by
	F	Set or Set or Set or Set or Set or	rder status : Cheo rder status : Cheo rder status : Com rder status : Peno rder status : Peno t be less than 2 MB.	skout (řeview) skout (shipping) pleted ling (pending) ling (processing)			commerce guys

Exporting products from Drupal Commerce

There may be times that you need to export your products from Drupal Commerce for use in another system that doesn't yet integrate with it, or simply to export products from your store to import and update them *en masse*.

In this recipe, you'll see how to use Drupal Views to create an export of products within your Drupal Commerce store, which you can then use to either review your product data or import into another system.



Getting started

Exporting products from your store in bulk is not something that Drupal Commerce supports at the time of writing, so you will need to install the Views Data Export module (http://drupal.org/project/views_data_export).

Copy these files into the /sites/all/modules directory of your Drupal Commerce installation (or install through Drupal's control panel), and navigate to **Site Settings** | **Modules** in the administration panel to enable this module:



Note that the requirements of **Views Data Export**, and the **Views** and **Chaos tools** modules, are already installed and enabled as part of your Drupal Commerce store.

How to do it...

Once the module is installed, navigate to Site Settings | Views, and follow these steps:

 Click on the Add new view button to create a view to display all of the products of the Drupal Commerce Product type:

Product export	Machine name: product_export [Edit]	
Description		
Show Commerce Product	of type All sorted by Unsorted	•
Create a page		
Product export		
Path http://richard.peacockcarter.co.uk/	s2/	
product-export		
Display format Unformatted list 💌 of Fields	•	
Items to display 9999		
Use a pager		
Create a menu link		
Include an RSS feed		

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- 2. Set the **Items to display** field to a large number to ensure all of your products are displayed here, and uncheck the **Use a pager** box to turn pagination off. You can also set this value to 0 to show all the available results.
- 3. Once you are done, click on the **Continue & edit** button towards the bottom of the page, and Drupal will take you to the **Displays** screen:

splays			Save	Cancel
Page + Add			Edit View N	ame/Description 🔹
Page details				
Display name: Page				View Page 🔹
TITLE		PAGE SETTINGS	Advanced	
Fitle: Product export		Path: /product-export		
ORMAT		Menu: No menu		
Format: Unformatted list Settings		Access: None		
Show: Fields Settings		HEADER Add		
FIELDS	Add 👻	FOOTER Add		
Commerce Product: Product ID (Pro	oduct ID)	PAGER		
FILTER CRITERIA	Add	Use pager:		
SORT CRITERIA	Add	Display a specified number of items 9999 items		
		More link: No		
Auto preview Preview with contextual filte	ers:			
Update preview	Separa	ate contextual filter values with a "/". For exampl	e, 40/12/10.	

4. Select the **+Add** option towards the top-left corner of the screen to add a new display to the **View** panel:

Displays			
Page	+ Add		
▼ Page	details		
Display	y name: Page		



- Displays Page + Add Attachment ▼Page Block Data export EVA Field TITLE Entity Reference PAGE Title: Facets block Feed Path: FORM Page Men Acces Forma System © HE∕ Show: Fields | Settings **©** FIELDS Add 👻 © FO
- 6. You may now see an error message: **Display "Data export" uses a path but the path is undefined.** as shown in the following screenshot:

Display "Data export" uses a path but the path is undefined.

7. To define the **Path** value, click on the blue forward slash character under the **DATA EXPORT SETTINGS** block:



This will produce a pop-up window that allows you to fill in your desired path for the location of the data export:



5. Click on this button, and you will see another drop-down menu. Select the **Data export** option:

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http://www.example.com/ products/export/csv This view will be displayed by visiting this path on your site. It is recommended that the path be something	Data export: The menu path or URL of this view				
products/export/csv This view will be displayed by visiting this path on your site. It is recommended that the path be something	http://www.example.com/		ŀ		
This view will be displayed by visiting this path on your site. It is recommended that the path be something	products/export/csv				
like "path/%/%feed" or "path/%/%/rss.xml", putting one % in the path for each contextual filter you have defined in the view.	This view will be displayed by visiting this path on your site. It is recommended that the p like "path/%%feed" or "path/%%/%rss.xml", putting one % in the path for each contextu defined in the view.	ath be something al filter you have			
Apply	Apply				

- 8. Enter a relevant path for your data export. The example uses products/export/csv as it will export the products in CSV format.
- 9. Click on the **Apply** button to save the new path.
- 10. You can now select the format you wish to export your products in. You will see the **Format** field in the left-hand column of the screen; the default setting is CSV, but you can change this by clicking the **CSV file** link:

TITLE	
Title: Product export	
FORMAT	
Format: CSV file Settings	
© FIELDS	Add 👻
Commerce Product: Product ID	(Product ID)
© FILTER CRITERIA	Add
© SORT CRITERIA	Add

11. You will now see a pop-up window that contains options for the exported data's format:

Data export: How should this view be styled
CSV file
O DOC file
O TXT file
XLS file
○ XML file
If the style you choose has settings, be sure to click the settings button that will appear next to it in the View summary.
You may also adjust the settings for the currently selected style.
Apply Cancel



12. Select your preferred format here, and click on the Apply button again.



- 13. Finally, click on **Save** to ensure your changes are remembered by Drupal.
- 14. You can now customize the fields that appear in the export; the product IDs will appear by default, which is not particularly useful to you! Click on the **Add** button to the right-hand side of the **Fields** block:

TITLE	
Titler Product export	
FORMAT	
Format: CSV file Settings	
FIELDS	Add 👻
Commerce Product: Product I	D (Product ID)
Ø FILTER CRITERIA	Add
O SORT CRITERIA	Add

- 15. This will display another pop-up window which gives you the opportunity to check the fields you want to appear in your product export.
- 16. Select your preferred fields (for the example export, the **Commerce Line item: Product, Commerce Product: Link, Commerce Product: Price, Commerce Product: Product ID, Commerce Product: Rendered Commerce Product, Content: Product,** and **Field: Image** fields were selected):

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- 17. Now select the **Apply** button, and click on **Save** to save the changes to the **View** pane once the pop-up has closed.
- 18. If you visit the URL you set for the data export display of our view (that is, http://www.example.com/products/export/csv in the example), you will be presented with a CSV file (or whatever format you set in the view) to download that contains the products.
- 19. You may want to alter your Drupal website's roles and permissions settings to prevent anonymous users accessing this information. See http://drupal.org/node/120614 for more information.
- 20. You can set the permissions and roles in Drupal that can access this view by clicking on the **Access** settings below the **Path** value.



How it works...

The Views Data Export module allows you to export data from your Drupal Commerce store in a variety of formats, including the **Comma Separated Variable** (**CSV**) format, Microsoft Excel and Microsoft Word Document formats, **eXtensible Markup Language** (**XML**) format, and in a simple text (.txt) format, all of which may be useful to you if you wish to transfer your store's product inventory to another system beyond the scope of Drupal Commerce.



The module also allows for usage in Drush (the Drupal Shell) once installed, see the project's Drupal.org page for more details: http://drupal.org/project/views_data_export.

Creating category menus in Drupal Commerce

Having products on your store is all very well, but how do your customers find the products in your store? E-commerce websites typically make use of navigation menus to provide an easy way to access the primary categories that products fall in to.

While some customers may find your products easily enough on your Drupal Commerce store, adding navigation menus of your product categories provides another way for customers to find the type of products they are looking for.

Getting ready

Log in to your Drupal Commerce store as an administrator, and navigate to **Products** | **Categories**.



This recipe assumes you have the Commerce Kickstart Menus module enabled.

How to do it...

Start adding your store's category navigation menu by following these steps:

1. Select the Add categories option at the top of the screen that appears:



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Categories	×
Home ► Administration ► Store settings ► Product settings ► Categories	
+ Add categories	

Give the new menu a name, and provide a description to remind you of this category's purpose:

Name *	
Product categories	Machine name: product_categories
[Edit]	
Description	
A list of categories in our store	
0	

2. Expand the **Taxonomy menu** block below this, and select the relevant place in one of your website's existing menus from the **Menu location** block (the main menu is usually a good place to put these):

- Taxonomy menu	
Menu location	
<main menu=""></main>	•
The menu and parent under which t	o insert taxonomy menu items.

- 3. Click on the Save button beneath this block to continue.
- 4. Now navigate to **Store Settings** | **Categories** and select the **list terms** option next to your newly created category grouping (known as **vocabularies** in Drupal).
- 5. Click on the **Add term** button to get started, and add a name and description for the category:

Name *	
A category name	
Description	
A category name	



- 6. The **Relations** block below this allows you to set a category as a child of another category (that is, to make it a sub-category).
- The URL path settings block is set to automatically generate a URL alias for the category, or you can manually overwrite this to generate your own URL for the category with the URL alias field:

 Generate automatic URL alias Uncheck this to create a custom alias below. Configure URL alias patterns. URL alias 	
a-test-category	
Optionally specify an alternative URL by which this term can be accessed. Use a relative path and don't add a alias won't work.	a trailing slash or the URL

- 8. Click on the **Save** button, and add as many categories as you need to by repeating steps 5 9 above.
- 9. You can assign products to a category by following the Creating product categories in Drupal Commerce recipe in Chapter 2, Configuring Products with Drupal Commerce.
- 10. If you now view the frontend of your Drupal Commerce store that customers are able to see, you will see the categories appear in the relevant menu you assigned them to earlier:



How it works...

Categories in Drupal Commerce are created using the Drupal taxonomy feature, and you are simply creating a vocabulary (collection of terms) to use as product categories within your Drupal Commerce store.



Extending customer profiles in Drupal Commerce

Customer profiles group information needed to complete orders in Drupal Commerce are billing information, shipping information, or delivery information. Customer profiles are created at a few points across your Drupal Commerce store as follows:

- When a customer reaches the checkout
- When a customer alters their profile (if the addressbook feature is enabled)
- > When an administrator of the Drupal Commerce site creates a customer profile

The default customer profile contains very little in the way of information, and it may be beneficial to you as store owner to collect more information from your customers by extending your customer profile.

Getting started

Log in to your Drupal store's administration panel, and navigate to **Store** | **Customer profiles**. Click on the **Profile types** tab at the top-right corner of your screen to see a list of existing customer profiles in your store:

Customer profiles				×
Home ► Administration ► Store settings ► Advance	d store settings 🕨 Cust	omer profiles	List	Profile types
+ Add a customer profile Filter by names containing	Apply	Reset		

How to do it...

So, let's customize the customer profile:

- By default, the only customer profile types are billing information and shipping information, and the latter is where you can add a new field to collect customers' telephone numbers.
- 2. Click on the **manage fields** option under the **Operations** column alongside the **Shipping information** profile type.



 Complete the Add new field block, set the Type of data to store field to Text, and give the field a sensible name (the example uses Customer telephone as the value for the Label field):

÷	Add new field				
	Customer telephone	field_customer_telephone [Edit]	Text	•	Text field 🔻
	Label		Type of data to store.		Form element to edit the data.

- 4. Click on the **Save** button to add this field to the customer profile.
- 5. The next screen you will see is the **Field settings** screen, which asks you to provide the maximum length of characters for your new field. Set this to around 40 characters to accommodate reasonable spaces, and country and area dialing codes:

Customer telephone			×
Home ► Administration ► Store settings ► Advanced store settings ► Customer	profiles 🕨 Profile	e types 🕨 Shipping inf	ormation 🕨
Manage fields Customer telephone Field settings			
Edit	Field setti	ngs Widget typ	e Delete
Field settings			
These settings apply to the <i>Customer telephone</i> field everywhere it is used. These database and cannot be changed once data has been created.	settings impact ti	he way that data is stor	ed in the
Maximum length *			
40			
The maximum length of the field in characters.			
Save field settings			

 Click on the Save field settings button to progress, and you are taken to the Edit screen for the field, where you can set whether Customer telephone is a Required field:

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Shipping information settings	
These settings apply only to the Customer telephone field when used in the Shipping information type Label $*$	pe.
Customer telephone	
Required field	
Help text	
Please enter your telephone number (including area code) to help our couriers contact you to organi slot.	ise a delivery

- 7. You're also able to provide a description to help the user in the **Help text** field.
- 8. Click on the **Save settings** button on this screen, and then click on the **Save** button at the bottom of the **Manage fields** screen you are returned to.
- 9. To test that your new field is appearing to customers who are checking out, add a product in your store to the shopping cart, and then checkout. You'll see your new field appear in the **Shipping information** section of the checkout:

BILLING INFORMATION	
Full name *	Richard Carter
Country *	United Kingdom 🔻
Address 1 *	Adamson House
Address 2	Westgate Road
Town (City *	, and the second s
Newcastle upon Tyne	
Country	
Type and Wear	
Postcode *	
NET 1SG	
SHIPPING INFORMATIO	N
👿 My shipping informati	on is the same as my billing information.
Customer telenhone *	441012407159
Please enter your telephone n	umber (including area code) to belo our couriers contact you to organise a delivery slot
· · · · · · · · · · · · · · · · · · ·	
Continue to next ste	or Cancel
Continue to next ste	

10. As you can see, this is a powerful way to extend your customer profiles to collect the information you need from them.



This chapter covers a number of useful modules for Drupal Commerce to improve the utility of your e-commerce website, including:

- ► Allowing multiple shipments per delivery in Drupal Commerce
- Accepting payment by cheque in Drupal Commerce
- > Setting a maximum and minimum order amount in Drupal Commerce
- > Displaying progress steps for checkout in Drupal Commerce
- Automatically assigning an SKU to your products in Drupal Commerce

Introduction

As you have seen, Drupal Commerce is a flexible system, and can be customized to behave as you want it to for a wide variety of e-commerce needs. By adding modules as and when you require them, the core of Drupal Commerce can remain lightweight and flexible for everyone's needs, and yet still retain the flexibility for more comprehensive e-commerce needs.

Allowing multiple shipments per delivery in Drupal Commerce

Sometimes, it's useful to be able to customize your store to allow multiple deliveries per order. This is useful if you don't have all of the items your customer has ordered in stock, but they want the items that you do have in stock (similar to the way Amazon works with deliveries).

Installing the Commerce Delivery module allows your Drupal Commerce store to accept multiple shipments per order.

Getting started

Download the Commerce Delivery module from Drupal.org at http://drupal.org/ project/commerce_delivery, and copy the module file's URL to your clipboard (for example, something like http://ftp.drupal.org/files/projects/commerce_ delivery-7.x-1.0-alpha5.zip).

How to do it...

Now log in to your Drupal Commerce administration panel, and follow these steps:

- 1. Navigate to Site Settings | Modules.
- 2. Click on the Install new module button.
- Paste the URL of the module files that you collected earlier into the Install from a URL field:



- 4. Click on the **Install** button available at the bottom of the screen.
- 5. You'll now see a success screen, with an option to enable the newly added modules:

Update manager	
	Installation was completed successfully.
	commerce_delivery
	 Installed commerce_delivery successfully
	Next steps
	Enable newly added modules Administration pages



- 6. Click on this link, locate your newly installed module, and activate it (don't forget to click on **Save configuration**).
- Now that the module is enabled, you can configure products to use it. Navigate to Products | Variation types and select the product variation type that you want to use by clicking on manage fields.
- 8. Using the Add new field block that is now shown, you can add a new field called Shippable to add a simple "Yes/No" field to your product administration to indicate whether or not the product requires shipping. Give the field a suitable name in the Label field, and then select Boolean for the Type of data to store field, and select Single on/off checkbox for the Form element to edit the data field:

+ Add new field					
Shippable	field_shippable [Edit]	Boolean	•	Single on/off checkbox	•
Label		Type of data to store.		Form element to edit the data.	

9. Click on the **Save** button to save the new **Shippable** field, and you are taken to the **Field settings** panel, where you can label the "on" and "off" values:

Field settings	
These settings apply to the <i>Shippable</i> field everywhere it is used. These settings impact the way once data has been created.	y that data is stored in the database and cannot be changed
On value	
Shippable	
If left empty, "1" will be used.	
Off value	
Not shippable	
If left empty, "0" will be used.	
Save field settings	

- 10. In the preceding screenshot you can see that the **On value** field is set to **Shippable** and the **Off value** field is set to **Not shippable**, to help you identify what the field is for more readily than a "yes" or "no".
- 11. Click on the **Save field** settings button at the bottom of the screen to save these settings, where Drupal Commerce allows you to customize the field further. You can skip this section for the **Shippable** field as everything you will need is already set.
- 12. You can now customize your delivery options by navigating to **Store settings** | **Delivery settings** from the list. You may need to run update.php to see this appear in your menu options.



