

## Drupal 8 User Guide

**Drupal™**

**USER GUIDE**

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# **Drupal 8 User Guide**

## **Abstract**

This guide was written mainly for people with minimal knowledge of the Drupal content management system. The topics will help them become skilled at installing, administering, site building, and/or maintaining the content of a Drupal-based website. The guide is also aimed at people who already have some experience with a current or past version of Drupal, and want to expand the range of their skills and knowledge or update them to the current version.

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# Preface

## i.1. Copyright

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## i.2. Audience and Goal

This guide was written mainly for people with minimal knowledge of the Drupal content management system. The topics will help them become skilled at installing, administering, site building, and/or maintaining the content of a Drupal-based website. The guide is also aimed at people who already have some experience with a current or past version of Drupal, and want to expand the range of their skills and knowledge or update them to the current version.

This guide assumes that you have already decided you want to learn and use Drupal. If you need to learn more before deciding, see [Section 1.1, "Concept: Drupal as a Content Management System"](#).

Depending on which aspects of Drupal you would like to learn, you will need some background knowledge to understand this guide: general Internet skills and knowledge are

assumed, and the guide concentrates on how to use the software itself. For instance, the sections about installing Drupal on a web server assume you can obtain web hosting and figure out how to transfer files to your chosen web host. Similarly, the sections about content management assume you can log into a website and fill in a web-based form.

After reading this guide, you should be able to:

- Plan the content architecture for a Drupal-based site
- Build the site that you planned
- Manage and administer your site
- Understand documentation and blog posts on topics not covered here, to expand your knowledge and skills
- Connect with the worldwide Drupal community

### Attributions

Written by [Jennifer Hodgdon](#).

## i.3. Organization

This user guide contains a series of topics, each of which covers either a *task* (how to do something) or a *concept* (background knowledge, terminology, and the like). Concept topics have names starting with *Concept:*, while task topics have names containing verbs, like *Editing Basic Site Information*.

The topics are grouped into chapters in a logical order, with concepts and tasks interleaved so that concepts are presented before related tasks, and tasks build on each other. To take advantage of this, you are encouraged to read the entire guide in its presented order, possibly skipping topics that are not of interest or that present information you already know. Remember to try out the tasks on your own site as you read the guide; most people learn better by doing rather than reading.

If you prefer, you can also use the index or table of contents to jump straight to a topic that you'd like to learn about, rather than reading the entire guide. To facilitate this approach, each topic lists the prerequisite knowledge that you'd need in order to understand it, if any (with links to the topics that present that knowledge); task topics also list *site prerequisites* (things that you would need to have configured or created on your site in order to perform the task). Also, most topics have sections at the end where you can find related information and/or tasks for expanded understanding, to continue your learning.

You may also want to refer to the [Glossary](#) section as you read — it gives brief definitions of most of the terminology used in the guide, with links to topics having more detailed explanations.

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## i.4. Reporting Problems

### Goal

Report a problem with this guide, such as:

- Information that is incorrect or does not follow best practices
- Steps that do not work
- Screen shots or text that doesn't match what you see on the screen
- Unclear writing
- Places where a table or screen shot would help clarify the text
- Failure to define terminology
- Missing knowledge prerequisites or site prerequisites for a topic
- Typographical, spelling, grammar, or formatting errors
- Broken links

### Steps

1. Make a note of the topic or topics that contain the problem you have found.
2. Log in to [Drupal.org](#) (you will need to create a user account if you do not already have one).
3. Visit the [User Guide issues page on Drupal.org](#).
4. Verify that the problem you found has not already been reported in another issue:
  - If there are only a few open issues, scan the *Summary* column to see if any of their descriptions match the problem you found. You may also need to read some of the issues to make sure, which you can do by clicking the links in the *Summary* column.
  - If the open issue list is long, enter either a keyword related to the problem you found or the title of the topic where the problem occurs in the *Search for* box, and click *Search* to reduce the issue list. Then either scan the summaries or read the issues to see if they match your problem.
5. If you determine that your problem has not already been reported, click *Create a new issue*, and fill in the issue report as follows:

Field name	Explanation	Example value
Title	Short summary of the problem you found	Instructions in "Adding a Content Type" do not work
Category	Type of issue being reported	Bug report
Version	Version of the guide you found the problem in	8.x-0.x-dev

Field name	Explanation	Example value
Issue summary	Details of the problem you found	In the "Adding a Content Type" topic, in step 3, when I clicked <i>Save</i> , I got the following error message: ...

6. Reread the *Title* and *Issue summary* you entered, and verify that the following information is included in your report:
  - A complete description of the problem you found
  - The name of the topic or topics where you found the problem
  - The language you are reading the guide in (if not English)
  - If you read the guide on a website, a link to the page or pages with the problem
7. Click *Save* to create the issue.
8. Check back on the issue in a few days. If one of the project maintainers has asked for clarification, respond by adding a comment to the issue.

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## i.5. Conventions of the Guide

### Assumptions and prerequisites

This guide has the following assumptions and prerequisites:

- This guide is organized into topics; see [Section i.3, "Organization"](#) for details. Many topics include a *Prerequisite knowledge* section, which lists other topics whose content knowledge is needed in order to understand the topic you are reading. Some background knowledge that is not covered in the guide is also assumed; see [Section i.2, "Audience and Goal"](#) for details.
- Many task topics list *Site prerequisites*, which are tasks that you'll need to have completed on your site before you'll be able to do the task in the topic you are reading.
- The specifics of the site prerequisites relate to the scenario used throughout this guide of building a site for a farmers market (see [Section i.6, "Guiding Scenario"](#) for details). You can adapt the tasks to your own scenario, but you will also need to remember the changes you made when deciding if your site satisfies the site prerequisites for a task.
- For all task topics after [Section 3.4, "Running the Installer"](#), there is also an implicit prerequisite: you must have installed the content management software on your site, and be logged in to a user account with sufficient permissions to do the task (such as the user account created when you installed your site, which automatically has full permissions).

- If you read all the topics in order, and perform all of the steps in the task topics as you go (staying logged in), you should have the background knowledge and site prerequisites in place for each topic as you read it.

## Text conventions

The following conventions are used in the text of this guide:

- The URL *example.com* means the base URL of your website. See the Navigation section below for more details on how URLs internal to your site are indicated.
- Text you should see in the user interface of your site is shown in *italics*, such as: Click *Save configuration*. This only applies to text in the user interface that comes from the software, not to text that was entered in a previous topic. For example, in a topic about editing, you might see this instruction: Click *Edit* in the row of the About page (*Edit* would be in *italics*, but *About* would not be, because the About page was created in a previous topic).
- URLs, file names, and newly-introduced terminology are also shown in *italics*.
- Text that you should type at a shell command line is shown in monospace type, such as:

```
drush cr
```

- Within this guide, the word *directory* is always used to refer to file directories (which some people prefer to call *folders*).

## Navigation

To do most of the task topics in this guide, you will need to navigate to one or more pages in the administrative interface of your site. You might see something like this in the instructions (this will make more sense after you have the base software installed):

In the *Manage* administrative menu, navigate to *Structure > Taxonomy* (*admin/structure/taxonomy*).

Navigation instructions like this assume that you have the core Toolbar module installed, and this example means that in the menu bar at the top of your site, you would need to click *Manage* to expose the menu choices, then click *Structure*, then *Taxonomy*, and that at the end, you would be on a page with URL *http://example.com/admin/structure/taxonomy* (if your site base URL is *http://example.com*).



Here's another example:

In the *Manage* administrative menu, navigate to *Configuration > System > Basic site settings* (*admin/config/system/site-information*).

In this example, after clicking on *Manage* and *Configuration*, you would need to find the *System* section of the page, and within that, click *Basic site settings*. After that, you'd end up on *http://example.com/admin/config/system/site-information*.

**SYSTEM**

---

⌚ **Basic site settings**  
Change site name, email address, slogan, default front page, and error pages.

---

⌚ **Cron**  
Manage automatic site maintenance tasks.

One other note: if you are using the standard administrative core Seven theme, many "Add" buttons in the administrative interface are displayed with + signs on them. For instance, on admin/content, the Add new content button appears as + *Add new content*. However, this is theme-dependent and is not really part of the text on the button (for instance, it would not necessarily be read by a screen reader), so in this guide, the convention is to not mention the + sign on the buttons.

## Filling in forms

Many of the task topics in this guide include steps where you will fill out a web form. In most cases, a screen capture image of the form will be included, along with a table of the values you will need to enter into each form field. For example, you might see a table that starts out like this, explaining the site information form you would see if you navigated to *Configuration > System > Site information* (admin/config/system/site-information):

Field name	Explanation	Example value
Site details > Site name	Name of your site	Anytown Farmers Market

To use this table, find the field labeled *Site name* in the section that is under *Site details* in the form, and enter the name of your site in this field. An example site name of "Anytown Farmers Market" is suggested in the table, which relates to the scenario of building a website for a farmers market that you'll find all through this guide (see [Section i.6, "Guiding Scenario"](#) for details). Also note that on some forms, you might have to click a section title (like *Site details* in this example) to expand the section and find the field it contains.

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## i.6. Guiding Scenario

When reading this guide, it is helpful to have a website building project in mind. The following project scenario provides context and links together the examples in this guide:

You are making a website for a farmers market. The site needs to display information about the location and hours of the market, and an About page with the history of the market. It also needs to list the vendors. Vendors should be able to edit their listings (including a logo or photo), and post recipes. Site visitors should be able to browse recipes, or locate recipes using ingredients that they purchased at the market. Some visitors to your site speak another language, so the main pages and vendor pages need to be translated.

As you read through the guide and try out the tasks it describes, you may choose to follow the scenario exactly; you could also modify the tasks to suit your purposes. If you do want to follow the scenario exactly, you'll find that you need some image files, which are located in the *assets* directory of the .zip or .tgz file download available on the [User Guide project page](#).

### **Attributions**

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# Chapter 1. Understanding Drupal

## 1.1. Concept: Drupal as a Content Management System

### What is a Content Management System?

A content management system (CMS) is a software tool that lets users add, publish, edit, or remove content from a website, using a web browser on a smartphone, tablet, or desktop computer. Typically, the CMS software is written in a scripting language, and its scripts run on a computer where a database and a web server are installed. The content and settings for the website are usually stored in a database, and for each page request that comes to the web server, the scripts combine information from the database and assets (JavaScript files, CSS files, image files, etc. that are part of the CMS or have been uploaded) to build the pages of the website.

The combination of the operating system that the CMS runs on, the scripting language it is written in, the database it stores its information in, and the web server that runs the scripts to retrieve information and return it to the site visitor's web browser is known as the *stack* that the CMS runs on; the commonly used combination of the Linux operating system, Apache web server, MySQL database, and PHP scripting language is known as the *LAMP stack*.

### What is Drupal?

Drupal is a flexible CMS based on the LAMP stack, with a modular design allowing features to be added and removed by installing and uninstalling *modules*, and allowing the entire look and feel of the website to be changed by installing and uninstalling *themes*. The base Drupal download, known as Drupal Core, contains the PHP scripts needed to run the basic CMS functionality, several optional modules and themes, and many JavaScript, CSS, and image assets. Many additional modules and themes can be downloaded from the [Drupal.org](https://www.drupal.org) website.

Drupal can also run on other technology stacks:

- The operating system can be Windows or Mac OS instead of Linux.
- The web server can be Nginx or IIS instead of Apache.
- The database can be PostgreSQL or SQLite instead of MySQL, or a MySQL-compatible replacement such as MariaDB or Percona.

Other operating systems, web servers, and databases can also be made to work; however, the scripts that the software uses are written in PHP, so that cannot be changed.

## What are the reasons for using Drupal?

When building a website, you have your choice of using one of the many existing CMS packages and hosted services, developing your own CMS, or building the site without using a CMS. Here are some of the reasons you might choose to use Drupal:

- Building a small, simple site with static HTML pages is not difficult, and you can get a simple site up very quickly. Setting up a site in a CMS generally requires more time initially, but brings you the benefits of on-line editing (easier for less experienced content maintainers), uniformity (harder to maintain using static HTML for larger sites), and the possibility of more complex features requiring a database.
- Some CMS software is special-purpose; for instance, there are packages and hosted services that you can use to build a blog or a club membership website. Drupal, in contrast, is a general-purpose CMS. If you are building a special-purpose site, you might choose to use a special-purpose CMS; however, if your site falls even slightly outside the intended purpose, you will probably be better off using a general-purpose CMS rather than trying to adapt a special-purpose CMS.
- Building your own CMS-type software can seem attractive. However, using a general-purpose CMS like Drupal as a starting point is usually a better idea, because the basic CMS functionality (such as user accounts and content management) has thousands of developer hours behind it, including many years of user testing, bug fixing, and security hardening.
- Some CMS software packages are expensive to purchase a license for. Some are free or have a free version, but have restrictive licenses that do not allow you to make modifications and extensions. You might prefer to use a package (like Drupal) that has a less restrictive software license, and is developed by a world-wide community. See [Section 1.6, "Concept: The Drupal Project"](#) for more on this topic.