13. Here you will see the **Shippable item field** dropdown, where you can tell Drupal Commerce's Delivery module which field defines whether or not the product is shippable. Select the relevant field from the dropdown if the wrong one has been selected.

 Shippable item field

 field_shippable

 Select the boolean field identifying shippable skus. Every time a new field is selected do not forget to update the affected views: deliveries by order and delivery view. Clearing the cache should be enough if views has not been customized.

- 14. The module has a reasonable guess and selects it as default if you've named your field Shipable or Shippable. The **Delivery status options** field allows you to specify delivery statuses that you want to use in your store. By default, there are five statuses defined:
 - **new:** For newly created orders without a delivery status
 - D pending: The delivery status is awaiting an update
 - **delivered**: This order has been delivered
 - on hold: The delivery has been put on hold
 - cancelled: This delivery has been canceled (perhaps because the customer canceled the order)
- 15. You can specify your own delivery statues by using the following format:

ID|label

In the preceding format, ID is the ID of the option that you want (a number unique to this list), and label is one or more words that describe your delivery status option. You can also set the **Delivery default status** to define which value is the usual value for the delivery status:



16. Once you have finished configuring the module's options, you can click on the Save configuration button. If you now go and view orders (Orders | Manage orders), you will see that Deliveries now appears as an option in the Operations column for orders:



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+ Ad	ld an c	order			Search by	name, email, order ID ्
	ID	Created	Name/Email	Total	Status	Operations
	1	02/18/2013 - 20:12	Anonymous (not verified)	£9.99	Pending	Quick Edit 🔺 Edit
	2	02/18/2013 - 20:27	Anonymous (not verified)	£80.91	Pending	Deliveries Payment Delete
	3	02/19/2013 - 19:11	admin richard@peacockcarter.co.uk	£74.15	Checkout: Checkout	Quick Edit 🝷

How it works...

The Commerce Delivery module extends Drupal Commerce to provide you with a more comprehensive delivery system by working on top of Drupal Commerce's framework and using rules to trigger its use.

Accepting payment by cheque in Drupal Commerce

Even in this modern age with systems such as PayPal, Authorize.net, and other payment providers who make online payment simple, some online stores may want to accept cheques as payment for their orders. Typically, orders paid for by cheque are only dispatched once the cheque has cleared in the store's bank account, but some customers may find it useful that you accept cheques in addition to debit and credit cards despite the lengthened sales process.

This recipe guides you through the installation process of the Commerce Cheque module, which allows your Drupal Commerce store to accept cheques as a payment method.

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Getting started

Download the Commerce Cheque module from Drupal.org at http://drupal.org/project/commerce_cheque and install the module. You can follow the instructions for installing a module in the previous chapter.

How to do it...

Once the Commerce Cheque module is installed, follow these steps to configure payment by cheque as a payment method on your Drupal Commerce store:

- 1. Once you have installed the module, check whether your new payment method has been fully enabled. Go to the frontend of your Drupal Commerce store, add a product to your basket, and then click on the **Checkout** button.
- 2. At the Shopping Cart screen, proceed by using the Checkout button again:

SHOPPING CART				
	PRICE	QUANTITY	REMOVE	TOTAL
SKU: sample2 £74.15 Status: Active View product	£62.00	2	Remove	£124.00
			Subtotal	£124.00
			Order total	£124.00
			Update c	art Checkout

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3. You will now see your store's checkout view: fill in the **Billing information** panel, and then click on the **Continue to next step** button at the bottom of the screen to progress:

BILLING INFORMATION	
Full name *	Richard Carter
Country *	United Kingdom 🔻
Address 1 *	Adamson House
Address	Adamson House
Address 2	Westgate Road
Town/City *	
Newcastle upon Tyne	
County	
Tyne and Wear	
Postcode *	
NE1 1SG	
SHIPPING INFORMATION	
My shipping information	n is the same as my billing information.
Customer telephone *	441012407159
	44191340/150
Please enter your telephone nur	nber (including area code) to help our couriers contact you to organise a delivery slot.
Continue to next step	

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4. You'll now be presented with the **Review order** screen to confirm your order details, as well as payment options for your order, where you will see that the **Cheque** option is now enabled:

Cheque Credit / Debit cards (Moneybookers enterprise)	PAY	MENT
Credit / Debit cards (Moneybookers enterprise)	- C	
	0 Ci	redue redit / Debit cards (Moneybookers enterprise)

- 5. That's it! You can now accept payment by cheque on your e-commerce store.
- 6. You can customize the label that appears for the customer in the preceding screen by going to **Store settings** | **Payment methods**.

The Commerce Cart Expiration module

There may be needs in your store to have a shopping cart's contents expire after a given time to help you remove abandoned carts and luckily for you, there's a module for Drupal Commerce that can provide this functionality.

By installing the Commerce Cart Expiration module, you can expand your Drupal Commerce store to have your customers' shopping carts expire after a set period of inactivity.

Getting started

Download the Commerce Cart Expiration module from Drupal.org at http://drupal.org/project/commerce cart expiration and install it.

How to do it...

Once the Commerce Cart Expiration module is installed, follow these steps:

 Next, you need to configure your store's rules to allow this module to function. Navigate to Site settings | Configuration, and under the Workflow heading, click on Rules:

WORKFLOW
• Rules Manage reaction rules and rule components.



- 2. If you scroll to the bottom of the list of **Active** rules, you will now see a **Delete expired carts** option.
- 3. Click on the **edit** option in the **Operations** column to edit this rule, and you're presented with a screen to edit the **Delete expired carts** reaction rule.
- 4. Edit the **Remove all expired cart orders** element under the **Actions** heading by clicking on the **edit** link in the **Operations** column:

Actions Show row we			
Elements	Operations		
 Remove all expired cart orders Parameter: Cart expiration interval: 2 days, Number of shopping carts to process: 0 	edit delete		
+ Add action + Add loop			

- 5. Here, you can change the period of time after which the carts' contents will expire in the **Cart expiration interval** field.
- 6. Set the carts to expire after they haven't been checked out after 7 days:

Value* 7 days • 7 days • Switch to data sele minutes hours - 0 0	Timo copo until	chooping cart	ts are considered expired
Value * 7 days * Switch to data sele minutes hours months years * Number of shopping carts to process Number of shopping carts to process at a time. Useful for sites having a considerable amount of orders. Set to 0 for unlimited. Value * 0	Time span unui	shopping can	is are considered expired.
7 days • Switch to data sele seconds minutes hours • days • days • years • Number of shopping carts to process at a time. Useful for sites having a considerable amount of orders. Set to 0 for unlimited. Value * 0	Value *		
Switch to data sele seconds minutes hours days months years Number of shopping carts to process Number of shopping carts to process at a time. Useful for sites having a considerable amount of orders. Set to 0 for unlimited. Value * 0	7	days	*
days months years Number of shopping carts to process Number of shopping carts to process at a time. Useful for sites having a considerable amount of orders. Set to 0 for unlimited. Value * 0	Switch to data sele	seconds minutes hours	_
Mumber of shopping carts to process Number of shopping carts to process at a time. Useful for sites having a considerable amount of orders. Set to 0 for unlimited. Value * 0		days	
Number of shopping carts to process Number of shopping carts to process at a time. Useful for sites having a considerable amount of orders. Set to 0 for unlimited. Value * 0		months	
Number of shopping carts to process at a time. Useful for sites having a considerable amount of orders. Set to 0 for unlimited. Value * 0	Number of sh	years	to process
Number of shopping carts to process at a time. Useful for sites having a considerable amount of orders. Set to 0 for unlimited. Value * 0	riamber of sh	opping cares	
Value * 0	Number of shop unlimited.	oping carts to	process at a time. Useful for sites having a considerable amount of orders. Set to 0 for
0	Value *		
	0		

7. The next field is **Number of shopping carts to process**, which controls how many abandoned carts' are removed:

Number of shopping carts to process	
Number of shopping carts to process at a time. Useful for sites having a consider unlimited. Value *	able amount of orders. Set to 0 for
100	
Switch to data selection	



8. Click on the Save button to retain your settings.



It may be wise to set a number other than zero in the **Number of shopping carts to process** (which will remove infinite carts), if your site is likely to have many unprocessed orders.

- 9. Shopping carts abandoned by customers within the time limit you set will now be removed when Drupal's cron runs.
- 10. You can trigger Drupal's cron yourself by navigating to **Site settings** | **Site reports** | **Status report**.

 Cron maintenance tasks
 Last run 48 min 54 sec ago

 You can run cron manually.
 To run cron from outside the site, go to http://www.example.com/cron.php?cron_key=kpwV7FZHv7KMdRhLzZfAgOO

11. Clicking on the **run cron manually** link will trigger the cron, and empty any carts abandoned in the last 7 days.



For more information about Drupal 7 and cron, see http://drupal.org/cron.

Setting a maximum and minimum order amount in Drupal Commerce

For certain types of e-commerce store, there may be a minimum or maximum order amount to make the store viable to run for the business. Drupal's **Commerce Minimum & Maximum Order Amount** module provides the functionality to allow you to set a minimum and/or maximum order amount, and this recipe will guide you through how to configure it for your Drupal Commerce store.

Getting started

Download the **Commerce Minimum & Maximum Order Amount** module from Drupal.org (http://drupal.org/project/commerce_moa) and install it on your Drupal Commerce store.



How to do it...

Once installed, you can enable and configure the **Commerce Minimum & Maximum Order Amount** module through these steps:

1. Navigate to **Store settings** | **Minimum & Maximum Order Amount**, which should now appear in this screen's list of options:



2. Click on the Minimum & Maximum Order Amount option to see the module's settings:

Minimum & Maximum Order Amount				
Home Administration Store settings Minimum & Maximum Order Amount				
Minimum Onder Area				
Winimum Order Amo	unt			
100	GBP			
The default minimum order	amount. Ex: 11.99 if set 0 then dislable			
Maximum Order Amo	ount			
0	GBP			
The default maximum order amount. Ex: 11.99 if set 0 then dislable				
Minimum Order Quantity				
0				
The default minimum order quantity. Ex: 2 if set 0 then disable				
 Currency format 				
The default currency format if checked: 10.00 USD, unchecked: \$10.00				
Save configuratio	n			



- 3. As you can see, the module presents you with a number of options:
 - The Minimum Order Amount field allows you to set a minimum total order amount before customers are allowed to check out (leave this value as 0, if you don't want to set a minimum order amount).
 - □ The **Maximum Order Amount** field allows you to set a maximum total order amount which, if exceeded, will prevent customers from checking out.
 - The Minimum Order Quantity field allows you to define a minimum quantity before customers can check out, as opposed to a minimum value of an order. So, for example, if you had this field set to 2 and the Minimum Order Amount field set to 100, customers would not be able to check out from your store unless their total order value was \$100 or above and they had more than two items in their shopping cart.
 - □ Finally, the **Currency format** field allows you to specify how the currency appears: as a symbol (for example, £ or \$), or as the currency's abbreviation (for example, GBP or USD).
- 4. Save your settings with the **Save configuration** button and you can see the module in action by returning to the customer-facing frontend of your Drupal Commerce store.
- 5. Add items that total less than the amount you set in the **Minimum Order Amount** field in the previous step, and attempt to check out by clicking on the **Checkout** link. You will now see an error message appear that informs the user of the minimum order amount:

kickstart			Search	Q
Sample Category 1 Sa	ample Category 2 All Pr	roducts	Со	ntact About
This store requires n	ninimum order of 100.00 GE	3P.		
SHOPPING CF	PRICE	QUANTITY	REMOVE	TOTAL
SKU: sample2 £62.00 Status: Active View product	£62.00	1	Remove	£62.00
			Subtotal	£62.00
			Order total	£62.00
			Update o	art Checkout



That's it! You have configured your Drupal Commerce store to accept a minimum (or maximum) order amount.

Displaying progress steps for checkout in Drupal Commerce

One of the many user interface patterns that appear on e-commerce websites is to show your customers how far they are from the checkout process, to help them manage their expectations and orientate them in your website's checkout page. With the help of the **Commerce Checkout Progress** module, you can add this feature to improve your website's experience for customers.

This recipe will take you through configuring the module to show your customers where they are in the checkout process to help them manage their expectations about how long it may take to complete their purchase.

Getting started

Download the Commerce Checkout Progress module from Drupal.org at http://drupal.org/project/commerce_checkout_progress and install the module on your Drupal Commerce store.

How to do it...

Once you have installed the Commerce Checkout Progress module, follow these steps:

- 1. Enabling the module will expose a new Drupal block that you can position within your website's theme, so navigate to **Site settings** | **Blocks**.
- 2. By default, enabling the Commerce Checkout module will position the **Checkout progress indication** block in the **Breadcrumb** region of your Drupal website, above the **Current search: Search results** block:

Breadcrumb		
+ Checkout progress indication	Breadcrumb	configure
+ Current search: Search results	Breadcrumb	configure

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3. If you want to position the **Checkout progress indication** block elsewhere, select another region to assign the block to from the drop-down list (the example moves the block to the **Content** region):

Breadcrumb		
+ Checkout progress indication	Content	configure
+ Current search: Search results	Content User Bar First User Bar Second Branding	configure
Sidebar First	Menu Breadcrumb Sidebar First	
\oplus $\;$ Facet API: Search service: Product display : Product » Price » Amount (decimal)	Sidebar Second Header First Header Second Profece First	configure
+ Facet API: Search service: Product display : Product category	Preface Second Preface Third Postscript First	configure
Sidebar Second	Postscript Second Postscript Third Footer First Footer Second	
No blocks in this region	Footer Third 🔻	

- 4. Click on the **Save blocks** button towards the bottom of the blocks list to save your new configuration.
- 5. If you now return to the customer-facing frontend of your Drupal Commerce store, you will see that the checkout progression indicator appears:

CHECKOUT				
Checkout Shipping	Review order	Checkout complete		
SHOPPING CART CONTENTS				
PRODUCT	PRICE	QUANTITY		TOTAL
Sample product 2	£62.00	12		£744.00
			Order total	£744.00

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- 6. At the moment, however, this block only appears on the primary checkout page that you can see in the preceding screenshot. To display the block on all of the cart pages, navigate to **Site settings** | **Blocks** again in your Drupal administration interface.
- 7. Select the **configure** option to the right of the **Checkout progress indication** block:

	1	Show row weights
Block	Region	Operations
Content	1	
+ Search sorts	Content •	configure
+ Checkout progress indication	Content	configure
+ Main page content	Content 🔻	configure

8. On the next screen, you are presented with **Visibility settings** beneath the **Region settings** block. You can click on the relevant checkboxes to enable this block to appear on the different checkout pages in your Drupal Commerce store:

Visibility settings	
Pages Not restricted	Show block on specific pages
Content types Not restricted	Checkout
Roles Not restricted	 Shipping Review order
Users Not customizable	 Payment Checkout complete
	Select the pages on which you want to show the checkout progress indication. Leaving all checkboxes unselected will show the progress on all checkout pages.

9. Click on the **Save block** button, and that's it. Your customers can now see their progress through your checkout.


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10. You can also customize the way the steps are displayed by clicking on the configure option next to the module in Site settings | Modules. You can change whether the cart steps are shown as a Unordered list or an Ordered list, whether to Render list as links (unchecking this will produce plain text rather than linked steps), and whether to Include a Cart link as the first step in the progress bar:



How it works...

The **Commerce Checkout Progress** module creates a block that is displayed in Commerce's checkout pages to display the progress of a customer's checkout to them. You can customize this module by deciding which region in your enabled Drupal theme this block appears in through **Site settings** | **Blocks interface**.

Automatically assigning an SKU to your products in Drupal Commerce

As you will have seen by now, creating products in Drupal Commerce requires that you add a **Stock Keeping Unit** (**SKU**) to products to help you track and reference products within Drupal Commerce. This could get tedious if you're adding large amounts of products, which is where the AutoSKU module for Drupal Commerce comes in handy.

This recipe explains how to configure the AutoSKU module for Drupal Commerce.

Getting started

Download the Commerce AutoSKU module from Drupal.org at http://drupal.org/ project/commerce autosku and install the files on your Drupal Commerce store.

How to do it...