## Related topics

- [Section 1.2, "Concept: Modules"](#)
- [Section 1.3, "Concept: Themes"](#)
- [Section 1.4, "Concept: Distributions"](#)
- [Section 1.6, "Concept: The Drupal Project"](#)

## Additional resources

- [The Drupal overview](#)
- [Drupal.org page "FAQ" \(Frequently Asked Questions\)](#)
- [Drupal.org page "Case Studies"](#)
- [Wikipedia page "Content management systems"](#)
- [Wikipedia page "Modular design"](#)

## Attributions

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## 1.2. Concept: Modules

### Prerequisite knowledge

[Section 1.1, "Concept: Drupal as a Content Management System"](#)

#### What is a module?

A module is a set of PHP, JavaScript, and/or CSS files that extends site features and adds functionality. You can turn the features and functionality on by *installing* the module, and you can turn it off by *uninstalling* the module; before uninstalling, you may need to remove data and configuration related to the feature or functionality. Each module that is installed adds to the time needed to generate pages on your site, so it is a good idea to uninstall modules that are not needed.

The core download provides modules for functionality such as:

- Managing user accounts (the core User module)
- Managing basic content (the core Node module) and fields (the core Field and Field UI modules; there are also core modules providing field types)
- Managing navigation menus (the core Menu UI module)
- Making lists, grids, and blocks from existing content (the core Views and Views UI modules)

You can download additional *contributed modules* from the [Drupal.org Module Downloads](#), or create your own *custom modules*.

#### Related topics

- [Section 1.3, "Concept: Themes"](#)
- [Section 1.4, "Concept: Distributions"](#)
- [Section 4.4, "Uninstalling Unused Modules"](#)
- [Section 11.1, "Finding Modules"](#)
- [Section 11.3, "Downloading and Installing a Module from Drupal.org"](#)
- [Section 13.3, "Concept: Security and Regular Updates"](#)
- [Section 13.6, "Updating a Module"](#)

#### Additional resources

[Drupal.org community documentation page "Module developer's guide"](#)

## Attributions

Written by [Jennifer Hodgdon](#).

# 1.3. Concept: Themes

## Prerequisite knowledge

[Section 1.1, "Concept: Drupal as a Content Management System"](#)

### What is a Theme?

A theme is a set of files that define the visual look and feel of your site. The core software and modules that run on your site determine which *content* (including HTML text and other data stored in the database, uploaded images, and any other asset files) is displayed on the pages of your site. The theme determines the HTML markup and CSS styling that wraps the content.

The core software provides several basic themes with the core distribution. These themes have largely been designed and built by the community over the last several years and will all be good choices for building your first sites and becoming more familiar with how the core software works.

Drupal is a well-established CMS so the market for 3rd party themes - both free and paid - is very robust.

If none of the 3rd party options suit your needs, you'll need to create a custom theme. A custom theme can be as simple as a single CSS file that adds styling to the markup provided by the core software. Guidance for creating custom themes in Drupal 8 can be found in the [Drupal.org community documentation page "Theming Drupal"](#).

## Related topics

- [Section 11.4, "Finding Themes"](#)
- [Section 11.5, "Downloading and Installing a Theme from Drupal.org"](#)
- [Section 1.2, "Concept: Modules"](#)

## Additional resources

[Drupal.org community documentation page "Theming Drupal"](#)

## Attributions

Written and edited by [John Grubb](#) and [Jennifer Hodgdon](#).

## 1.4. Concept: Distributions

### Prerequisite knowledge

- [Section 1.1, "Concept: Drupal as a Content Management System"](#)
- [Section 1.2, "Concept: Modules"](#)
- [Section 1.3, "Concept: Themes"](#)

### What are Distributions?

*Distributions* provide site features and functions for a specific type of site as a single download containing the core software, contributed modules, themes, and pre-defined configuration. A distribution makes it possible to set up a complex, use-specific site in fewer steps than installing and configuring elements individually.

There are two main types of distributions:

#### Full-featured Distributions

A full-featured distribution is a project that provides a complete solution to set up a site for a specialized purpose such as academic, business, government, nonprofit, publishing, social, etc. For example, you could use an existing distribution for farmers markets to build your own website, or you could share your set-up for the farmers market site as a distribution for others to use.

#### Other Distributions

Distributions can also be quick-start tools that developers and site builders can use as a starting point.

### Related topics

[Section 14.1, "Connecting with the Community"](#)

### Additional resources

[Drupal.org Drupal Distribution Downloads](#)

#### Attributions

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## 1.5. Concept: Types of Data

### What are the types of data?

The data and information on your site is divided up into four types, which are edited, translated, and stored differently. These four types are:

#### Content

Information (text, images, etc.) meant to be displayed to site visitors. This type of information tends to be relatively permanent, but can normally be edited.

#### Configuration

Information about your site that is not content, but is also relatively permanent, and is used to define how your site behaves or is displayed. It is sometimes also displayed to site visitors, but tends to be smaller pieces of text (like field labels, the name of your site, etc.) rather than larger chunks that you'd normally think of as Content.

#### State

Information of a temporary nature about the current state of your site, such as the time when cron jobs were last run.

#### Session

Information about individual site visitors' interactions with the site, such as whether they are logged in and their cookies. This is technically a subtype of State information, since it is also temporary.

### Related topics

- [Section 2.3, "Concept: Content Entities and Fields"](#)
- [Section 13.1, "Concept: Cron"](#)
- [Section 7.1, "Concept: Users, Roles, and Permissions"](#)
- [Section 2.7, "Concept: User Interface, Configuration, and Content translation"](#)

### Attributions

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## 1.6. Concept: The Drupal Project

### Prerequisite knowledge

[Section 1.1, "Concept: Drupal as a Content Management System"](#)

## What is Free and Open Source Software?

Free and Open Source Software (FOSS) is software that is developed by a community of people, released under a non-commercial license, and whose *source code* (the program files that make up the software) is freely available. For more information on the non-commercial license used by Drupal, see [Section 1.7, "Concept: Drupal Licensing"](#).

## What is the Drupal project?

The Drupal project is a FOSS project whose purpose is to develop the core content management system software, as well as add-on modules, additional themes, translations, documentation, and special-purpose distributions. The people who contribute their time and money to the Drupal project come from all over the world, and are a diverse community that comes together for this common purpose.

The community encompasses many smaller groups who perform many different tasks such as developing a particular piece of Drupal-related software, writing documentation, maintaining the security of Drupal software, translating Drupal software into a particular language, using Drupal for some specific purpose, and coming together to meet in person within a particular geographical area.