Once you have installed the AutoSKU module for your store:

- 1. Go to **Products** | **Variation types** and select the **edit** link next to the product variation for which you want to enable the automatically generated SKUs.
- 2. At the bottom of the screen, you will now see a new option has appeared called **Automatically Generate SKU**. Enable this by clicking on the checkbox alongside it:

Name *	
Product	
The human-readable name of this product variatio unique.	n type. It is recommended that this name begin with
Default product variations of this type to	be saved as new revisions when edited.
Automatically Generate SKU	

- 3. When you enable the Automatically Generate SKU checkbox, the AutoSKU parameters options will appear with the SKU Pattern field, which enables you to automatically generate SKUs for your products that are created by patterns, which are controlled by Drupal tokens provided by Drupal Commerce. Using these tokens can give you great flexibility in generating your SKUs, but here are a few useful combinations that you may want to use:
 - To generate a simple automatic SKU for your products, enter something similar to MYSTORE- [commerce-product:product-id], which would produce a result of MYSTORE-99 for the product with an ID of 99
 - To generate a more complex SKU that takes into account the product type and name of the product, you could use something such as: [commerce-product:type] - [commerce-product:title]

ISIORE- [commerce-produ	ict:product-id]	
		Click a token to insert it into the field you've last clicked.
Name	Token	Description
Current date		Tokens related to the current date and time.
Current page		Tokens related to the current page request.
Current user		Tokens related to the currently logged in user.
Products		Tokens related to individual products.
Random		Tokens related to random data.
Site information		Tokens for site-wide settings and other global information.

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- 4. Once you're happy with your SKU pattern, click on the **Save product variation type** button at the bottom of the screen.
- 5. That's it! SKUs will be automatically be created for products of this type in your store now.
- 6. To test whether the module is functioning as you intended, navigate to **Products** | **Add a new product** and try adding a new product (of the type you just edited).
- 7. You'll see that the **SKU** field is now hidden, but the **Title**, **Image**, **Price**, **Status** and **Category** fields are all there:

itle *							
Testing Au	utoSKU						
field replac	cing node title.						
dd new	variation						
Attributes							
T-shirt s	size * Small		¥				
Details							
Price *	9.99	GBP	Status *	 Active O Disabled 			
Variatio	on image						
Choos	e File No file ch	iosen		Upload			
Files must Allowed fi	t be less than 2 MB. le types: <mark>png gif jpg</mark>	jpeg.					
Sav	ve variation						

- 8. Save the product using the **Save variation** button, and then the **Save** button towards the bottom of the screen to finalize your new product.
- 9. If you navigate to **Products** | **Manage products**, you'll see that the newly created product has had its SKU generated for you:

+ Add product Filter by SKUs containing	Apply	Reset			
SKU 🔺	Title	Туре	Price	Status	Operations
MYSTORE-9	Testing AutoSKU (Small)	Product	£9.99	Active	edit delete



This chapter guides you through integrating some of the most popular payment gateways with your Drupal Commerce website, as well as setting up shipping settings for your store. We will cover the following topics in this chapter:

- Integrating Authorize.net with Drupal Commerce
- ▶ Integrating PayPal Website Payments Standard with Drupal Commerce
- Integrating PayPal Website Payments Pro with Drupal Commerce
- ▶ Integrating SagePay Form Integration with Drupal Commerce
- ► Setting up VAT or sales tax in Drupal Commerce

Introduction

One of the most fundamental features of an e-commerce website is to accept payment from your customers, and to this end, Drupal Commerce integrates with many of the most well-known and used payment gateways in the world.

Integrating Authorize.net with Drupal Commerce

Authorize.net is an American-based payment gateway, and allows you to take payments via credit and debit cards commonly available in North America, as well as worldwide.

Getting started

Download the Drupal Commerce Authorize.net module from Drupal.org at http://drupal.org/project/commerce_authnet. Install the module to your Drupal Commerce store.

How to do it...

Once you have installed the Drupal Commerce Authorize.net module perform these steps:

1. Now navigate to Store settings | Advanced store settings | Payment methods:



- You will now be presented with two lists. At the top is the Enabled payment method rules list, and underneath this is the Disabled payment method rules list, which now contains the Authorize.Net Aim - Credit Card option.
- 3. Click on the edit link under the Operations column:



Disabled payment method rules									
Name	Event	Status	Opera	ations					
Hosted PCI - Credit Card Machine name: commerce_payment_hosted_pci, Weight: 0	Select available payment methods for an order	Default	edit	translate	enable	clone	export		
Authorize.Net AIM - Credit Card Machine name: commerce_payment_authnet_aim, Weight: 0	Select available payment methods for an order	Default	<u>edit</u>	translate	enable	clone	export		

4. You will now see the **Events**, **Conditions**, and **Actions** options for the Authorize.Net payment method. Here too, click on the **edit** link under the **Operations** column:

Actions s					
	Elements	Operations			
	Enable payment method: Authorize.Net AIM - Credit Card Parameter: Order: [commerce-order]	edit delete			
	+ Add action + Add loop				

5. This provides further options to enable the Authorize.Net gateway. Here you will need your Authorize.Net payment gateway API and transaction key to finish the configuration. If you need an Authorize.Net account, you can register for one through http://commerceguys.com/authorize-net-reseller which helps support the development of Drupal Commerce.



Payment settings	
API Login ID *	
ENTER AUTHORIZE.NET API KEY HERE	
Your API Login ID is different from the username you use to login to your Authorize.N <i>Transaction Key</i> link to find your API Login ID. If you are using a new Authorize.Net acc	let account. Once you login, browse to your Account tab and click the API Login ID and count, you may still need to generate an ID.
Transaction Key *	
YOUR TRANSACTION KEY HERE	
Your Transaction Key can be found on the same screen as your API Login ID. Howeve form to see your Transaction Key.	r, it will not be readily displayed. You must answer your security question and submit a

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- For testing purposes, leave the Transaction mode section set to Test transactions in a live account to test with a normal Authorize.Net account, or to Developer test account transactions to test the transactions without a normal Authorize. Net account.
- 7. Once you're ready to launch your website, be sure to set this value to **Live transactions in a live account**:



8. The option that follows, **Default credit card transaction type**, specifies which authorization type Authorize.Net will use:

De	Default credit card transaction type				
۲	Authorization and capture				
\bigcirc	Authorization only (requires manual or automated capture after checkout)				
The	default will be used to process transactions during checkout.				

- 9. The default **Authorization and capture** option simply takes the amount that is due and, if the transaction is approved by Authorize.Net, it is then submitted for payment (**settlement** in the vocabulary of Authorize.Net).
- 10. The Authorization only option essentially checks whether the payment details are valid, but does not attempt to submit them for payment, so you will largely want to leave this setting as is. In some countries, you cannot legally capture the funds until you have shipped the order, so in these cases you would want to use Authorization only.



For more information on these, see http://www.authorize. net/support/merchant/Submitting_Transactions/ Credit_Card_Transaction_Types.htm.

11. The next options allow you to limit the type of credit cards your website accepts through Authorize.Net with the **Limit accepted credit cards to the following types** field (leaving all of these unchecked allows your Authorize.Net payment method to accept any of these credit card types):





Limit accepted credit cards to the following types
VISa
MasterCard
American Express
Discover Card
Diners Club
Diners Club International
Carte Blanche
јсв
Maestro
Visa Electron
Laser
Solo
Switch
If you want to limit acceptable card types, you should only select those supported by your merchant accoun If none are checked, any credit card type will be accepted.

12. Below this, you will see another option (**Tell Authorize.net to e-mail the customer a receipt based on your account settings**), which e-mails the customer a payment receipt upon successful payment via Authorize.Net based on your Authorize.Net account settings:



- Logging the following messages for debugging settings allows you to log request and/ or response messages from the Authorize.Net API. Look in the **Reports Site settings** | Advanced settings | Reports | Recent log messages for the log.
- 14. Click on the **Save** button to retain your settings for the Authorize.Net payment gateway.
- 15. To finish enabling the payment method, return to **Store settings** | **Configuration Advanced settings** | **Payment methods**, and click on **enable** in the **Operations** column.
- 16. This will produce a message dialogue that will ask you if you are sure you want to enable this payment gateway; click on the **Confirm** button to confirm:

Are you sure you want to enable the reaction rule Authorize.Net AIM - Credit Card?							
Home Administration Store settings Advanced store settings Payment methods Editing reaction rule "Authorize.Net AIM - Credit Card"							
Confirm Cancel							
Powered by Drupal Commerce							



17. That's it! Authorize.Net is enabled for your Drupal Commerce store. You may still need to configure your Authorize.Net account, though.



When using Authorize.Net as your payment gateway, you will need to ensure that the **Payment** pane of the checkout process is *after* the **Billing Information** pane, so that Authorize.Net can process the payment properly.

Integrating PayPal Website Payments Standard with Drupal Commerce

PayPal is one of the world's most popular payment solutions, so it should come as no surprise that Drupal Commerce has a well developed and supported module to integrate with it. There are two available PayPal payment methods supported with the Commerce PayPal module: **Website Payments Standard (WPS)** and **Website Payments Pro (WPP)**.

PayPal Website Payments Standard is in the process of being renamed to PayPal Payments Standard, so you may see some discrepancy in documentation and module names.

The benefit of this method is that there is no monthly cost; you simply pay per transaction for processing the payment. So, let's get PayPal Website Payments Standard integrated with your Drupal Commerce site.

Getting started

Download the Drupal Commerce PayPal module from Drupal.org at http://drupal. org/project/commerce paypal and install it on your Drupal Commerce installation.

How to do it...

Once the module is installed, log in as an administrator on your Drupal Commerce website and perform the following steps:

1. Navigate to **Store settings** | **Configuration Advanced store settings** | **Payment methods** to see the list of payment methods currently available in your store:

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PayPal WPS Machine name: commerce_payment_paypal_wps, Weight: 0	Select available payment methods for an order	Default	edit	translate	enable	clone	export
Machine name: commerce_payment_paypal_wps, Weight: 0	payment methods for an order	Default	edit	translate	enable	clone	export

- 2. You will see the **PayPal WPS payment method rule** list displayed under **Disabled payment method rules**.
- 3. Select the edit link in the Operations column to edit this payment method.
- 4. You will now see the **Enable payment method: PayPal WPS** link listed under **Actions**. Click on the **edit** link under the **Operations** tab.
- The next screen presents options to help you configure PayPal Website Payments Standard method for your Drupal Commerce store. Look for the Payment Settings block.
- In this block, you will see the PayPal e-mail address field. Enter your PayPal account e-mail address. This is a required field, as payments can't be processed without your PayPal account's e-mail address.





Need a PayPal account? Sign up at http://www.paypal.com before continuing.

7. The next field is the **Default currency** setting; by default, this is set to **USD**, but you may find it preferable to change it to your own PayPal account's default currency:



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8. The next option is the **Allow transactions to use any currency in the options list above** field. Checking this box allows payments to be made to your PayPal account in all currencies supported by PayPal. If unchecked, payments made in other currencies are converted to your default currency.



9. The **PayPal login page language/locale** field allows you to specify the language and region displayed to users when they are taken to PayPal to make payment to you. Set this value to your country to better suit your customers:

PayPal login page language / locale	
United Kingdom	•

10. The **PayPal server** setting allows you to specify whether transactions are live—payments are really made—or whether they are test transactions. By default, this value is set to **Sandbox - use for testing, requires a PayPal Sandbox account**, and needs to be changed to **Live - use for processing real transactions**:

PayPal server		
\bigcirc	Sandbox - use for testing, requires a PayPal Sandbox account	
۲	Live - use for processing real transactions	



You can sign up for a PayPal sandbox account for testing transactions on your store at https://developer.paypal.com.

11. The Payment action setting provides options to process the payment immediately, or simply to authorize payment for the amount to be paid later to you. Most stores will use the Sale - authorize and capture the funds at the time the payment is processed value, or simply authorize the payment amount to be collected later.

Payment action

- Sale authorize and capture the funds at the time the payment is processed
- O Authorization reserve funds on the card to be captured later through your PayPal account



12. The IPN logging setting which appears next tells the module whether to log Instant Payment Notifications (IPNs). By default for your live store, leave the value as Log notifications during IPN validation and processing, but you may find the Log notifications with the full IPN during validation and processing (used for debugging) setting useful to aid in debugging any problems with PayPal.



Log notifications during IPN validation and processing.

Log notifications with the full IPN during validation and processing (used for debugging).

The **Show a message on the checkout form when PayPal WPS...** option displays a message telling the customer to continue with checkout to complete payment via PayPal:

Show a message on the checkout form when PayPal WPS is selected telling the customer to "Continue with checkout to complete payment via PayPal."

13. Finally, the **Create a billing profile...** option generates a customer billing profile in Drupal Commerce with the customer's name and country on it if checked, which may be useful if you need to use customer names on orders you dispatch:

Create a billing profile based on name and country data in the IPN for any order that does not have one yet. This is most useful for sites that do not collect billing information locally but still want to have customer names on orders.

14. Click on the Save button to retain your new PayPal settings. Navigate back to Store settings | Advanced store settings | Payment methods and click on the enable button alongside the PayPal WPS payment method to finish enabling it on your Drupal Commerce store:

PayPal WPS Machine name: commerce_payment_paypal_wps, Weight: 0	Select available payment methods for an order	Overridden	edit	translate	<u>enable</u>	clone	revert	export
---	--	------------	------	-----------	---------------	-------	--------	--------



Click on the **Confirm** button in the dialogue that now appears:

Are you sure you want to enable the <i>reaction rule PayPal WPS</i> ?		
Home Administration Store settings Advanced store settings Payment methods Editing reaction rule "PayPal WPS"		
Confirm Cancel		
Powered by Drupal Commerce		

15. If you now progress through the checkout of your store, you will see that PayPal appears as a payment option once you come to review your order:

💿 Credit / Debit cards (Mo	oneybookers enterprise)
💿 Credit / Debit cards, ins	tant banking and Moneybookers ewallet
💿 Cheque	
PayPar PayPal - pay secu	rely without sharing your financial information
Includes: 📷	AMEX DISCOVER CHECK
(Continue with checkout to	o complete payment via PayPal.)

16. That's it! PayPal Website Payments Standard is enabled on your Drupal Commerce store.

Integrating PayPal Website Payments Pro with Drupal Commerce

The alternative to using the PayPal Website Payments Standard payment method is to use PayPal Website Payments Pro (also known as PayPal Website Payments Advanced). WPP doesn't require your customers to leave your website to make payments. They can pay with PayPal while on your website. As a more advanced service, you will need to have a PayPal Business Account.



You can enable both Website Payments Pro and Website Payments Standard in your store to enable customers to chose their preferred payment method.

Getting started

Download the Drupal Commerce PayPal module from Drupal.org at http://drupal.org/project/commerce_paypal and install the module
on your Drupal Commerce store.

If you need to sign up to PayPal for a business account to make use of Website Payments Pro, do so at http://www.paypal.com.

How to do it...

Once you have installed the PayPal Website Payments Pro module, follow these steps:

1. Navigate to Store settings | Advanced store settings | Payment methods and you will see PayPal WPP - Credit Card appear under Disabled payment method rules:

PayPal WPP - Credit Card Machine name: commerce_payment_paypal_wpp, Weight: 0 Select availabl payment methods for an order	e Default	edit	translate	enable	clone	export
--	--------------	------	-----------	--------	-------	--------

- 2. Click on edit to go to the Editing reaction rule "PayPal WPP Credit Card" screen.
- 3. Under the Actions block, you will see the Enable payment method: PayPal WPP Credit Card element. Click on edit under the Operations column:

Elements	Operations
Enable payment method: PayPal WPP - Credit Card Parameter: Order: [commerce-order]	edit delete

4. You can now see the settings for this payment method in the **Payment Settings** pane.



5. Enter your **API username**, **API password**, and **Signature** values from your PayPal account:

API username	
PayPalAPIUsername	
API password APIPasswordGoesHere	
C i	



To find these values see http://www.putler.com/support/
faq/how-to-get-paypal-api-username-password-andsignature-information/.

6. The next setting, **PayPal server**, allows you to specify whether you want to use the Sandbox PayPal server for testing, or the Live PayPal server for taking payments from genuine customers:





You can sign up for a PayPal Sandbox account for testing transactions on your store at https://developer.paypal.com.

 Next, the Limit accepted credit cards to the following types field allows you to select which credit cards your store will accept:

Limi	it accepted credit cards to the following types *
× 1	Visa
×	MasterCard
¥ ,	American Express
✓	Discover Card
	Maestro
	Solo
Amer	ican Express is not available in the UK. Only MasterCard and Visa are available in Canada. If you enable Maestro or Solo, you must use GBP as your currency code.

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Note the restrictions in regions noted underneath: American Express is not available in the UK. Only MasterCard and Visa are available in Canada. If you enable Maestro or Solo, you must use GBP as your currency code.

8. You can also specify whether to ask your customers to use the CVV card security code with this payment method with the **Require the card security code (i.e. CVV)** to process credit card transactions field:

Require the card security code (i.e. CVV) to process credit card transactions. This should match the similar setting in your PayPal account.

- 9. As the note beneath the field says, this value needs to match what you have set in your PayPal account settings to prove to PayPal that this is authorized use of the PayPal account! Once logged in to your PayPal account, navigate to Profile | My Selling Tools and select Update next to Managing risk and fraud.
- Click on Edit Your Filter Settings and check the boxes next to CVV to enable or disable it to match the value you have defined in the Drupal Commerce module. Click on the Save button.



Note that your PayPal account must have been upgraded to Business and been fully approved for PayPal Payments Pro. If your account is simply **Approved With Restrictions**, the preceding options may not be visible to you.

11. Back in Drupal Commerce's administration panel, you can return to the settings. The **Default currency** field defines the currency type that is used by the PayPal transactions from your store as default, so it is usually best to change this to your own country's currency:

Default currency GBP Transactions in other currencies will be converted to this currency, so multi-currency sites must be configured to use appropriate conversion rates. Allow transactions to use any currency in the options list above. Transactions in unsupported currencies will still be converted into the default currency.

12. The option below the **Default currency** field is **Allow transactions to use any currency in the options list above** and checking it allows your customers to pay in their own currency, with PayPal converting it to your currency (PayPal takes an additional commission for this transfer).



13. The next setting is Default credit card transaction type. The Authorization and capture option authorizes payment from the customer's account immediately and transfers money to your PayPal account. The Authorization only (requires manual or automated capture after checkout) option verifies that the customer has a valid credit card and can afford the payment, but does not yet take payment.

Default credit card transaction type		
Authorization and capture		
\bigcirc Authorization only (requires manual or automated capture after checkout)		
The default will be used to process transactions during checkout.		

14. Finally, the **Log the following messages for debugging** setting allows you to define whether you log messages for requests and/or responses to and from the PayPal server, which can be useful for debugging problems with your store.



To view these log messages, go to **Site settings** | **Advanced settings** | **Reports Site reports** | **Recent log messages**.

- 15. Click on the **Save** button and navigate to **Store** | **Configuration** | **Payment methods** again.
- 16. Click on **enable** next to the **PayPal WPP Credit Card** option, and then click on the **Confirm** button in the corresponding dialog:

Are you sure you want to enable the reaction rule PayPal WPP - Credit Card?			
Home Administration Advanced store settings Payment methods Editing reaction rule "PayPal WPP - Credit Card"			
Confirm Cancel			
Powered by Drupal Commerce			

If you now attempt to check out from your store, you will see the **Credit card** payment method appears, powered by PayPal:



Oredit card	
Card type	
Visa 👻	
Card number *	
Expiration *	
03 🕶 / 13 💌	
Security code *	
Continue to next step	or Go back

Note that your website will need a security certificate to secure the transfer of data for your customers. Ask your host for information on SSL certificates and see http://en.wikipedia.org/wiki/Transport_Layer_ Security#SSL_1.0.2C_2.0_and_3.0 for more information.

Integrating SagePay Form Integration with Drupal Commerce

SagePay is a popular payment gateway based in the UK, which can process credit and debit cards much like popular providers such as PayPal and Authorize.net.

Getting started

Download the Commerce SagePay from Drupal.org at http://drupal.org/project/ commerce_sagepay_form and install it on your Drupal Commerce store. You will also need a SagePay account set up, which you can do at http://www.sagepay.com.

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Chapter 5

How to do it...

Once you've installed the module, follow these steps to enable SagePay for your Drupal Commerce store:

1. Navigate to **Store settings** | **Advanced store settings** | **Payment methods** and locate the SagePay module in the list:

Credit Card (via SagePay) Select available payment Machine name: commerce_payment_commerce_sagepay_form, weight: 0 methods for an order	Default	edit	translate	disable	clone	export
---	---------	------	-----------	---------	-------	--------

2. Click on the **edit** link to alter the module's settings, and then click on the **edit** link once again under the **Actions** block:

Actions	Show row weights
Elements	Operations
Enable payment method: Credit Card (via SagePay) Parameter: Order: [commerce-order]	edit delete
+ Add action + Add loop	

3. Under the **Payment settings** block on the next screen, enter your **SagePay Vendor Name**, **Encryption Key**, and **Vendor Email** associated with your SagePay account:

Payment settings
SagePay Vendor Name *
YourSagePayVendorName
This is the vendor name that SagePay sent you when you set up your account.
Encryption Key *
YourKeyGoesHere
If you have requested form based integration, you will have received an encryption key from SagePay in a separate email.
Vendor Email
youremailaddress@example.com
An e-mail address on which you can be contacted when a transaction completes.

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4. Next, the **Order Description** field allows you to define text that appears on a customer's account statements. This is shown for any products ordered through your store and paid for with the SagePay payment gateway, so try and keep it generic, and mention your website's URL or company name here.

Order Description *	
Your order from example.com	
The description of the order that will appear in the SagePay transaction. (eg Your Order from sit	nam

5. The **Transaction mode** field allows you to specify whether the payment method is in live or test mode, and the **Default credit card transaction type** field specifies how the payment is taken (that is, whether your store takes payment directly, or whether you want to take payment later on manually with SagePay):

Transaction mode
 Live transactions in a live account
 Test transactions in a test account
Simulation Account
Adjust to live transactions when you are ready to start processing actual payments.
Default credit card transaction type
 Authorisation and capture
O Authorisation only (requires manual or automated capture after checkout)
The default will be used to process transactions during checkout.

6. For more advanced configuration, the **AVS / CV2 Mode** settings allow you to tell Drupal Commerce how to behave if the *verification* numbers on cards are used to verify card holders when making payments to you.

AVS / CV2 Mode	
If AVS/CV2 enabled then check them. If rules apply, use rules. (default)	
\bigcirc Force AVS/CV2 checks even if not enabled for the account. If rules apply, use rules.	
○ Force NO AVS/CV2 checks even if enabled on account.	
\bigcirc $$ Force AVS/CV2 checks even if not enabled for the account but DO NOT apply any rules.	
CV2 validation mode used by default on all transactions.	

It is good practice to have AVS/CV2 enabled on your store to help prevent fraudulent transactions. If you select the **Force AVS/CV2 checks even if not enabled for the account** option, AVS/CV2 checks will be undertaken even if you haven't enabled these with your SagePay account. If you have rules in your Drupal Commerce store that may affect the functioning of this, you can choose to ignore them, or enforce these rules.

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Beware that some payment gateways and credit card providers may be penalized if you do not check the AVS/CV2 value for transactions. Note that AVS is a UK-only fraud prevention scheme.

For more information on these settings for SagePay, see http://www.sagepay.com/help/ userguides/6338?page=5.

7. Similarly, the **3D Secure Mode** settings add another layer of card holder verification to transactions.

3D Secure Mode

۲	3D-Secure checks are possible and rules allow, perform the checks and apply the authorisation rules. (defa	iult)

- Force 3D-Secure checks for this transaction if possible and apply rules for authorisation.
- Do not perform 3D-Secure checks for this transaction and always authorise.
- \supset Force 3D-Secure checks for this transaction if possible but ALWAYS obtain an auth code, irrespective of rule base.

3D Secure mode used by default on all transactions.

The first option in the preceding screenshot ensures the SagePay module undertakes the 3D-Secure check for the transaction, and then performs any authorization rules set in your SagePay account.

The second option tells the SagePay module to attempt a 3D-Secure check if possible, and apply any rules for authorization set in your SagePay account.

The third option effectively disables 3D-Secure checks for all transactions.

The final option above will make the SagePay module attempt to run a 3D-Secure check on the transaction, if possible, but even if no 3D-Secure check is run, an authorization code from SagePay will always be sought before payment is taken.



Processing payments without 3D-Secure enabled will incur additional transaction fees, so it's worth leaving this enabled!

8. Finally, the **Send cart contents to SagePay** field allows your store to send the individual items a customer has ordered to SagePay instead of just the final cart total. This may be of use if you use Sage for your business' accounting.



9. Click on **Save**, and enable the payment method if it is not already active. You can now see the SagePay payment method available at checkout:

PAYMENT	
● Credit Card (via SagePay	()
Continue to next step	or <u>Go back</u>

Setting up VAT or a sales tax in Drupal Commerce

Some countries have a standing sales tax—value added tax (VAT)—applied to sales and contributes towards the country's taxation income.

Getting started

Ensure you are logged in to the Drupal administration panel as an administrator.

How to do it...

Setting up VAT or a sales tax for your Drupal Commerce store doesn't require a module. You can use the core features of Drupal Commerce to achieve this.

- 1. Navigate to Store settings | Advanced store settings | Taxes.
- 2. Create a new tax rate by clicking on the Add a tax rate link:

Taxes			×
lome Administration Store sett 	ings ► Advanced store settings ► Taxes	Tax rates	Tax types
+ Add a tax rate			Show help
Name	Operations		
There are no tax rates yet. Ad	d a tax rate.		



3. Enter a name for your tax in the **Title** field:

Taxes		×
Home Administration Store	settings ► Advanced store settings ► Taxes ► Add a tax rate	
Title *		
VAT	Machine name: Machine name: vat [Edit]	
The administrative title of this tax	rate. It is recommended that this title begin with a capital letter and contain only letters, numbers, and spaces.	
Display title		
VAT		
The front end display title of this t	ax rate shown to customers. Leave blank to default to the Title from above.	
Description		
Describe this tax rate if necessary.	The text will be displayed in the tax rate overview table.	1.
Rate *		
0.2		
The percentage used to calculate	this tax expressed as a decimal, e.g06 for a rate of 6%.	
Type * Sales tax ▼		
The tax type for this rate.		
Save tax rate Ca	ncel	

- 4. Enter **Display title** too if you want this to appear to customers differently from the **Title** value, and add a description which is used for administrators only.
- 5. Next, enter a value for the **Rate** field. This is the rate of the tax to be applied expressed as a decimal value, so 20 percent tax would be entered as 0.2 and 17 percent tax would be entered as 0.17.

Rate *	
0.2	
The percentage used	to calculate this tax expressed as a decimal, e.g06 for a rate of 6%.

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6. The next option is **Type**, which specifies how the tax is applied at checkout for customers. If the value is set as **Sales tax**, the tax is displayed as an addition to the cost. If the value is set to **VAT**, the tax is displayed in the total cost of the products being ordered.

VAT



You can configure how the tax is displayed in your store to customers by clicking on the **Tax types** tab towards the top-right corner of your screen in the **Store settings** | **Configuration Advanced store settings** | **Taxes** view screen.

- 7. You can now click on **Save tax rate** to retain these changes.
- 8. To change the way tax is applied to a particular product, navigate to **Store | Products** and select a product to edit by clicking on the **edit** option in the **Operations** column:

9. Locate the **Price** field in the consequent screen you see, and you should now see the **Include tax in this price** field:

Price * Include tax in this price			
16.00	GBP	Including VAT	•
		Saving prices tax inc	clusive will bypass later calculations for the specified tax.

10. Setting this value to **Including VAT** (or the name of your tax) will alter the way tax is dealt with for this product and ignore any other tax calculations you have set up later in the checkout process.

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6 Drupal Commerce Search Engine Optimization

This chapter covers tips and techniques to improve your Drupal Commerce website's search engine friendliness, including:

- ▶ Using search engine friendly URLs for your products
- ▶ Verifying your Drupal Commerce website with Bing and Google
- ▶ Creating an XML sitemap for your Drupal Commerce store
- Adding a meta description field to your Drupal Commerce product display
- ► Integrating Google Authorship with your Drupal Commerce store

Introduction

The chances are that your e-commerce website has hundreds of competitors, and it's vital that your store is as search engine friendly as possible. These tips and tricks may help to give your Drupal Commerce store that additional boost it needs in search engine rankings to help drive more customers to your store over your competitors.

Drupal Commerce Search Engine Optimization -

Using search engine friendly URLs for your products

Perhaps one of the easiest and yet most overlooked way to improve your website for search engines is to provide search engine friendly URLs (web addresses) for your product pages. Luckily, Drupal Commerce makes this easy for you to do!

Getting started

Log in to your Drupal Commerce store's administration panel.

How to do it...

Once you have logged in as an administrator, follow these steps:

- 1. Navigate to Site settings | Configuration.
- 2. Select the Clean URLs option from the SEARCH AND METADATA box:



3. Ensure that the Enable clean URLs field is checked:





4. Finally, click on the Save configuration button to save the setting.



For more help enabling search engine friendly URLs for your Drupal Commerce site (especially if you're having problems on a shared server), see http://drupal.org/getting-started/clean-urls.

- 5. Now that clean URLs are enabled in your Drupal Commerce store, you can add and edit your products and give them clean web addresses.
- 6. Navigate to **Products** | **Add a product**, and select the type of product that you want to create.
- 7. Complete the next screen to add a product. If you scroll towards the bottom of the screen, you will see further options displayed in tabs:

Product catalog	Product category	
Menu settings Not in menu	- None -	•
Revision information No revision		
URL path settings Automatic alias		
Comment settings Open		
Authoring information By admin		
Publishing options Published		

8. Click on the **URL path settings** tab to select it, and you are presented with the URL alias field where you're able to enter a custom path for your product.

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9. Since the product in this example is a t-shirt, the value **t-shirts** is used here (you may need to uncheck the **Generate automatic URL alias** checkbox if you've enabled this feature):

Product catalog	Generate automatic URL alias			
Menu settings Not in menu	Uncheck this to create a custom alias below. Configure URL alias patterns. URL alias			
Revision information	t-shirts			
No revision	Optionally specify an alternative URL by which this content can be accessed. For example, type "about" when writing an about page. Use a relative path and don't add a trailing slash or the URL alias won't work.			
URL path settings Alias: t-shirts				
Comment settings Open				
Authoring information By admin				
Publishing options Published				

10. When creating your custom URL path, bear in mind that:

- You can't add a slash character (/) at the end of your URL as this will prevent Drupal from displaying the page. You can use slash characters in the middle of your URL alias, though: so products/t-shirts is fine, but products/ t-shirts/ is not.
- You don't need to add the full (absolute) URL to your product (for example, http://www.example.com/t-shirts Or www.example.com/tshirts). This will confuse Drupal and your custom URL will not work.
- It is best practice to avoid using spaces in this field; replace any spaces that you want with either an underscore or a hyphen character, so that fantastic t-shirts might become fantastic-t-shirts or fantastic_t-shirts.
- Avoid uppercase letters in your URL, so ensure your URL is t-shirts and not T-Shirts. While there is nothing wrong with capital letters in your site's URLs, it's easier for consistency's sake, and helps to prevent duplicate URLs on your site, too.

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How it works...

By default, Drupal assigns a unique number to your product display nodes (pages), and they will appear similar to the following:

http://www.example.com/node/123

Search engines prefer URLs that contain words that relate to the page's (or product's) content, and by using the URL alias field when you create products in your store, you can present content in your store with more search engine friendly URLs, such as the following:

http://www.example.com/t-shirts

Verifying your Drupal Commerce website with Bing and Google

Search engines often provide tools that allow you to access webmaster information including information about any errors found on your website, such as missing pages and any duplicate content. Verifying your sites with services such as Bing and Google also allows you to submit XML sitemaps to search engines manually, as you will see in another recipe in this chapter.

This recipe will guide you through how you can use a Drupal module, Site Verification, to verify your Drupal Commerce with search engines such as Bing and Google for greater insight into your website's visitors. Verifying your website with search engines also allows you to use tools to see errors with your website, which you can fix, improving your website for customers.

Getting ready

You will need to download the Site Verification module from Drupal.org at http://drupal. org/project/site_verify. Install this module in your Drupal Commerce installation.

How to do it...

Once you have installed the Site Verification module, follow these steps:

1. Navigate to **Site settings** | **Advanced settings** | **Modules** in your website's administration panel to enable the module. You'll find the module grouped under **Other heading**:





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- 2. Click on the Save configuration button to save the newly enabled module's state.
- 3. There are two common methods that search engines use to verify that you own a website:
 - Uploading a custom HTML file to your website. Once the file is there, the search engine checks whether it exists, proving you own the website (as presumably someone who owns the website will have access to upload files to it).
 - Adding a custom meta element to your website's <head> element. Again, this is similar to the preceding approach; here search engines assume that anyone who has access to alter the HTML of your website will "own" the website.
- 4. The Site Verification module allows you to manage both of these verification methods without having to alter your individual theme files, making it more "upgrade-proof" than other ways of doing this.
- 5. Once the module is enabled, navigate to Site settings | Advanced settings | Modules in the Drupal Commerce administration panel again, and click on the configure link that has appeared to the right of the module's name and description now that it has been enabled:

	Site Verification	7.x-1.0	Verifies ownership of a site for use with search engines.	🔅 Configure

6. You are now presented with a new option for **Verifications** (you may need to clear Drupal's cache at **Site settings** | **Configuration** | **Performance** to see this):



7. Click on the **Verifications** link to manage the verification files and metadata for your site. Click on the **Add verification** link towards the top-left corner of your screen:



Chapt	ter 6
-------	-------

Verifications				
Home 🕨 Administration 🕨 Site	settings 🕨 Advanc	ed settings ► Configuration ►	Search and m	netadata 🕨 Verifications
+ Add verification				
Engine	•	Meta tag		File
No verifications available.	Add verification.			