For more on how you can connect to and communicate with the world-wide community, see [Section 14.1, "Connecting with the Community"](#) and [Section 14.2, "Getting Support"](#).

## What is the Drupal Association?

The [Drupal Association](#) is a non-profit organization dedicated to supporting the Drupal project and community. Its main functions are:

- Putting on large conventions around the world
- Maintaining the *Drupal.org* websites and the servers that they run on
- Promoting Drupal as a web platform
- Supporting Drupal education and training
- Providing grants to the Drupal community in support of its mission
- Raising funds for these purposes

## Related topics

- [Section 1.7, "Concept: Drupal Licensing"](#)
- [Section 13.3, "Concept: Security and Regular Updates"](#)
- [Section 14.1, "Connecting with the Community"](#)
- [Section 14.2, "Getting Support"](#)

## Additional resources

- [Drupal project governance](#)

- [\*Drupal Code of Conduct\*](#)

## Attributions

Written by [\*Jennifer Hodgdon\*](#).

# 1.7. Concept: Drupal Licensing

## Prerequisite knowledge

[\*Section 1.1, "Concept: Drupal as a Content Management System"\*](#)

## What is Drupal Licensing?

Drupal and all contributed files hosted on *Drupal.org* are licensed under the GNU General Public License (GPL), version 2 or later. That means you are free to download, reuse, modify, and distribute any files that are part of a project on *Drupal.org* under the terms of GPL version 2 or 3. You can also run the core software in combination with any code with any license that is compatible with version 2 or 3.

Drupal contributors should follow these guidelines:

- All files (PHP, JavaScript, images, Flash, etc.) that are part of a project on *Drupal.org* have to be under GPL version 2 or later.
- All Drupal contributors retain copyright on their code, but agree to release it under the same license as Drupal.
- Drupal modules and themes are a derivative work of Drupal. If you distribute them, you must do so under the terms of GPL version 2 or later.
- All content on *Drupal.org* itself is copyrighted by its original contributors, and is licensed under the Creative Commons Attribution-ShareAlike license 2.0.
- Sample code on *Drupal.org* is also available under GPL version 2 or later.

## Related topics

[\*Section 14.1, "Connecting with the Community"\*](#)

## Additional resources

- [\*Drupal.org page on "Licensing"\*](#)
- [\*"Drupal 8 LICENSE.txt" page on api.drupal.org\*](#)
- [\*GNU General Public License, version 2\*](#)
- [\*GNU General Public License, version 3\*](#)

- [\*Creative Commons Attribution-ShareAlike license 2.0.\*](#)
- [\*"Legal Group" on groups.drupal.org\*](#)

## **Attributions**

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# Chapter 2. Planning Your Site

## 2.1. Concept: Regions in a Theme

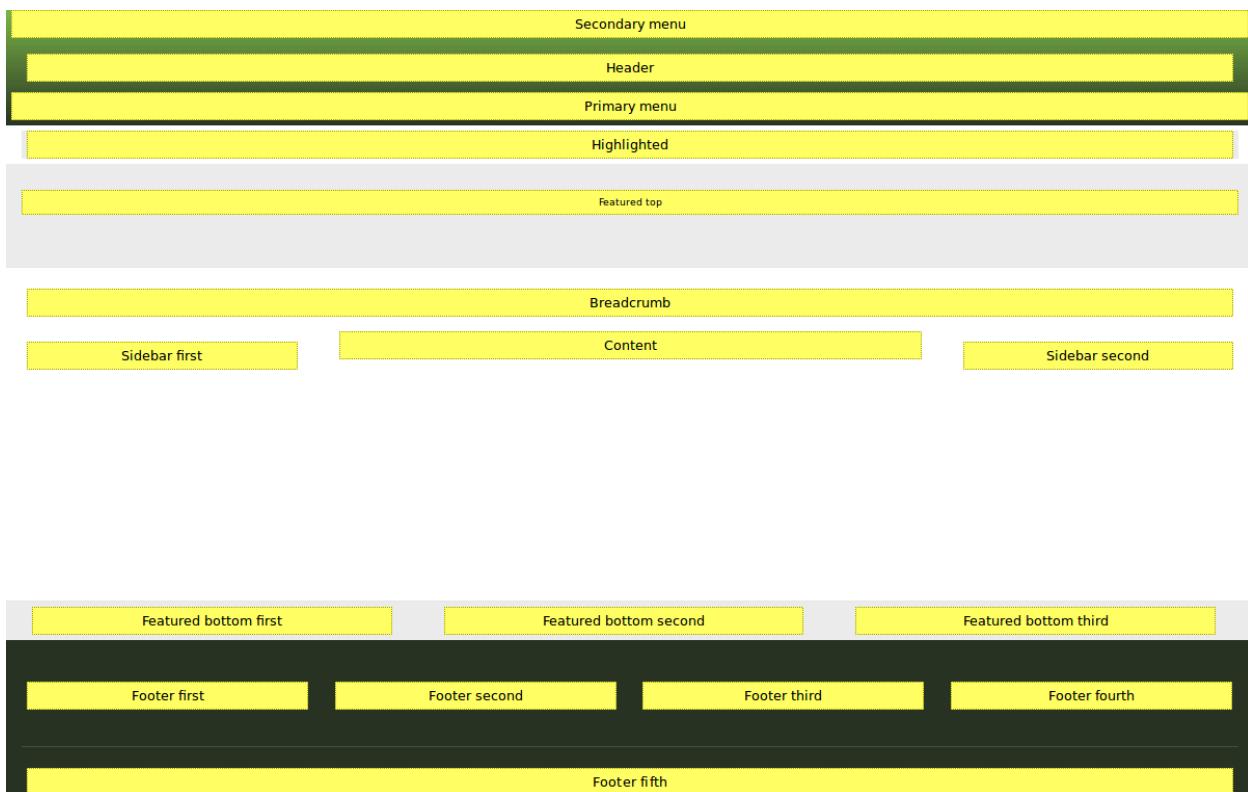
### Prerequisite knowledge

[Section 1.3, “Concept: Themes”](#)

### What is a region?

Besides its primary content, a web page contains other content such as site branding (site name, slogan, and logo), navigation aids (menus, links, and icons), formatted text, and images. Each theme provides a set of named regions, such as *Header*, *Content*, and *Sidebar*, where site builders may choose to place their content.

The available regions depend on the theme design. Only the Content region, which contains the primary content, is required; others are optional. The core Bartik theme provides the regions highlighted in the following image.



## Related topics

- [Section 8.1, "Concept: Blocks"](#)
- [Section 2.3, "Concept: Content Entities and Fields"](#)
- [Section 8.3, "Placing a Block in a Region"](#)

## Additional resources

- [Drupal.org community documentation page "Assigning content to regions"](#)

### Attributions

Written and edited by [John MacDonald](#), and [Michael Lenahan](#) at [erdfisch](#).

## 2.2. Planning Your Site Layout

### Goal

Plan the navigation and layout of the site, for both mobile and desktop browsers.

### Prerequisite knowledge

- [Section 1.3, "Concept: Themes"](#)
- [Section 2.1, "Concept: Regions in a Theme"](#)
- [Section i.6, "Guiding Scenario"](#)

### Steps

It is a good idea to plan the site layout before you start building the site and writing content; however, your plan may need to be revised either before you start implementing it or after you have some of the site built with draft content in place, based on budgetary concerns or stakeholder feedback.

1. Make a list of the information that your site should present to visitors. In the farmers market scenario, this might include:
  - Location of the market, with directions and a map
  - Hours and days the market is open
  - History of the market
  - List of vendors
  - Details about each vendor
  - Searchable list of recipes
  - Details about each recipe

- List of the most recently added recipes
2. Decide which information should be on which pages or types of pages on the site:

Information that should be on all pages

Address, hours, and recently-added recipes list

Vendor details pages

Information about each vendor on its own page

Recipe details pages

Details of each recipe on its own page

Home page

Location, map, directions, and hours

About page

History of the market

Vendors list page

List of vendors, with links to vendor detail pages

Recipe list page

Searchable list of recipes, with links to recipe detail pages

3. Decide which information is the most important on each page. Site visitors using mobile phones or other small browsers will often only see the content that is presented first, and they may not scroll down to see all of the information.

4. Decide which of these pages should appear in the main site navigation. For instance, the main navigation might consist of the Home, About, Vendors, and Recipes pages.

5. Make a rough design sketch for each page, showing how it would look when viewed on a small screen such as a phone, as well as on a larger screen such as a desktop browser. Considering that most site visitors will be using smaller browsers, it is a good idea to start with the phone-size layout, to make sure that these visitors will be able to find the information they need without too much scrolling.

In making these page layout plans, you might find that you need to revise your plan for which information should be on which pages. For example, you might decide that the address, hours, and recently-added recipes list would all fit well in the right sidebar area of all pages, when the site is viewed on desktop-sized browsers. On the other hand, you might decide that for mobile browsers, you would instead put the address and hours in a short format at the top of each page, but only display the recent recipe list at the bottom of the home page.

## Expand your understanding

[Section 2.5, "Planning your Content Structure"](#)

## Videos

Planning Your Site Layout

[Planning Your Site Layout](#)

### Attributions

Written by [Jennifer Hodgdon](#).

## 2.3. Concept: Content Entities and Fields

### Prerequisite knowledge

- [Section 1.5, "Concept: Types of Data"](#)
- [Section 1.2, "Concept: Modules"](#)

### What is a content entity?

A *content entity* (or more commonly, *entity*) is an item of content data, which can consist of text, HTML markup, images, attached files, and other data that is intended to be displayed to site visitors. Content entities can be defined by the core software or by modules.

Content entities are grouped into *entity types*, which have different purposes and are displayed in very different ways on the site. Most entity types are also divided into *entity sub-types*, which are divisions within an entity type to allow for smaller variations in how the entities are used and displayed. Here is a table of some common content entity types:

Entity type	Entity sub-type	Defining Module	Main uses
Content item	Content type	Node module	Content intended to be the main page area for pages on the site
<b>Example:</b> In the farmers market site example, you might have content types for basic pages, vendor pages, and recipe pages.			
Comment	Comment type	Comment module	Commentary added to content entities (typically to Content item entities)
<b>Example:</b> On a blog site, blog posts might have comments. They are not needed in the farmers market site example.			
User profile	(none)	User module	Data related to a person with a user

Entity type	Entity sub-type	Defining Module	Main uses
			account (login access) on the site
	<b>Example:</b> Every site has at least basic user profiles with user names and email addresses; social networking sites may have more complex user profiles with more information.		
Custom block	Block type	Custom Block module	Text and images in smaller chunks, often displayed in the site header, footer, or sidebar
	<b>Example:</b> In the farmers market site example, you might put the hours and location in a sidebar block.		
Taxonomy term	Vocabulary	Taxonomy module	Used to classify other types of content
	<b>Example:</b> In the farmers market site example, you might classify Recipe content with an Ingredients taxonomy vocabulary, with taxonomy terms like Carrots and Tomatoes. In a blogging site, blog posts might be classified using a Tags vocabulary, and perhaps also a Categories vocabulary.		
File	(none)	File module	An image or attachment file that is tracked and managed by the site, often attached to other types of content
	<b>Example:</b> In the farmers market site example, both Recipe and Vendor pages might have image attachments, which would (behind the scenes) be managed as File entities by the site.		
Contact form	Form type	Contact module	A form that lets site visitors contact site owners
	<b>Example:</b> A contact form is needed in the farmers market site example.		

## What is a field?

Within entity items, the data is stored in individual *fields*, each of which holds one type of data, such as formatted or plain text, images or other files, or dates. Field types can be defined by the core software or by modules.

Fields can be added by an administrator on entity sub-types, so that all entity items of a given entity sub-type have the same collection of fields available. For example, the Vendor content type in the farmers market example might have fields for the vendor name, a logo

image, website URL, and description, whereas the *Basic page* content type might only have fields for the title and page body. When you create or edit entity items, you are specifying the values for the fields on the entity item.

## Related topics

- [Section 2.5, "Planning your Content Structure"](#)
- [Section 5.2, "Creating a Content Item"](#)
- [Section 6.1, "Adding a Content Type"](#)
- [Section 6.5, "Concept: Taxonomy"](#)
- [Section 7.1, "Concept: Users, Roles, and Permissions"](#)
- [Section 8.1, "Concept: Blocks"](#)

## Attributions

Written and edited by [Jennifer Hodgdon](#) and [Grant Dunham](#).

## 2.4. Concept: Modular Content

### Prerequisite knowledge

- [Section 2.3, "Concept: Content Entities and Fields"](#)
- [Section 2.2, "Planning Your Site Layout"](#)

### What is modular content?

Given that the content of your site is stored in a database, it is desirable to make the content *modular*, meaning that certain pages on your site, rather than being edited as a whole page, are instead generated automatically from other content items. For instance, in the farmers market site scenario, you might create individual content items for recipes. If the recipe content items have a field that keeps track of ingredients, then your site could include a composite page that would list recipes, and allow visitors to search for a recipe that contained some particular ingredient they had bought at the market.