8. You're now presented with a drop-down list of the search engine formats to which you can add verification. This example will use Bing as an example format to verify your website for, so select the **Bing** value from the **Search engine** drop-down list and click on the **Next** button to proceed:

Verifications	
Home Mome Administration	 Site settings
Search engine	
Bing	•
Bing Custom verification Google Yahoo! Yandex	
Powered by Drupal Com	merce

- 9. You will need to copy the verification tag provided by Bing's control panel onto your clipboard to use in the next step.
- 10. You are now given the chance to enter either **Verification META tag** or **Upload an existing verification file**. If pasting a verification metatag here, post the full line, including the meta element at the start:

Verifications
Home Administration Site settings Advanced settings Configuration Search and metadata Verifications Add verification
Search engine Verification MFTA tag
<meta name="msvalidate.01" content="7AFA7AFA7AFA7AFA7AFA7AFA7AFA7</td>
This is the full meta tag provided for verification. Note that this meta tag will only be visible in the source code of your front page.



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- This is then displayed on the homepage of your Drupal Commerce website only (though you may again need to refresh Drupal's cache in the Site settings | Configuration | Performance menu before you see it).
- 12. Viewing the source of the page will reveal the following now appearing in your page's <head> element:

```
<meta name="msvalidate.01" content="7AFA7AFA7AFA7AFA7AFA " />
```



Ensure that this value matches what the Bing (or Google) webmaster tools provides you with.

13. That's it! You will see that your new metatag (or verification file) is listed here at admin/config/search/verifications:

Verifications					
lome 🕨 Administration	► Site settings ► Ad	Ivanced settings 🕨 Configur	ation 🕨 Search and metadata 🕨 N	Verifications	
Verification sa	aved.				
+ Add verification					
			-1.		
Engine		Meta tag	File	Operations	
Bing		Yes	None	Edit Delete	

Creating an XML sitemap for your Drupal Commerce store

Part of making your Drupal Commerce store search engine friendly is making your content easy to find for search engines, and one good way to do this is to generate an XML sitemap of your website's pages, which tells search engine the following:

- The address of every page that you would like them to consider including.
- The relative importance of each page in your website compared to other pages in your website. Your homepage may be more important than your terms and conditions page, for example.
- The frequency with which each page on your website is updated.

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Getting started

Firstly, you may find it useful to create a View in your Drupal Commerce store that lists all products in your store), as online XML sitemap generators work based upon the links they find between pages on your website. To create a View that lists all products in your Drupal Commerce store, see http://drupal.org/node/863852. Next, find an online XML sitemap generator such as http://www.xml-sitemaps.com or http://www.xml-sitemaps.com or http://www.xmlsitemapgenerator.org.

How to do it...

Once you have generated the XML sitemap:

1. The XML sitemap generator will produce a file that looks similar to the following code:

```
<urlset xmlns="http://www.sitemaps.org/schemas/sitemap/0.9"</pre>
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.sitemaps.org/schemas/sitemap/0.9
http://www.sitemaps.org/schemas/sitemap/0.9/sitemap.xsd">
<url>
<loc>http://www.example.com/</loc>
<changefreq>weekly</changefreq>
<priority>1</priority>
</url>
<url>
<loc>http://www.example.com/t-shirts</loc>
<changefreq>daily</changefreq>
<priority>0.8</priority>
</url>
<!-- some entries omitted -->
</urlset>
```

2. Each page is contained within a <url> element that itself contains a <loc> element that identifies the location of the page. There are a number of optional fields, too; the <changefreq> element tells the search engine how often this page is likely to change, and the <priority> element tells the search engine how important it is for you to view this page as on your website in comparison to other pages on your website. Note that the priority element does not affect how your website ranks against other websites.



For more information on the XML sitemap format, see http://www.sitemaps.org.



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- 3. Upload this to your Drupal Commerce website. You can either upload it in your root directory (for example, http://www.example.com/sitemap.xml) or in a sub directory (for example, http://www.example.com/sitemaps/products.xml), which may be useful if you have split your sitemap in to multiple files.
- 4. Finally, you can add a reference to your website's robots.txt file to tell search engines where to look for your XML sitemap file(s). To do this, open the robots.txt file in the root directory of your website and add the following to tell search engines about your new XML sitemap:

Sitemap: http://www.example.com/sitemap.xml

Or use this format if you have saved your sitemap in another directory, as discussed earlier:

Sitemap: http://www.example.com/sitemaps/products.xml



If you have Drupal installed in a sub directory of your domain, such as http://www.example.com/drupal, the robots.txt file still needs to be in the root directory, so that it appears at http://www.example.com/robots.txt as this is the correct location for it. If robots.txt is not placed directly in the root directory of your site, it will have no effect.

- 5. You can manually submit your XML sitemap to search engines, too:
 - Submit XML sitemaps to Google at http://www.google.com/webmasters/sitemaps/
 - Submit XML sitemaps to Bing at http://www.bing.com/webmaster
- 6. You may need to verify that you own your Drupal Commerce website before submitting sitemaps to search engines. If this is the case, you will need to follow the *Verifying your Drupal Commerce website with Bing and Google* recipe in this chapter.

How it works...

If you're concerned that pages aren't being indexed by search engines, an XML sitemap may be a good way to introduce pages to search engines. You may also find signing up to services such as Google Webmaster Tools useful as this reports the number of pages the search engine indexes from your website and the number you are providing in your XML sitemap file (https://www.google.com/webmasters/tools/).

By creating an XML sitemap for your store through an online sitemap generator, you can include all of the product pages in your store, which Drupal modules are currently unable to do at the time of writing with the use of the XML Sitemap module (http://drupal.org/project/xmlsitemap).





If you are using Drupal's multisite feature, you may find the **RobotsTxt** module useful: http://drupal.org/project/robotstxt

There is an experimental extension to XML Sitemap module for Commerce products: http://drupal.org/sandbox/recrit/1279350. Sandbox projects are not intended for inexperienced Drupal users or developers, so avoid it if you're not comfortable.

Adding a meta description field to your Drupal Commerce product display

The days of the meta keywords field's usefulness have long since disappeared after years of abuse and keyword-stuffing. The meta description field can still be useful as it is displayed in the search engine results pages in search engines, though. Drupal Commerce doesn't give products description fields by default, so you will need to install a module to achieve what you are after.

The following example shows the first result for the search term **richard carter, web designer** in Google. Below the page's title and the URL, you can see that part of the page's meta description at the time of writing is used as the page's description:

Google	richard carter, web designer	Q
Search	About 3,650 results (0.34 seconds)	
Web Images Maps	Richard Carter Web designer and frontend developer www.earlgreyandbattenburg.co.uk/ Richard Carter is a web designer and frontend web developer based in Newcastle upon Tyne. He likes drinking tea	

Similarly, in Bing, the meta description of the page is shown in the search engine results page too:




Drupal Commerce Search Engine Optimization -

Getting ready

Download the Meta Tags Quick module from Drupal.org at http://drupal.org/project/ metatags_quick, and install this to your Drupal Commerce installation.

How to do it...

Once you have installed the Meta Tags Quick module, follow these steps:

1. You can now navigate to the **Site settings** | **Configuration** | **Search and Metadata** block and select the **Meta tags (quick) settings** option:



2. Under the **General** tab towards the top-right of your screen, you will see a list of the Bundles and Entities in your Drupal Commerce installation that the **Description** (and other) field can be applied to:

your own using the Fields UI. Hint: press on entity type name to edit individual bundles settings (you can hide this hint in global settings).							
Bundle/entity	Abstract	Canonical URL	Copyright	Description	Keywords	Revisit after	Robots
Node							
<u>Taxonomy term</u>							
Comment							
Commerce Customer profile							
Commerce Delivery							
Commerce Discount							
Commerce Discount Offer							
Commerce Line item							

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3. Expand the **Node** bundle, and select the checkbox in the **Description** column for each type of product type that you have created in your Drupal Commerce store:

Bundle/entity	Abstract	Canonical URL	Copyright	Description	Keywords	Revisit after	Robots
Node							
Basic page				•			
DL product type				•			
Product - t-shirt				•			
Product display				•			
Product with file upload field							
T-shirt product				•			

- 4. Click on the **Attach** button to add the field to that particular entity type, and then click on the **Submit** button to save changes.
- 5. The meta description field will now appear on product display edit screens. Navigate to **Products** | **Manage products** in the administration panel and select the edit option on a product to which you want to add a meta description.
- 6. Scrolling down this page, you will now see the **(Meta)Description** field, to which you can add your desired meta description value for this product:

T		
Tags		
Test category	0	
(Meta)Description		_
This is the product's meta descript	on.	
		2
Menu settings		
T-shirt	🔽 Provide a menu link	
1 2000		

- 7. Click on the Save button to save your newly added meta description content.
- If you now navigate to the product page on your store and view the page's source (*Ctrl* + *U* in most modern browsers), you will see that the meta description field is now added in the <head> element of your page:

```
<meta name="description" content="This is the product&#039;s meta description." />
```

9. That's it! You can now customize your product page's meta description fields.



Drupal Commerce Search Engine Optimization -

Integrating Google Authorship with your Drupal Commerce store

The following is an example of how Google Authorship changes your website's search engine results page listings:

Google	drupal commerce vs magento	٩
Search	About 970,000 results (0.28 seconds)	
Web Images Maps Videos	Magento vs Drupal Commerce Richard Carter Consultancy www.richardcarterconsultancy.com//magento-vs-drupal-c by Richard Carter 25 Jul 2012 – After comparing OpenCart and Magento and OpenCart vs PrestaShop, Magento vs Drupal Commerce seemed a natural next step. So, here's	

Note that a link to the relevant Google Plus profile is added below the page's URL, and a photograph linked to the Google Plus account is displayed next to the listing too. This recipe will show you how to enable Google Authorship on your Drupal Commerce website.



Google Authorship enables you to enhance your search engine listings by providing Google with more information about the author of your website. For more information on Google Authorship, see https://plus.google.com/authorship.

Getting started

You will need to create a Google Plus account, and register for authorship. Follow the steps Google provided online to verify your account (https://plus.google.com/authorship).



For more reading on Google Authorship, see this blog post: http://www. seomoz.org/blog/read-but-learn-by-doing-an-approachto-the-analysis-of-seo-issues-between-authorshipgoogle-plus-and-snippets

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How to do it...

Once you have verified your Google Plus account, you can start integrating it with your Drupal Commerce website:

- 1. Navigate to **Site settings** | **Visual & Layout** | **Blocks** in your administration panel.
- 2. Click in the **Add block** link at the top of the screen, and edit the block with the **Text** format drop-down list set to **Full HTML**.
- 3. Give your block a sensible value for **Block description**, and use the following markup in the **Block body** field:

```
By <a href="https://plus.google.com/111540596775529053428?rel=auth
or" title="Richard Carter on Google Plus">Richard Carter</a>
```



Don't forget to replace https://plus.google.com/111540596775529053428 with the URL of your own Google Plus account!

- 4. You can modify this as you see fit, but ensure that you link it to the Google Plus account that you set up, and that also you include the <code>?rel=author</code> attribute at the end of the URL to tell Google that this page is related to the author of its content.
- 5. Finally, select a region in your Drupal theme in the **Region settings** pane to assign the new block once you save it. The example sets the block to the **Footer First** region in the Omega Kickstart theme:

ac chown to the licer line	field supports tokens		
*	nela supports tokens.		
on ^			
ship snippet			
of your block. Used on the E	Blocks administration page.		
ull HTML	•		More information about text form
resses and e-mail addresse	s turn into links automatica	llv.	
	ship snippet ship snippet fyour block. Used on the i e'> ps://plus.google.com/1 ull HTML	ship snippet ship snippet fyour block. Used on the Blocks administration page. e'> ps://plus.google.com/1115405967755290534287 ull HTML	sin * ship snippet fyour block. Used on the Blocks administration page. e'> ps://plus.google.com/111540596775529053428?rel=author" title="Richard of the blocks administration page. ull HTML

Drupal Commerce Search Engine Optimization -

6. Click on the **Save** block button to see if it appears on the frontend of your Drupal Commerce website that customers see (you may need to clear your cache if you don't see it immediately):

By Richard Carte	r		
Company info	Service & support	Security & privacy	Shipping & returns
About us Press links	Service agreements	Terms of use Our security policy	Shipping fees

7. That's it! You've integrated Google Authorship on your store. It may take several days, weeks, or even months to appear, so be patient (and there's a chance Google will decide not to use it at all, of course).

How it works...

By verifying who you are with a Google Plus and linking to your Google Plus profile from your Drupal Commerce store using the rel=author attribute, you're telling Google that, if it decides so, you would like a little more information about the author of the page—you—to be displayed in search engine results pages. You do this by associating a Google Plus profile with your Drupal Commerce store, which allows Google to enhance your website's listings in search engine result pages, which may help your store stand out from others!

Taking these steps will not guarantee that your avatar and Google Plus account are linked in all or any of your website's pages, but if Google decides it's helpful to those searching, it will include them. For more information, see http://support.google.com/webmasters/ bin/answer.py?hl=en&answer=1306778.

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This chapter covers techniques to customize the look and feel of your Drupal Commerce website. We will be covering the following topics:

- Creating a new theme for Drupal Commerce
- Customizing Drupal Commerce product pages
- Customizing the Drupal Commerce checkout
- ► Theming Drupal Commerce's cart page
- ▶ Using Google Fonts with your Drupal Commerce theme

Introduction

Your store may be among hundreds or thousands of competitors selling similar products, the design, and visual appeal of your website can make a huge difference to sales.

From the basics such as uploading your own logo and favorites icon to customizing the look and feel of your entire store, there's much you can do to customize your Drupal Commerce store.

Creating a new theme for Drupal Commerce

Drupal Commerce is supported by Drupal's flexibility, and its theming system is no different. You can create a new theme to change the look and feel of your Drupal Commerce store.

Getting started

Drupal Commerce's default theme is an extension of the Omega theme of Drupal 7 called Omega Kickstart (see http://drupal.org/project/omega_kickstart):

As you can see, it provides a nice, clean base to start your own Drupal Commerce theme on.

How to do it...