Smaller sections of pages can also be generated as composites. For instance, recipe content items could have a field that keeps track of which vendor submitted the recipe (see [Section 6.4, "Concept: Reference Fields"](#)), with the vendor details edited in separate vendor content items. This would allow you to do the following on your site:

- On each Recipe page, there could be an area that displays some information about the vendor that submitted the recipe, such as their name and market stall number.
- Each vendor page could have a section that lists the recipes they have submitted.

The key idea is that each piece of information is only edited in one place. When vendor information is updated, all recipe pages that display that vendor information are automatically updated; when a recipe is submitted by a vendor, it is automatically displayed on the vendor page. The core Views module is the usual way to use modular content to create composite pages and page sections; see [Section 9.1, "Concept: Uses of Views"](#) for more information. Also, *view modes* are useful for defining different ways to display each content item; see [Section 6.10, "Concept: View Modes and Formatters"](#) for more information.

## Related topics

- [Section 2.5, "Planning your Content Structure"](#)
- [Section 6.1, "Adding a Content Type"](#)
- [Section 6.3, "Adding Basic Fields to a Content Type"](#)
- [Section 6.4, "Concept: Reference Fields"](#)
- [Section 6.10, "Concept: View Modes and Formatters"](#)
- [Section 9.1, "Concept: Uses of Views"](#)

## Attributions

Written by [Jennifer Hodgdon](#).

# 2.5. Planning your Content Structure

## Goal

Make a plan for the content structure of the site (which type and subtype of entity to use for which content), and which pages will contain listings of content.

## Prerequisite knowledge

- [Section 2.3, "Concept: Content Entities and Fields"](#)
- [Section 2.4, "Concept: Modular Content"](#)
- [Section i.6, "Guiding Scenario"](#)

## Steps

1. Brainstorm about what content your site needs to contain, which could include content that visitors would be looking for, as well as content that you want to show to visitors. The result could be the description in [Section i.6, "Guiding Scenario"](#).
2. For each identified piece of content, decide which content entity type would be the best fit. In doing this, you'll need to consider where and how the content will be used and

edited on the site. For example, in the farmers market site scenario, you might want to display the hours and location of the farmers market on the sidebar of every page. For that content, a single custom block makes sense. As another example, you might decide that pages displaying information about each vendor should be content items managed by the core Node module, because you want vendors to be able to edit their own listings. The core Node module permission system lets you do this easily.

These decisions do not necessarily always have only one right answer; for instance, you could decide that vendor pages should be user profiles instead of content items, but if you did that the content would be tied to a specific user account, and it would not be as easy to later change the ownership of a vendor page to a different user account.

3. Within each content entity type you identified, decide what division into entity sub-types would make sense. For example, in the farmers market site example, you would probably decide that under the Content item entity type, there should be one content type for basic pages (Home and About), one for vendor pages, and one for recipe pages.
4. For each entity sub-type you decided on, decide what fields are needed. For instance, the Vendor content type might need fields for the vendor name, web page URL, image, and description.
5. Decide on what entity listings are needed, which could be entire pages or smaller areas on the page. For each listing, you'll need to determine what entity items should be listed. Then you'll need to decide in what order and with what filtering options they should be displayed; for example, you might want to give the site visitor the option to search by keyword, to filter the list down to a subset, or to sort the list. You'll also need to decide what information from the entity items should be shown, which might result in adding to the list of fields you determined in the previous step. The farmers market site, for example, needs to have a Recipes listing page that lists content items of type Recipe, with the ability to filter by ingredients, so that means that the Recipe content type needs an Ingredients field.
6. For each identified field on each entity subtype, identify what type of data it should contain (such as plain text, formatted text, a date, an image file, etc.), and how many values should be allowed. Most fields are single-valued, but for example, a Recipe should allow for multiple values in its Ingredients field.
7. Consider which fields would be best as references to taxonomy term entities: fields whose values should be chosen from a list of allowed values. Allowed values that are expected to change and grow over time, are good candidates. An example is the Ingredients field for the Recipe content type.
8. Consider which fields should reference other content entities. An example is that since vendors will be submitting recipes, a field will be needed on the Recipe content type that references the Vendor content item for the vendor who submitted the recipe.

Here's an example of the resulting content structure for the farmers market scenario example site:

Entity type	Entity sub-type	Examples	Fields
Content item	Basic page	Home page, about page	Title, page body

Entity type	Entity sub-type	Examples	Fields
Content item	Vendor	A page for each vendor at the market	Vendor name, page body, image, URL
Content item	Recipe	A page for each submitted recipe	Recipe name, page body, image, reference to Vendor who submitted it, Ingredients taxonomy
Custom block	(generic)	Copyright notice for footer, Hours and location for sidebar	No special fields
Taxonomy term	Ingredients	Carrots, tomatoes, and other recipe ingredients	No special fields
Contact form	(generic)	Generic contact form	Name, email, subject, message
User profile	(none)	Will not be displayed on site	No special fields

And here are the listings the site needs:

Page or page area	Entity type and sub-type	Filter/sort/pagination	Fields displayed
Vendors page	Vendor content items	All vendors, alphabetical, paged	Image, vendor name, trimmed body
Recipes page	Recipe content items	Filter by ingredients, alphabetical, paged	Image, recipe name

## Expand your understanding

- [Section 6.1, "Adding a Content Type"](#)
- [Section 6.3, "Adding Basic Fields to a Content Type"](#)
- [Section 6.6, "Setting Up a Taxonomy"](#)

## Related concepts

[Section 6.5, "Concept: Taxonomy"](#)

## Videos

Planning Your Content Structure

### [\*Planning Your Content Structure\*](#)

#### **Attributions**

Written and edited by [\*Jennifer Hodgdon\*](#) and [\*Grant Dunham\*](#).

## **2.6. Concept: Editorial Workflow**

### **Prerequisite knowledge**

- [\*Section 1.1, "Concept: Drupal as a Content Management System"\*](#)
- [\*Section 2.3, "Concept: Content Entities and Fields"\*](#)

### **What is an editorial workflow?**

An *editorial workflow* is the process organizations follow to create, review, edit, and publish content. Multiple people in different roles in the organization can be part of the process. For example, content creators could collect information and write content; editors could review, edit, ask for changes, and publish the content once it's ready to be shared with the audience. Later on, content revisions could go through a simple process for small changes, or a more complex process with reviews for larger changes.

### **What tools are available for managing workflows?**

#### Published/Unpublished status

The Content item entity type supports marking each content item as either Published or Unpublished. Viewing permissions are separate for published and unpublished content; for example, all site visitors might be able to see published content items, while only content creators and editors can see unpublished content items.

#### Revision tracking

Some content entity types support revision tracking, meaning that as content is revised, the software stores the older revisions, so that they can be compared or reverted.

#### Workflows

The core Workflows module lets you define workflow states and transitions, beyond just having content be published or unpublished. The companion core Content Moderation module lets you assign permissions and roles to the workflow transitions. Both can be used with both Content item and Custom block entity types.

#### Block placement

The Custom block content entity lets you create a custom block and edit it, but only make it visible on the site once it is ready.

## Related topics

- [Section 5.2, "Creating a Content Item"](#)
- [Section 5.3, "Editing a Content Item"](#)
- [Section 8.2, "Creating A Custom Block"](#)
- [Section 8.3, "Placing a Block in a Region"](#)

### Attributions

Written and edited by [Diána Lakatos](#) at [Pronovix](#), [Grant Dunham](#), and [Jennifer Hodgdon](#).

## 2.7. Concept: User Interface, Configuration, and Content translation

### Prerequisite knowledge

- [Section 1.5, "Concept: Types of Data"](#)
- [Section 1.2, "Concept: Modules"](#)
- [Section 2.3, "Concept: Content Entities and Fields"](#)

### What languages does the software support?

The base language for the software that your site runs (core software, modules, and themes) is English. However, using this software you can create a site whose default language is not English, in which case anyone viewing the site should see only that language (assuming that the site is fully translated). You can also use this software to create a multi-lingual site, with a language switcher that site visitors can use to switch to their preferred language. You need to have the core Language module installed in order to use a language other than English on the site.

### What can be translated on your site?

There are three types of information that you can translate, each with its own method for translating:

#### User interface text

Built-in text present in the core software, modules, and themes. This can be translated from the base English language of the software into the language(s) of your site. Typically, rather than needing to translate this text yourself, you can download translations. You need to have the core Interface Translation module installed in order

to translate this text, and the core Update Manager module installed in order to automatically download translations.

#### Configuration text

Text whose structure and initial values are defined by the core software, modules, and themes, but that you can edit. Examples include the labels for fields in your content types, header text in views, your site name, and the content of automatic email messages that your site sends out. After creating configuration text in the default language of your site, you can translate it into other languages. For default configuration supplied by the core software, modules, and themes, translation is included with the downloads of user interface text translations. You need to have the core Configuration Translation module installed in order to translate this text.

#### Content text and files

If your site is multilingual, you can configure the content fields on your site to be translatable. After creating content in one language, you can translate it into other languages. Fields can contain textual information or uploaded files, and for each field on each content type, you can configure it to be translatable or non-translatable. You need to have the core Content Translation module installed in order to translate this text.

## What information will remain in English on my site?

Even if the default language of your site is not English, you will still see English text on certain administrative pages used to manage configuration. The reason is that when you edit configuration, you are editing the base, untranslated configuration values; translating configuration is a separate operation. For example, if you visit the *Menus* administration page, you will see menu names in English (for the menus that were set up when you installed your site), and if you click an *Edit menu* link, you will be editing the English name and description of the menu. To edit the menu name in a different language, you would need to have the core Configuration Translation module installed, and use the *Translate* link to edit the translated menu information.

## Related topics

- [Section 10.1, "Adding a Language"](#)
- [Section 10.2, "Configuring Content Translation"](#)
- [Section 10.3, "Translating Content"](#)
- [Section 10.4, "Translating Configuration"](#)

## Attributions

Written by [Jennifer Hodgdon](#).

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# Chapter 3. Installation

## 3.1. Concept: Server Requirements

### What are the requirements for running the core software?

#### Disk space

The total amount of disk space needed for your site is not a fixed amount, as it depends on your site. The base files for the core software take up about 100 MB on the web server. You will need more space if you install additional modules or themes, and you'll also need space for media, backups, and other files generated by and uploaded to your site. The database also uses disk space, although that is typically not in the same area (and in some cases, not even on the same server) as that used by the site files.

#### Web server

##### Apache (Recommended)

Apache is the most commonly used web server. The core software will work on Apache 2.x hosted on UNIX/Linux, OS X, or Windows that have the Apache mod\_rewrite module installed and enabled. The Apache VirtualHost configuration must contain the directive *AllowOverride All* to allow the *.htaccess* file to be used.

##### Nginx

Nginx is a commonly used web server that focuses on high concurrency, performance and low memory usage. The core software will work on Nginx 1.1 or greater hosted on UNIX/Linux, OS X, or Windows. The *ngx\_http\_rewrite\_module* must be installed and enabled.

##### Hiawatha

Hiawatha is a web server with a strong focus on security. It also aims at being easy to use and lightweight. Research performed by independent researchers proves that Hiawatha offers a performance comparable to other web servers under normal conditions, but much better while under attack. URL Toolkit must be installed and configured to rewrite URLs.

##### Microsoft IIS

Microsoft IIS is a web server and set of feature extension modules for use with Microsoft Windows. The core software will work with IIS 5, IIS 6, or IIS 7 if PHP is configured correctly. Because clean URLs are required, you may need to use a third party product. For IIS 7, you can use the Microsoft URL Rewrite module or a third party solution.

## Database

Use one of the following databases:

- MySQL - 5.5.3 (MariaDB 5.5.20, Percona 5.5.8) or higher with an InnoDB-compatible primary storage engine
- PostgreSQL - 9.1.2 or higher
- SQLite - 3.4.2 or higher

## PHP

PHP 5.5.9 or higher.

## Additional resources

[Drupal.org community documentation page "System requirements"](https://www.drupal.org/community-documentation/page/system-requirements)

### Attributions

Adapted by [Karl Kedrovsky](#), [Brian Emery](#), and [Jennifer Hodgdon](#) from "[System requirements](#)", copyright 2000-2017 by the individual contributors to the [Drupal Community Documentation](#).

## 3.2. Concept: Additional Tools

### What tools are available for site builders?

There are several additional tools available that help you create sites faster, more accurately and with less effort.

#### Drush

See below for more about Drush.

#### Git

[Git](#) is a version control system you can use to track changes made to files within your entire site, or files relating only to the module or theme that you are using. Git makes it possible to try out changes, and if necessary, revert to a previous version. It can be used as well to track changes in the configuration files and synchronize the configuration of different sites. Git has become the standard for web development projects.

#### Composer

See below for more about Composer.

#### Devel

The [contributed Devel module](#) helps with development tasks such as debugging and inspecting code, analyzing database queries, and generating dummy content.