You can create your own theme based on the Omega Kickstart theme by creating a subtheme, which will simply overwrite the aspects of the Omega Kickstart theme you don't want to use:

- To begin creating your new subtheme, you will need to create a directory in the /sites/all/themes directory of your Drupal Commerce installation. The new subtheme will be called defacto, so you will need to create a directory at /sites/all/themes/defacto.
- 2. Your new theme will need a .info file to tell Drupal about it, so create a file in your new directory called defacto.info and add some information about your theme, including its name and a brief description of the theme:

```
name = 'Defacto'
description = 'Custom Drupal Commerce sub theme based on Omega
Kickstart.'
screenshot = 'screenshot.png'
```

3. Next you need to tell Drupal which theme you want to use as a base theme, which you do by adding the following line to the .info file:

```
base theme = 'omega_kickstart'
```

To ensure that Drupal accepts the theme as compatible with its core version, add the following line as this isn't inherited from the parent theme:

```
core = '7.x'
```

5. Drupal subthemes inherit many things from their base theme, but they will not inherit regions from them. To preserve the regions, it's easiest to copy the regions from the base theme's .info file, which is located in the profiles/commerce_ kickstart/themes/omega_kickstart directory if you installed Drupal Commerce using Commerce Kickstart:

```
regions[page_top] = 'Page Top'
regions[page_bottom] = 'Page Bottom'
regions[content] = 'Content'
```

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```
regions[user_first] = User Bar First
regions[user_second] = User Bar Second
regions[branding] = Branding
regions[menu] = Menu
regions[breadcrumb] = Breadcrumb
regions[sidebar first] = Sidebar First
regions[sidebar_second] = Sidebar Second
regions[header first] = Header First
regions[header_second] = Header Second
regions[preface first] = Preface First
regions[preface_second] = Preface Second
regions[preface third] = Preface Third
regions[postscript_first] = Postscript First
regions[postscript second] = Postscript Second
regions[postscript third] = Postscript Third
regions[footer first] = Footer First
regions[footer second] = Footer Second
regions[footer_third] = Footer Third
regions[footer2 first] = Footer2 First
regions[footer2_second] = Footer2 Second
```

6. Although the base theme's screenshot is inherited by subthemes, you can also specify a screenshot of the theme by adding a line to the defacto.info file. Save a file called screenshot.png (you can update this later once your new theme is complete) in the subtheme's directory and add the following to your .info file:

```
screenshot = 'screenshot.png'
```

7. To inherit the base theme's stylesheets, you need to include at least one stylesheet in your subtheme's .info file, so create a file called defacto.css in your subtheme's directory, and add the following line to your defacto.info file:

```
stylesheets[all][] = defacto.css
```

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8. You can now enable the subtheme. Navigate to **Appearances** in your administration panel, and scroll down to see the **DISABLED THEMES** list. Under this heading, you will see your new theme. Click on the **Enable** and set the default link:



9. Your new theme is now enabled! You won't see any changes quite yet, though, as your subtheme isn't telling Drupal to change anything from the base theme.



You can download the example code files for all Packt books you have purchased from your account at http://www.packtpub.com. If you purchased this book elsewhere, you can visit http://www.packtpub. com/support and register to have the files e-mailed directly to you.

Customizing Drupal Commerce product pages

The product page is one of the most important aspects of your store. A good product page design can showcase your product clearly and make it easy for customers to start purchasing products; a bad product page can dissuade customers from using your store and using a competitor.

Drupal Commerce gives you the ability to customize your store's product pages using Drupal's template override system and a sprinkling of CSS, of course.

Chapter 7

Getting started

You will need to create a new Drupal theme to use on your store. See the *Creating a new theme for Drupal Commerce* recipe.

How to do it...

Customizing your product page can entail a number of techniques. In this example, you will see how to apply your own CSS to the products page and alter the product page's HTML:

1. By default, here's what your Drupal Commerce product page probably looks like, assuming you are using the Kickstart Omega theme that comes installed and activated by default:





2. As you can see, it's not the most attractive of product pages to entice a customer to buy from your store. Open your theme's CSS file (for example, /sites/all/ themes/defacto/defacto.css) and apply the following CSS to style the product's price display:

```
.field-name-commerce-price {
   color: #88aa00;
   font-size: 24px;
   font-weight: bold;
}
You may need to clear D
   settings | Configuration
   the Clear all caches but
```

You may need to clear Drupal's cache by navigating to **Site settings** | **Configuration** | **Performance** and clicking on the **Clear all caches** button.

3. Upload your theme's CSS file and refresh your store's product page to see the updated style take hold:

Sample product
£24.99 This is a sample product in our Drupal Commerce store.
Quantity 1 Add to cart

4. Next, you can apply more CSS to the **Add to cart** button to make it more appealing to customers by changing its color, making it larger, and adding a shopping cart icon:

```
.commerce-add-to-cart .form-submit {
   background: #88aa00 url("images/add-to-cart_bg.png") no-repeat
5px center;
   border-color: #739000;
   color: #fff;
   font-size: 24px;
   font-weight: bold;
   padding: 10px 10px 10px 25px;
}
```

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5. After uploading your theme's CSS file and the add-to-cart_bg.png image in a subdirectory of your theme called /images to your store, you will see the add to cart button change appearance:

Sample product
£24.99 This is a sample product in our Drupal Commerce store
Quantity
₽Add to cart

- 6. Next, you will customize the product page to include a prompt to redirect customers, who aren't looking for the particular product, back to your store's home page. To do this, you will need to overwrite Drupal templates. Create a file called node--product_display.tpl.php (note the double-dash between node and product) in a subdirectory of your theme called templates, so that it appears in /sites/all/themes/defacto/templates.
- 7. Now copy the contents of node.tpl.php in /profiles/commerce_kickstart/ themes/omega_kickstart/templates to the newly created node--product_ display.tpl.php file.
- 8. Looking through the node--product_display.tpl.php file, you should see the following block of code:

```
<div<?php print $content_attributes; ?>>
    <?php
    // We hide the comments and links now so that we can render
them later.
    hide($content['comments']);
    hide($content['links']);
    print render($content);
    ?>
    </div>
```

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9. This outputs the block of content associated with the product. To add our link, add the following code towards the bottom of this snippet, so that it appears as follows:

```
<div<?php print $content_attributes; ?>>

<?php
// We hide the comments and links now so that we can render
them later.
    hide($content['comments']);
    hide($content['links']);
    print render($content);
    ?>

        Not looking for <em><?php print $title ?></em>? <a
href="<?php print $GLOBALS['base_url'] . $GLOBALS['base_path'];?>"
title="Keep shopping">Keep shopping</a>.

</div>
```

10. If you now upload your node--product-display.tpl.php file, you will see the following content appear in your product page:



11. You may need to clear Drupal's cache to see changes to templates. Navigate to **Configuration | Performance** and click on the **Clear all caches** button.

Customizing the Drupal Commerce checkout

Alongside products and categories, the checkout is a fundamental part of any online store, and it's important to get it right. As with other views in Drupal Commerce, you can customize your checkout through Drupal themes.



Chapter 7

Getting started

You will need to create your own Drupal theme before performing the following steps; see the *Creating a new theme for Drupal Commerce* recipe.

How to do it...

To style the checkout page, you can edit both CSS and the HTML file that Drupal uses to style and structure these elements:

 Navigate to your store's checkout by adding a product to your cart, and clicking on the Checkout button on the Shopping Cart page. As you can see, the checkout page is currently functional, but a little bare:

CHECKOUT			
SHOPPING CART CONTENTS			
PRODUCT	PRICE	QUANTITY	TOTAL
Sample product	£24.99	1	£24.99
		Order total	£24.99

2. Open your theme's stylesheet (for example, /sites/all/themes/defacto/ defacto.css), and apply the following style to alter the style of the Order total block:

```
.field-name-commerce-order-total .field-items {
   background: #88aa00 !important;
   color:#fff;
}
```

3. If you now refresh your checkout page once you have uploaded the new CSS, you will see the **Order total** block has changed to be more visible. (You may need to clear your cache at **Configuration | Performance** first.)





4. You can also overwrite Drupal's default template for the checkout page to make deeper customizations to your store. Create a file called page--checkout.tpl. php in the /sites/all/themes/defacto/templates directory of your Drupal Commerce installation.



Note the double hyphen character between page and cart.

5. Copy the contents of the page.tpl.php file in /profiles/ commerce_ kickstart/themes/omega/alpha/templates to the contents of the file you created previously; this ensures that Drupal can still add the Commerce cart content into the page.



You'll need to look in the /themes/omega/templates for page.tpl.php file if you didn't install Drupal Commerce with Commerce Kickstart.

6. The contents of your theme's page--checkout.tpl.php file should look similar to the following:

```
<div<?php print $attributes; ?>>
  <?php if (isset($page['header'])) : ?>
  <?php print render($page['header']); ?>
  <?php endif; ?>
  <?php if (isset($page['content'])) : ?>
  <?php print render($page['content']); ?>
  <?php if (isset($page['footer'])) : ?>
  <?php print render($page['footer'])) : ?>
  <?php endif; ?>
  </ph>
```

7. You'll need to clear Drupal's cache to see the changes; navigate to **Site settings** | **Configuration** and click on the **Clear all caches** button:



Performance				
ome 🕨 Administration 🕨 Si	e settings 🕨 Advan	ced settings 🕨 Con	figuration 🕨 Devel	opment 🕨 Perform
Clear cache				
Clear all caches				

8. As you can see, this renders the checkout page as follows:

		My account Log o	ut 🛒 20	items £384.00	Checkou
RUPALCOMMERCE		2	Search		Q,
Sample Category 1 Sample Cate	gory 2 All Products			Contact	About
CHECKOUT					
Checkout Shipping	Review order Ch	eckout complete			
SHOPPING CART CONTENTS					
PRODUCT	PRICE	QUANTITY			TOTAL
Sample product 1	£19.20	20		:	£384.00
			Subtotal	£3	20.00
					64.00

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9. You can now overwrite and add regions as you see fit, that will affect only the checkout page in your Drupal Commerce store. For example, you may want to simplify the header area of your store on the checkout page to help increase conversions; you could do this by altering your theme's page--checkout.tpl.php file as follows:

```
<?php if (isset($page['content'])) : ?>
   <?php print render($page['content']); ?>
  <?php endif; ?>
   <?php if (isset($page['footer'])) : ?>
   <?php print render($page['footer']); ?>
   <?php endif; ?>
</div>
```

<div<?php print \$attributes; ?>>

10. This alters your store's layout to look as follows, making the checkout more prominent:

CHECKOUT				
Checkout Shipping	Review order	Checkout complete		
SHOPPING CART CONTENTS				
PRODUCT	PRICE	QUANTITY		TOTAL
Sample product 1	£19.20	20		£384.00
			Subtotal	£320.00
			VAT	£64.00
			Order total	£384.00

How it works...

Drupal has a strict hierarchy of how files are loaded to form the page. If a file Drupal needs isn't available in your theme, it will fall back to the system's default file. So, if Drupal finds a page--checkout.tpl.php file in your theme, it will use it, but if the file doesn't exist, it falls back to the page.tpl.php template in your theme, and then the page-checkout.tpl. php file in Drupal Commerce's core files, and so on.



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You may find the Theme Developer module useful if you plan on customizing your Drupal Commerce theme a lot, as it displays useful information about where Drupal is loading elements of the page from. You can download the module from http://drupal.org/project/devel_themer.

Theming Drupal Commerce's cart page

Distinct from the checkout page, Drupal Commerce's cart page shows your customers a review of the order they're about to make.

This recipe will walk you through how to overwrite Drupal Commerce's cart page template, to give you the knowledge you need to start customizing your store's theme more deeply.

Getting started

Using the subtheme Defacto that you created in a previous recipe, you will add this theme to your store to proceed with this recipe. Ensure you have the Defacto theme enabled and set as the default theme on your website, too. Go to **Site settings** | **Appearance** to change this.

How to do it...

Follow these steps to overwrite the default Drupal Commerce cart page with your own custom template:

1. Create a file in the /sites/all/themes/defacto/templates directory of your Drupal Commerce installation called page--cart.tpl.php.



Note the double hyphen character between page and cart.

2. Copy the contents of the page.tpl.php file in /profiles/ commerce_ kickstart/themes/omega/alpha/templates to the contents of the file you created previously; this ensures that Drupal can still add the Commerce cart content into the page.



You'll need to look in /themes/omega/templates for this file if you didn't install Drupal Commerce with Commerce Kickstart.

3. You can now edit the page--cart.tpl.php file in your theme's directory (for example, /sites/all/themes/defacto/templates) to add a Continue shopping link at the bottom of the shopping cart to help users navigate back to your store when looking at their shopping cart's contents:

The container-24 class on the paragraph uses Omega's CSS to tell the paragraph to be formatted to the full width of the content block. The JavaScript within the href attribute returns the customer to the previous page they visited. You could replace this with the address of a page within your website.

- 4. Clear Drupal's cache by navigating to **Site settings** | **Configuration** | **Performance** and clicking on the **Clear all caches** button.
- 5. Now navigate to the cart on your Drupal Commerce store, and you'll see the **Continue shopping** link appear:

	My account Log	gout 🛒	Empty £0.00	Checkout
DRUPALCOMMERCE		Search		Q,
Sample Category 1 Sample Category 2 All Products			Contact	About
SHOPPING CART				
Your shopping cart is empty.				
Continue shopping				

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Using Google Fonts with your Drupal Commerce theme

The Web used to be very restricted in its typography, but with the advent of **@font-face**, web designers have more choice than ever before. Now that you're not stuck with the likes of Arial and Helvetica, you can truly customize your store's appearance to match your branding.

This recipe will take you through using a web font from Google Font in to your Drupal Commerce theme.

Getting started

Visit Google Fonts at http://www.google.com/fonts and select the font you wish to use. You will need the URL of the particular font variations you will be using, which will look something like the following:

http://fonts.googleapis.com/css?family=PT+Sans

How to do it...

Once you have the font in mind you wish to use in your Drupal Commerce, follow these steps:

- 1. Open your theme's CSS file; if you have used the example theme we used earlier in this chapter, this will be the defacto.css file in the /sites/all/themes directory of your Drupal installation.
- 2. At the top of the CSS file, add the following line to import the custom font's CSS file into your own stylesheet:

```
@import url("http://fonts.googleapis.com/css?family=PT+Sans");
/* Your Drupal theme's styles below this */
```



Note you need to use the font's full URL here for your font to work correctly.

3. The font is now imported to your stylesheet, but you need to refer that you want to use this font somewhere in your stylesheet for it to appear on your Drupal Commerce store's design. In your theme's stylesheet, add the following line:

```
body {
  font-family: "PT Sans", Arial, Helvetica, sans-serif;
}
```



4. This applies the font to all text in any element in your page. You can just apply this font to headings or by adapting the CSS accordingly. For example, to assign the new font only to headings in pages, use the following CSS:

```
h1,h2,h3,h4,h5,h6 {
  font-family: "PT Sans", Arial, Helvetica, sans-serif;
}
```

- 5. Upload your CSS file back to your Drupal installation.
- 6. Clear Drupal's cache by navigating to **Site settings** | **Configuration** | **Performance** and clicking on the **Clear all caches** button.
- 7. If you now refresh the frontend of your Drupal Commerce store, you'll see your new font appear:

				Connect with us
Company info	Service & support	Security & privacy	Shipping & returns	
About us	Service agreements	Terms of use	Shipping fees	Facebook
Press links		Our security policy		Follow Us on Twitter
				P What We Like on Pinterest

For reference, here's what the store's footer looked like before the font alteration:

				Connect with us
Company info	Service & support	Security & privacy	Shipping & returns	
About us	Service agreements	Terms of use	Shipping fees	Facebook
Press links		Our security policy		Follow Us on Twitter
				What We Like on Pinterest

If you look carefully, you'll see that the newer design's font has slimmer letter forms. Of course, Google Fonts has a huge variety of styles available, so you can customize your store's fonts how you please.

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How it works...

By using the Google Fonts service, you can specify a larger range of fonts to use on your store and customize its look and feel, without the need for your customer to have the font you're using installed on their computer. Google Fonts voids the need for the customer to have the font installed as it provides a copy of the font from their servers, loaded as part of your website's stylesheets.

Usually, you can include CSS files for your Drupal theme in the .info file, but this method will not accept the absolute URLs (that is, http://fonts.googleapis.com/css?family=PT+Sans) used by Google Fonts as valid, leaving the CSS @import rule as the only way to do this.

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8 Further Configuration

This chapter covers some advanced configuration tips for your Drupal Commerce store, including the following:

- ► Enabling product reviews on your Drupal Commerce store
- Adding a contact form to your Drupal Commerce store
- ► Filtering UK postcodes or US ZIP codes from your Drupal Commerce store
- ► Enhancing customer experience at checkout in Drupal Commerce with AJAX

Introduction

Your Drupal Commerce store is now up and running and looks great, but there's always something you can do to improve your customers' experiences. From making it easier to contact you to allowing your customers to leave reviews of your products on your website, and making it easier for customers to find their address using ZIP or postcode lookup tools.

Enabling product reviews on your Drupal Commerce store

One way to help influence customers to purchase products is to allow them to publish reviews of your products on your store.

This recipe guides you through configuring the Fivestar module and Drupal Commerce to allow product ratings on your store.

Further Configuration -

Getting started

Go to Drupal.org and install the Fivestar module from http://drupal.org/project/ fivestar, as well as the Voting API module from http://drupal.org/project/ votingapi. Log in to your Drupal Commerce store's administration.

If you're looking for a simpler *thumbs up/thumbs down* approach to rating for your store, see the Rate module: http://drupal.org/project/rate.

How to do it...

Once you have installed the Fivestar module for Drupal, follow these steps:

1. Navigate to Site settings | Configuration | Fivestar:

CONTENT AUTHORING
Fences Configure default field wrapper.
• Fivestar Configure site-wide widgets used for Fivestar rating.
 Text formats Configure how content input by users is filtered, including allowed HTML tags. Also allows enabling of module-provided filters.
• Title settings Settings for the Title module.

2. Add a new voting tag called Product rating to the Tags field displayed as follows:

/oting tags	
Thoose the voting tags that will be available for node rating. A tag is simply a categ you only need to rate one thing per node, leave this as the default "vote". Fags *	ory of vote. If
vote, Product rating	
eparate multiple tags with commas.	

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- 3. Click on the **Save configuration** button and navigate to **Site settings | Structure | Content types**.
- 4. Find your **Product display** content type here, and click on the **edit** link in the **Operations** column:



5. Click on the **Manage fields** tab at the top of the screen:

Product di	splay			
Home 🕨 Admin	istration 🕨 Structure 🕨	Content types 🕨 Produc	tt display	
Edit	Manage fields	Manage display	Comment fields	Comment display

6. Scroll down to the **Add new field** block and complete the **Label** field with a sensible value (**Product rating** might be a good one), select **Fivestar Rating** as **Type of data to store**, and select the **Stars (rated while editing)** value for the **Form element to edit the data** field:

+ Add new field					
Product rating	field_product_rating [Edit]	Fivestar Rating	•	Stars (rated while editing)	•
Label		Type of data to store.		Form element to edit the data.	

7. Next the **Field settings** screen will appear. Select **Product rating** from the **Voting Tag** field dropdown and click on **Save configuration** again:

Field settings	
These settings apply	y to the <i>Product rating</i> field everywhere it is used. These settings impact the way that data is stored in the database
These settings apply and cannot be char	r to the <i>Product rating</i> field everywhere it is used. These settings impact the way that data is stored in the database ged once data has been created.
Voting Tag *	
Product rating	Y
vote	ect. Enter a property on which that this rating will affect such as <i>quality satisfaction, overall,</i> etc.
	ce. Enter a property on when that and taing win anece, sach as quality, subjuction, over an, etc.

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Further Configuration -

8. Select the number of stars that you wish customers should be able to rate from in the **Number of stars** field. **5** is the default number and is quite a common number of stars to use for ratings, so you can leave it as it is if you're happy with that:

5	*	

- 9. Click on the Save settings button to confirm your choices.
- 10. Now navigate to the **Manage display** tab, and scroll down until you see the **Product** rating field:

|--|

11. Click on the gears icon to the right to configure this display. Set the Value to display as stars field to Average vote, and set the Text to display under the stars as Average vote too:

+ Product	Above 🔻	Format settings: As Stars	
100016		• Star display options	
		Value to display as stars	
		Average vote	•
		Text to display under the stars	
		Average vote	•
		Update Cancel	

By displaying the average vote here, you're showing your customers the overall rating for the product, as decided by your other customers. This can be a great way to give customers the proof that they need to buy the product, and a good way to learn about which, if any, of your products are failing.



- 12. Click on the **Update** button to save your changes, and then the **Save** button to save your content type's settings.
- 13. Navigate to the product display's **Comment fields** tab at the top of the screen.
- 14. Use the **Add existing field** tool and add an appropriate **Label** value. From the **Field to share** dropdown list, select the **Fivestar Rating: field_product_rating (Product rating)** value that you created previously:

Add existing field				
Product rating	Fivestar Rating: field_product_rating (Product rating)	•	Stars (rated while editing)	•
Label	Field to share		Form element to edit the data.	

- 15. Leave the **Form** element to edit the data field as **Stars (rated while editing)**, and click on the **Save** button.
- 16. Next, you are presented with further options. You can provide some **Help text** to your customers:

Prod	ct display comment settings
These Labe	ettings apply only to the <i>Product rating</i> field when used in the <i>Product display comment</i> ty
Proc	ct rating
F	quired field
Help	ext
Нοι	would you rate this product? 1 star: poor. 5 star: excellent.

- 17. The **Star display** options block allows you to select the style of stars that you would like to use on your store; select your preferred value and continue.
- 18. Set the **Number of stars** field to 5, or the same number that you set when customizing the product display content type.
- 19. Set the Voting target value to Parent Node, and click on Save settings.
- 20. Click on the **Comment display** tab at the top-right of your screen, and click on the gears icon next to the **Product rating** field to change its settings.



Further Configuration _____

21. Change the Value to display as stars field to User's vote, and the Text to display under the stars as User's vote:

+ Product rating	Above	•	Format settings: As Stars		
			• Star display op	tions	
			Value to display as	stars	
			User's vote		-
			Text to display und	ler the stars	
			User's vote		-
			Update	Cancel	

22. That's it! If you view a product on your Drupal Commerce store now, you will see the **Product rating** field appear as follows:

Sample product
£24.99
This is a sample product in our Drupal Commerce store.
Quantity
₽Add to cart
Product rating: ☆☆☆☆☆

23. If you hover over the stars to vote here, you'll see that the stars are highlighted to indicate the rating that you're about to give:

Sample product
£24.99
This is a sample product in our Drupal Commerce store.
Quantity 1
₽ Add to cart
Product rating:

-160

Adding a contact form to your Drupal Commerce store

It's important to make yourself easily contactable when running an online store to help create trust between you and your customers. Would you make a purchase from a store that you couldn't contact?

Adding a contact form to your store provides an easy method for customers to get in touch with you about their orders and any queries about your products.

Getting started

Log in to your Drupal Commerce administration panel.

How to do it...

Getting your store's contact form up and running will involve a module and some configuration:

 Navigate to Modules and locate the Contact module listed in the Core modules group:



- 2. Click on the Save configuration button.
- 3. Find the **Contact** module in the list again and click on the **Permission** button to the right of it.
- 4. Here you will see three options. For the **Administrator contact forms and contact form** settings, ensure that only the **administrator** is checked:

Permission		authenticated user	administrator
Contact			
Administer contact forms and contact form settings			
Use the site-wide contact form			
Use users' personal contact forms			



Further Configuration -

5. For the **Use the site-wide contact form** setting, allow both **anonymous users** and **authenticated users** to use the contact form:



- 6. Click on the **Save Permissions** button and navigate back to **Modules**, locating the **Contact** module again.
- 7. Click on the **Configure** button to the right of the **Contact** module:



8. Here you will see the settings for the site-wide contact form for your Drupal Commerce store. As you can see, the default contact form **Category** is **Website feedback**. Click on the **Add category** button to create a new customer service contact category:

	*
Custome	r feedback
Example: We	bsite feedback' or 'product information'.
Recipient	s *
test@exa	imple.com
Example: 'we specify mult	ebmaster@example.com' or 'sales@example.com,support@example.com' . To ple recipients, separate each e-mail address with a comma.
Auto-repl	у
Optional aut	to-reply. Leave empty if you do not want to send the user an auto-reply
message.	
Weight	
Weight 0 When listing heavier (larg	, categories, those with lighter (smaller) weights get listed before categories with er) weights. Categories with equal weights are sorted alphabetically.
Weight 0 When listing heavier (larg Selected Yes	; categories, those with lighter (smaller) weights get listed before categories with er) weights. Categories with equal weights are sorted alphabetically.
Weight 0 Vhen listing heavier (larg Selected Yes Set this to Ye	; categories, those with lighter (smaller) weights get listed before categories with (er) weights. Categories with equal weights are sorted alphabetically.) (s If you would like this category to be selected by default.



- 9. Enter the **Category** title and an e-mail address (you can add multiple e-mail addresses to receive the message if they are separated by commas) in the **Recipients** field.
- 10. You can specify a message that customers submitting a message will automatically receive after sending their message in the **Auto-reply** field. This can be useful to inform them their message was received and let them know when you are likely to respond.
- 11. Finally, set the **Selected** field to **Yes** to make this the default contact category on your store's form.
- 12. Click on the **Save** button and return to the frontend of your store now.
- 13. Enabling the **Contact** module will add a link to your menu to the contact form's page automatically, so navigate to this page (by default, its URL is example.com/ contact) and you will see the contact form has appeared:

CONTACT	
Your name *	
admin	
Your e-mail address *	
test@example.com	
Subject *	
Testing message	
Category *	
Customer feedback 🔻	
Message *	
This is a message sent through the website's contact form.	
	1
🔲 Send yourself a copy.	
Send message	



Further Configuration -

Filtering UK postcodes or US ZIP codes from your Drupal Commerce store

There are certain types of store that may find it helpful to restrict the ability to order from particular regions of a country. This may be due to prohibitive delivery costs or different laws between states.

Drupal Commerce has a module that enables you to block orders either by a whitelist or blacklist of postcodes (for the UK) or ZIP codes (for the US). This recipe will take you through configuring the Commerce Postal Code Filter module to achieve this goal.

Getting started

Log in to your Drupal Commerce store administration panel. Download the Commerce Postal Code Filter module from Drupal.org at http://drupal.org/project/commerce_postal code filter.

How to do it...

To enable the filtering, you will need to install the module and configure it for your needs:

- 1. Install the Commerce Postal Code Filter module in your Drupal Commerce store and navigate to **Modules**.
- 2. Enable the module by checking the box. You will find it grouped under the **Commerce** (contrib) list of modules.

Commerce ✔ Postal Code 7.x-1. Filter
--

3. Click on the Save configuration button.



4. Now navigate to Store | Configuration, and click on the Postal code filter settings:



5. Select the country for which you wish to enable postcode or ZIP code filtering from the **Enable postcode filtering for these countries** field:

inable postcode filtering for these cour	ntries
United Arab Emirates	*
United Kingdom	
United States	
United States Minor Outlying Islands	-

6. This will load country-specific filter options for you. Enter the postcodes that you wish to filter in the **Postal code filter** field. This field accepts partial postcodes, so both NE1 and NE1 1AB would be accepted in this field. Separate multiple postcodes with a comma:

Filter settings	
United Kingdom	Postal code filter
	NE1
	Postal codes to be filtered, comma seperated. Partial postal codes are supported, e.g. PL, EX5

7. Next, you are presented with options about how you want to filter these postcodes.



Further Configuration -

8. If the **Filter mode** field is set to **Blacklist**, it prevents customers checking out if their postcode matches a value in the **Postal code filter** field. If the **Filter mode** field is set to **Whitelist**, then only postcodes that match values in the **Postal code filter** field are allowed to check out.

Filter mode *	
 Blacklist 	
O Whitelist	
Whether to "blacklist" or "whitelist" postcodes. If blacklisted, postcodes in the above filter will be prevented from completing checkout. If whitelisted, <i>only</i> postcodes that are in the above filter w be allowed to checkout	/ill

9. Below the Filter mode field, you will see the Addresses to filter field, which controls which addresses the postcode filtering applies to. If you select the Billing value here, the postcode filtering applies only to the customer's billing address (if provided). If you check the Shipping value, the postcode filtering applies to the shipping (delivery) address the customer specifies. You can check both the Billing and Shipping values to apply the postcode filters you have set up to both the billing and shipping addresses:

Addresses to filter Billing
Shipping
Which addresses should be filtered at checkout. Shipping requires commerce_shipping-2.x

- 10. Click on the Save postal code filter options.
- 11. You can also select **United States** from the **Enable postcode filtering for these countries** option. If you want to select multiple countries, simply hold down the *Shift* key as you select them.

Enable postcode filtering for these countr	ries
United Kingdom	*
United States United States Minor Outlying Islands	
Uruguay	*

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12. This will display the filter settings for all countries that you have selected:

Filter settings	
United Kingdom	
United States	

13. Select the United States tab to control the ZIP code filtering for this country, and you will see similar fields as for the United Kingdom postal code filters. In this way, you can filter as many countries' shipping and/or payment addresses for your store as you wish.

How it works...

The Commerce Postal Code Filter module enhances Drupal Commerce by allowing you to restrict the countries or areas within the countries that your store accepts orders from, preventing customers from making orders that you are unable to fulfill (for example, to countries to whom you can't ship orders). This can help you cut down on unnecessary administration of your online business, such as having to e-mail customers to explain why you can't process their order, and making refunds from payment gateways such as PayPal, WorldPay, or SagePay.

When a customer goes to check out from your store, the module ensures you will check against the list of postcodes or ZIP codes you have specified, and decide whether to allow the order or not based on the settings you made (for example, whether you've enabled the blacklist or whitelist, and the list of postcode or ZIP codes you've specified). If the whitelist is enabled, only addresses that fall within the postcodes that you've specified will be accepted, while if the blacklist is enabled, all orders will be accepted unless they're in the specified postcode or ZIP code areas.

The module allows you to specify whether you want to filter the billing or shipping address, so it's perfectly feasible to filter postcodes from customers in your Drupal Commerce store to prevent a customer having an order delivered to a specific postcode or ZIP code area while they are able to pay for the order from outside your chosen delivery radius. This may be useful when your store only delivers locally, but you want to be able to process payment from further afar (for example, for customers buying gifts).

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Further Configuration

Enhancing customer experience at checkout in Drupal Commerce with Ajax

As you've seen, Drupal Commerce is a great platform to start your e-commerce business with, but, as with any website, there are always things that you can do to enhance your store.

One of the more subtle enhancements you can make is with Ajax is that it allows customers to see their interactions (such as adding a product to the cart) happen without the entire web page having to reload.

Getting started

You will need to install the Commerce Cart Ajax module, which you can find at http://drupal.org/project/dc cart Ajax.

Log in to your Drupal Commerce store's administration panel.

How to do it...

Once you've installed the Commerce Cart Ajax module, follow these steps:

- 1. Navigate to Site settings | Views.
- In the list of Views that appear, locate the Shopping cart form view, and click on the Edit option to the right:

commerce Edit -	commerce	Display a shopping cart update form.	Shopping cart form None In code Type: Commerce Order
-----------------	----------	---	--

Alternatively, you can navigate to the /admin/structure/views/view/ commerce_cart_form/edit URL on your Drupal installation.

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In the Page display (selected at the top-left corner of the screen), expand the Advanced settings in the right-hand column:
 Displays Save Cancel

Display name: Page					14. 0
Display name. Page					View Page
TITLE		PAGE SETTINGS		▼ Advanced	
Title: Shopping cart		Path: /test-ajax-cart		© CONTEXTUAL FILTERS	Add 👻
FORMAT		Menu: No menu		Commerce Order: Order ID	7100
Format: Table Settings		Access: None			
© FIELDS	Add 👻	@ HEADER	Add	Commerce Order: Line items	Add 👻
(Line Item) Commerce Line item	n: Display path	© FOOTER	Add 👻	NO RESULTS BEHAVIOR	Add
(Line Item) Commerce Line Item	n: Title	Commerce Order: Order total			
(Line Item) Commerce Line item	Product	PAGER		EXPOSED FORM	
Global: Custom text		Use pager: Display all items All items		Exposed form in block: No	
(Line Item) Commerce Line item	: Unit price (Price)	More link: No		Exposed form style: Basic Set	ttings
(Line Item) Commerce Line Item	: Quantity text field			OTHER	
(Quantity)				Machine Name: page_1	
(Line Item) Commerce Line Item	: Delete button			Comment: No comment	
(hernove)	v Total (Total)			Use AJAX: No	
(Line item) commerce line item	i. Total (Total)			Hide attachments in summary: N	10
© FILTER CRITERIA	Add 👻			Hide contextual links: No	
(Line Item) Broken/missing hand	dler (= 1)			Use aggregation: No	
SORT CRITERIA	Add 👻			Query settings: Settings	
(Line Item) Commerce Line Item	: Line item ID (asc)			Field Language: Current user's la	anguage
				Caching: None	
				CSS class: None	

4. Toggle the **Use AJAX** value to **Yes**; a pop-up appears asking if you want to use Ajax:

Page: Use AJAX when available to load this view	e
For All displays	
If set, this view will use an AJAX mechanism for paging, table sorting and exposed filters. This means the entire page will not refresh. It is not recommended that you use this if this view is the main content of the page as it will prevent deep linking to specific pages, but it is very useful for side content.	15 III
○ No	
Apply (all displays) Cancel	



Further Configuration -

- 5. Set the **For** field's dropdown to **All displays**, and ensure you've selected the **Yes** radio button.
- 6. Click on the **Apply (all displays)** button, and then click on the **Save** button on the views page to save all of your changes here.
- 7. To check it's functioning fully, you can test the two behaviors on your store it has affected:
 - The **Remove** button on your cart page
 - The **Update** button on your cart page
- 8. Using the **Update** button, check whether the module is functioning as desired. Navigate to the frontend of your Drupal Commerce store and add products to your shopping cart.
- 9. View the cart page once you have added products to your shopping cart (you can get there by clicking on the **Checkout** button, which is located in the top-right corner of your screen in Drupal Commerce's default theme).
- 10. Once viewing your cart page, you will see the product(s) that you have added to your cart:

RUPALCOMMERCE			Search	Q
Sample Category 1 Sam	ple Category 2 All F	Products		Contact About
SHOPPING CAI	кт			
	PRICE	QUANTITY	REMOVE	τοτα
SKU: sample1 £19.20 Status: Active View product	£19.20	10	Remove	£192.0
			Subtotal	£160.00
			VAT	
			Order total	£192.00
			Upda	te cart Checkout

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- Subtotal
 £160.00

 VAT
 £32.00

 Order total
 £192.00

 Update cart
 Checkout
- 11. Change the value in the **Quantity** field in the cart, and click on the **Update cart** button that is next to the **Checkout** button at the bottom-right corner of the screen:

12. Once you click on this, you'll see an animated "loading" image appear next to the **Update cart** button if the module is functioning correctly; this means Drupal Commerce is updating the values that it needs to in your cart, without reloading the full page as it would have done without this module installed:

			Search	٩,
Sample Category 1 Sa	mple Category 2 All	Products	Cor	ntact About
SHOPPING CA	RT			
	PRICE	QUANTITY	REMOVE	TOTAL
SKU: sample1 £19.20 Status: Active View product	£19.20	10	Remove	£192.00
			Subtotal	£160.00
			VAT	
			Order total	£192.00
			Update cart	Checkout

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Further Configuration -

How it works...

Installing the Commerce Cart Ajax module enables Drupal to update elements within a page without having to reload the entirety of the page. This can be a good way to reduce load on your server, as it reduces the amount of information being sent, and it can also make it easier and quicker for customers to use your store.

Using JavaScript, **Ajax** (**Asynchronous JavaScript and XML**) calls the relevant values it needs to update asynchronously in the background, without reloading the page. The new values are then updated in the relevant area of the page once they're found or calculated and sent back to the customer's browser.



A Blueprint for a T-shirt Store in Drupal Commerce

This appendix covers the customization and development of a t-shirt store in Drupal Commerce, including the following:

- Creating a t-shirt product type
- ► Embedding videos on Drupal Commerce products
- ▶ Creating a 10 percent offer in Drupal Commerce

Introduction

This book contains what you need to get your Drupal Store up and running, and this chapter pulls the vital ingredients for a t-shirt store together with some tasks that will be common to many stores, from embedding videos on product pages to allowing customers to customize their products.

Creating a t-shirt product type

As you have seen, Drupal Commerce provides a lot of flexibility when it comes to products. By adding additional fields to your installation's product's display, you can customize your store to support a custom "t-shirt" product type with size and color attributes. In this recipe, you will be learning about creating a t-shirt product type for your Drupal Commerce store.

A Blueprint for a T-shirt Store in Drupal Commerce -

Getting started

Before you begin, it's a good idea to have a list of the attributes that you want to have for the custom t-shirt product type. This example will add the following fields:

- Size: From a selection of small, medium, and large
- **Color**: From a selection of blue, red, yellow, and purple

How to do it...

Log in to your Drupal Commerce administration panel, navigate to **Products** | **Variation** types, and follow these steps to create a custom product type for t-shirts in your store:

1. Click on the Add product variation type button:

commerce ⊵ kickstart.	Reports	Products	Orders	Content	Store settings	Site settings	Help	Hello admin	Log	
					My accor	unt Log out	1	Empty £0.0	0	Checko
Variation ty	/nes							(×	
Home Administra	tion ► Stor	e settings 🕨	Product set	tings 🕨 Varia	ation types					٩
+ Add produ	ict variatio	on type								
1 Add prode		Sirtype								About
Each product dis matching produ	splay must ct variatior	: have one o h type.	r more pr	oduct varia	itions, which is w	/hy each produ	ct displa	y type has a		
Different produc well as any othe	ct variation r informat	types have ion.	different	fields, used	d for storing ima	ges, attributes s	such as c	olor and size, as	5	

2. Give the new product type a title by entering a suitable value in the Name field:

Name *	
T-shirts	Machine name: t_shirts [Edit]
The human-readable name of this p and contain only letters, numbers, a	product type. It is recommended that this name begin with a capital letter and spaces. This name must be unique.
Description	· · ·
Description T-shirts for sale.	



- 3. Leave the **Default product variations of this type to be saved as new revisions when edited** checkbox checked, if you want Drupal Commerce to save a new revision of the variation each time you edit it.
- 4. Check the **Create matching product display type** checkbox if you want to create a Drupal Commerce product display type to display the products created using this product variation type.
- 5. Click on the Save and add fields button:



6. You will now see the **Product variation type saved** message, and a list of fields associated with your new t-shirt product type:

			Edit	Manage field	ds Ma	anage disp
			_	·	_	
Product variation	on type saved.					
					Sh	iow row we
Label	Machine name	Field type		Widget	Operat	ions
Product SKU	sku	Product module SKU form ele	ement			
⊕ Title	title_field	Text		Text field	edit	delete
+ Price	commerce_price	Price		Price with currency	edit	delete
+ Status	status	Product module status form	element			
+ Add new field						
		- Select a field type -	•	- Select a	widget -	•
Label		Type of data to store.		Form elemer	nt to edit th	e data.
+ Add existing fiel	d					
	- Select an existing	field -	•	- Select a	widget -	•
Label	Field to share			Form elemer	nt to edit th	e data.

7. Using the **Add new field** block, you can begin to customize this product type.



A Blueprint for a T-shirt Store in Drupal Commerce -

8. Populate the Label field with T-shirt size, and then select List (text) from the Type of data to store field, leaving the Form element to edit the data field as Select list:

T-shirt size	field_	tshirt_size	List (text)	*	Select list	
Label	A uniqu name o numbe	ue machine-readable containing letters, ers, and underscores	Type of data to store.		Form element to edit the	e data.

9. Now click on **Save**, and you'll be presented with the **Allowed values list** field on the **Field settings** tab; enter one value per line, using a vertical pipe (|) to separate a value from a label. For example, enter the following:

```
Medium-sized t-shirt | Medium
```

Entering the preceding value will present the customer with the option of **Medium** on the frontend of your store, while internally in the Drupal Commerce administration panel it will appear as **Medium-sized t-shirt**. The label is optional, so you can just enter one value per line if you prefer. The settings in the example are as follows:

- Small
- Medium
- Large

The preceding values means that you will see the relevant label (that is, **Small**, **Medium**, or **Large**) displayed both in the Drupal Commerce administration panel and as a customer on the frontend of your store. This system means you can provide your customers, with slightly different information to help them make an informed choice about the product they're buying.

					0 71	
Field settings						
These settings apply to	o the <i>T-shirt size</i> f	eld everywhere it is u	used. These settings in	pact the way that dat	a is stored in the dat	tabase
and cannot be change	d once data has	peen created.	0	-		
Allowed values li	st					
Small						
Medium						
1						
Large						
Large						
Large						
Large	is field can conte	n Enter one value n	er line, in the format 4	evilabel		
Large The possible values th The key is the stored v	is field can conta alue. The label wi	n. Enter one value p ll be used in display:	er line, in the format k ed values and edit forr	ey label. ns.		
Large The possible values th The key is the stored v The label is optional: if	is field can conta alue. The label wi f a line contains a	n. Enter one value p I be used in displaye single string, it will b	er line, in the format k ed values and edit forr be used as key and lab	ey label. ns. el.		
The possible values th The key is the stored v The label is optional: if Allowed HTML tags in 1	is field can conta alue. The label wi ? a line contains a labels: <a> <{	n. Enter one value p l be used in displaye single string, it will b sig> <code> <€</code>	er line, in the format k ed values and edit forn e used as key and lab em> <i> <ins> <pre> <c< td=""><td>ey label. ns. al. > <small> <st< td=""><td>rong> _[·]</td><td><tt> <0</tt></td></st<></small></td></c<></pre></ins></i>	ey label. ns. al. > <small> <st< td=""><td>rong> _[·]</td><td><tt> <0</tt></td></st<></small>	rong> _[·]	<tt> <0</tt>
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- 10. Click on the Save field settings button to save your changes.
- 11. Leave the **Default value** set as **None** to prevent customers from ordering the wrong sized t-shirt:

Default v	alue		
The defau T-shirt si :	t value for this field, e	used when creating new content.	
- None -	•		

12. Check the **Attribute field settings** checkbox so it is enabled, which allows the dropdown to be shown on the "add to cart" features of Drupal Commerce, so customers can pick their t-shirt size:

A	Attribute field settings
S V te	ingle value fields attached to products can function as attribute selection fields on Add to Cart forms. Vhen an Add to Cart form contains multiple products, attribute field data can be used to allow customers o select a product based on the values of the field instead of just from a list of product titles. ☑ Enable this field to function as an attribute field on Add to Cart forms.
A	Attribute selection widget
0	Radio buttons
т	he type of element used to select an option if used on an Add to Cart form.

13. Leave the Number of values field set to 1 in the T-shirt size field settings block (you only want customers to pick a t-shirt of one size), and click on the Save settings button again:



14. You'll be returned to the **Manage fields** tab, where you can repeat steps 3 to 13 to add a color attribute for your t-shirts.



A Blueprint for a T-shirt Store in Drupal Commerce -

15. Once you've done that, you should be able to see the new **T-shirt colour** field listed in the **Manage fields** tab:

÷	T-shirt size	field_tshirt_size	List (text)	Select list	edit	delete
÷‡•	T-shirt colour	field_tshirt_colour	List (text)	Select list	edit	delete

- 16. Your new product type is now ready, and you can add products of this type. Navigate to **Products** | **Add a product**.
- 17. Next, select the **T-shirts** link that will appear in alphabetical order at the bottom of the list:



18. Populate the form that appears next, entering a SKU, Title, and Price for the product and selecting the **T-shirt size** and **T-shirt colour** values:

cie							
Designer	blue t-shirts						
field repla	cing node title.						
dd new	v variation						
Attribu	ites						
T-shirt	size Small	▼ T-s	hirt colour	Purple	•		
Details							
SKU *	TSHIRT-PURPL	E-SMALL					
Supply a	unique identifier (using letters, n	umbers, hyph	ens, and une	lerscores. Comn	nas may not be us	ied.
		GBP	Status *	Active	Disable	d	



19. Ensure that the **Status** field is set to **Active** so that you (and the customers on your store) are able to view the products.



Note that store administrators will still be able to view disabled products.

- 20. Click on the **Save variation** button, and add more products for each size/color combination that your store are available in your store for selling.
- 21. Now navigate to **Store settings** | **Variation types**, and select the **manage fields** option for the **Tshirts** content type that you created in the previous steps:

Tshirts (Machine name: tshirts)	Yes	edit	manage	manage	delete
			TIEIdS	uispiay	

22. That's it! Your t-shirt product type is up and running.

How it works...

Drupal Commerce allows you to add your own custom fields to product types so that you can assign your own attributes to different types of products within your store. So, using the preceding method, your store could sell t-shirts using a t-shirts product type that allows customers to select the size and color of their t-shirt. It could also sell teapots using a teapot product type, and allow customers to pick the capacity of the teapot they are buying instead.

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A Blueprint for a T-shirt Store in Drupal Commerce —

The new t-shirt product type that you just created will display the products to your customers in a similar way:

Purple t-shirt
Title: Purple t-shirt tests (Medium) £11.99
Product variations:
Medium 👻
Enter Quantity : 1
Add to cart 🛒
Like 0 Tweet 0
Images:

Note the drop-down list that allows customers to pick their preferred size of t-shirt. If you change this to **Small**, the values that are different in the small t-shirt product variation will change too:

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In particular, you can see that the product image has changed, and the price is updated.

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A Blueprint for a T-shirt Store in Drupal Commerce _

Embedding videos on Drupal Commerce products

With the growing uptake of higher bandwidth Internet connections throughout the world, video is becoming increasingly accessible as a means of displaying your products.

Adding a video of your products to your website can be a great way of showing your product to customers from more angles, as well as giving you a chance to provide narration about the features and benefits of your products.

Getting started

Log in to your Drupal Commerce store's administration panel.

How to do it...

Now that you are logged in to Drupal Commerce as an administrator, perform the following steps:

- 1. Navigate to **Products** | Manage products.
- 2. Click on the **edit** link in the **Operations** column of the product that you want to add the video to:

Title	Туре	Author	Status	Updated 🔹	Operations
T-shirt	Product display	admin	published	12/01/2012 - 18:52	edit delete

- 3. Now that you're editing the product, you will see the **Body** field that contains the description of the product.
- 4. Navigate to www.youtube.com (or other video sharing website) and locate the video of your product that you want to embed.



You'll need a YouTube account to upload videos, but don't worry, it's free to sign up.

5. Navigate to the **Share** tab on YouTube.com, and then select the **Embed** tab to reveal the HTML to embed this video:



Appendix

Share this video	Embed	Email	Hangout 🛛		
hare this video	Embed	Email	Hangout 🖻		

6. The HTML will look similar to the following:

```
<iframe width="420" height="315" src="http://www.youtube.com/
embed/895eSm4oQRw" frameborder="0" allowfullscreen></iframe>
```

7. Return to your Drupal Commerce administration panel, and insert this HTML into your page where you want the video to appear:

Body	
This is our premium t-shirt on 100% cotton t-shirts. Check out our video of the t-shirt in action:	
<ii>rame width="420" height="315" src="http://www.youtube.com/embed/895eSm4oQRw" frameborder="0" allowfullscreen></ii>	

8. Finally, click on the **Save** button at the bottom of this screen ensuring that full HTML is allowed to be posted within your product display's **Body** fields, and return to your store's frontend to view the product as a customer would see it.

How it works...

You can use videos that you have uploaded to video sharing websites such as YouTube on your website by embedding them with the code that YouTube provides on its **Share** tab.



Note that you'll only be able to embed videos that aren't protected on YouTube.

Video can be a great way to demonstrate your product to potential customers and give them a better understanding of what they can expect from their purchase.



A Blueprint for a T-shirt Store in Drupal Commerce -

Creating a 10 percent offer in Drupal Commerce

You've probably seen 5 percent, 10 percent, and 20 percent discounts all over the web on various e-commerce stores, and you too can add one to your own e-commerce website to entice customers to buy from you.

This recipe will guide you through adding a 10 percent discount off on all customer orders in your Drupal Commerce store.

Getting started

Make sure you're logged in to your Drupal Commerce website's administration panel.

How to do it...

Once you're logged in, follow these steps to add a percentage-off promotion to your Drupal Commerce store:

- 1. Navigate to Store settings | Discounts, and you will see the Discounts screen.
- 2. Click on the **Add discount** button towards the top-left corner of your screen:

Discounts	Store settings ► Prom	notions 🕨 Discoun	ts			
+ Add discount	+ Import discou	unt				
Offer		Type - Any -	•	Enabled	•	Reset
Offer	Туре		Status		Start date	

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3. You can now start creating your promotion. Fill the **Admin title** field in with a suitable value, and select the **Order Discount** radio button in the **Choose discount type** block:





4. The next option down the screen is the **Choose offer type** block; select the % **off** radio button here, and enter a value of **0.1** in the **Percentage** field:

Choose offer type	
◯ \$ off	
• % off	
Percentage *	
0.1	
The percentage used to ca	Iculate this tax expressed as a decimal, e.g06 for a rate of 6%.

The **Percentage** field needs to be a decimal value, so **10%** if represented as **0.1**, while **5%** would be represented as **0.05** here, and **25%** would be represented as **0.25**.

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A Blueprint for a T-shirt Store in Drupal Commerce —

5. If you wish to run your promotion for a limited amount of time, use the **Start date** and **End date** fields to set the period for which you want to run the offer:

Discount da	ates								
Start date	06/01/2013	End date	06/14	4/201	13				
			0	Jun		• 20	13	•	0
Discount st	atus		Su	Мо	Tu	We	Th	Fr	Sa
Enabled	•								1
			2	3	4	5	6	7	8
Save di	scount		9	10	11	12	13	14	15
Jave u	scount		16	17	18	19	20	21	22
			23	24	25	26	27	28	29

6. Check whether the **Discount status** field is set to **Enabled** (its default value). Now click on the **Save discount** button at the bottom of the screen:

Discount s	tatu	IS
Enabled		
Enabled	•	
Save d	lisco	unt
Saveu	iscu	Juni

 To test your newly added promotion, navigate to the frontend of your Drupal Commerce store, and go through the checkout process; you will see the 10 percent discount applied:

Subtotal		£9.99
Discount		-£1.20
VAT		£2.00
Order total		£10.79
	Update cart	Checkout

By default, Drupal Commerce will only apply the discount to the product's cost (excluding any taxes that you have set up). You can apply the discount to shipping costs as well in the **Settings** tab, available on the **Discounts** screen at **Store settings** | **Discounts**.



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