## What is special about Drush?

[Drush](#) is a command-line tool for building and maintaining sites, providing an alternative to using the administrative interface for many operations. Many site builders and maintainers prefer to use Drush whenever possible, and consider the time spent installing and learning to use Drush to be a good investment. Reasons to consider using Drush:

- Drush provides a large number of commands for tasks such as installing the base software, modules, and themes; updating software; performing database operations, including copying and querying; resetting passwords; and clearing the cache. Some contributed modules and themes also define Drush commands.
- Doing administrative tasks using Drush is typically faster and less tedious than performing the same tasks through the administrative interface.
- Since Drush is a command-line interface, you can write scripts that combine Drush commands and other commands on the server, to automate more complicated tasks.
- Drush provides additional functionality not available via the administrative interface; for example, running database queries.

If you want to use Drush, you will need to have command-line terminal access to the server where your website will be hosted, and you will need to have a compatible version of the Drush tool installed on that server. Check the [Drush website](#) for installation instructions and version compatibility. There is also documentation on the available Drush commands on that site.

## What is Composer used for?

[Composer](#) is a tool for managing PHP dependencies, where the developer specifies what version of each external library is needed, and Composer manages the process of downloading and installing the libraries.

The core software is a primary user of Composer, because it makes use of several externally-developed software libraries, which must be downloaded and installed in order for the core software to work. When you install the core software, you either need to download an archive that contains compatible versions of the external libraries, or you need to run Composer to download the external libraries after the initial download.

Some contributed modules also make use of externally-developed software libraries; for example, a Facebook integration module might require Facebook's integration library to be installed for the module to work, and a geographical module might make use of a standard library of geographical functions. To install a module with external dependencies, you will need to run Composer.

## What tools are available for module and theme developers?

In addition to the site builder tools mentioned above, the following tools are useful for module and theme developers.

### Drupal Console

[Drupal Console](#) is a command-line tool that generates boilerplate code and interacts with a Drupal site. It can generate, for example, block or form code, install modules and themes, and create dummy content. Drupal Console makes use of the Symfony Console.

### Coder

[Coder](#) is a command-line tool that checks if your modules and themes comply with coding standards and other best practices. It can also fix coding standard violations.

### Browser debugging tools

Web browsers such as Firefox and Chrome include tools that allow viewing, editing, debugging, and monitoring CSS, HTML, and JavaScript. You can open the debugging pane or window by right-clicking the mouse in an area of your window, and choosing "Inspect" or "Inspect element".

## Related topics

[Section 11.9, "Using Composer and Git to Download Files"](#)

## Additional resources

- [Drupal.org community documentation page "Development tools"](#)
- [Drupal.org community documentation page "Using Composer with Drupal"](#)

## Attributions

Written and edited by [Boris Doesborg](#) and [Jennifer Hodgdon](#).

## 3.3. Preparing to Install

### Goal

Choose an appropriate way to install the core software, and handle any required prerequisites.

## Prerequisite knowledge

- [Section 3.1, "Concept: Server Requirements"](#)
- [Section 3.2, "Concept: Additional Tools"](#)

## Site prerequisites

If you want to use Drush to install the core software, Drush must be installed. See [Section 3.2, "Concept: Additional Tools"](#).

## Steps

1. Choose a method for installing the core software.

Try a free online demo

Use an online provider to get a demo installation of the core software in 20 minutes or less. See the [Drupal.org page "Try Drupal"](#).

Use a one-click installer from your hosting provider

If you choose to install the core software at your hosting provider, your hosting provider may have specific documentation and/or a one-click install that you can use. See [Drupal.org's list of hosting providers that support Drupal](#).

Use Drush

You will need to have Drush installed and command-line access to the site. See [Section 3.2, "Concept: Additional Tools"](#).

Use the web installer

You will need space on a local or hosted web server to install the core software manually.

Use a pre-configured environment

Use a pre-configured environment or virtual machine that contains Drupal and all the required supporting software to install Drupal locally. See the section for your operating system under [Drupal.org's Local server setup guide](#) for possible options.

2. If you are installing using Drush or the web installer, set up a URL and hosting for your site, either at an external hosting provider or on your own computer. Verify that the hosting is working by putting a simple HTML file in the web root directory of the hosting, and visiting the URL for your site.
3. If you are installing using Drush or the web installer, create a database, along with a database user account with full access.
4. If you are installing using Drush, type the following at the Drush command line, where *example* is the name of the directory that the core software will be downloaded to, and *DB\_NAME*, *DB\_USER* and *DB\_PASS* are your database's credentials:

```
drush dl drupal --drupal-project-rename=example  
cd example  
drush site-install standard --db-url='mysql://DB_USER:DB_PASS@localhost/DB_NAME'
```

5. If you are installing using the web installer, upload the core software files manually. To do this using Git and/or Composer, see [Section 11.9, "Using Composer and Git to Download Files"](#); to do this by downloading a zipped archive:

- a. Go to <https://www.drupal.org> and click *Download & Extend* on the top-level menu.

## Download & Extend

### Download

[Download Drupal 8.1.10](#)

[Try a hosted Drupal demo](#)

See [Drupal's project page](#) for more information, older versions, and project development. Explore hosting options for your site. Browse [documentation](#) for more help and information.

- b. Click the *Download Drupal* button (of the appropriate version) to be taken to the release page for the version you are downloading.

[Releases](#)

### drupal 8.4.0

[Download  
drupal-8.4.0.tar.gz  
tar.gz](#)

12.76 MB

[Download  
drupal-8.4.0.zip  
zip](#)

21.14 MB

- c. Download the tar.gz or zip file to your local machine.
- d. Upload the downloaded file to your hosting account. Log in to the control panel and navigate to the *HTML* directory. Save the file there.
- e. Uncompress the tar.gz or zip file, which will create a new directory. If you do not have terminal access, or your hosting server is not running Linux, your hosting control panel's file manager should provide a way to extract the files. If you have terminal access to your hosting server (running Linux), you can use a command like:

```
tar -xzf drupal-8.3.2.tar.gz
```

- f. Delete the compressed file from the server, unless your unpacking method already deleted it.
- g. Rename the directory or reconfigure your web hosting, so that the directory name matches the directory your web hosting is configured to use for your site.

## Expand your understanding

Run the installer if you chose web installer to install the core software. See [Section 3.4, "Running the Installer"](#).

## Videos

Preparing to Install

[\*Preparing to Install\*](#)

## Additional resources

[\*Drush\*](#)

## Attributions

Written and edited by [\*Drew Gorton\*](#), [\*Michael Lenahan\*](#) at [\*erdfisch\*](#), [\*Jennifer Hodgdon\*](#), and [\*Jojo Alphonso\*](#) at [\*Red Crackle\*](#).

## 3.4. Running the Installer

### Goal

Install the core software and create the admin account by running the included installer.

### Prerequisite knowledge

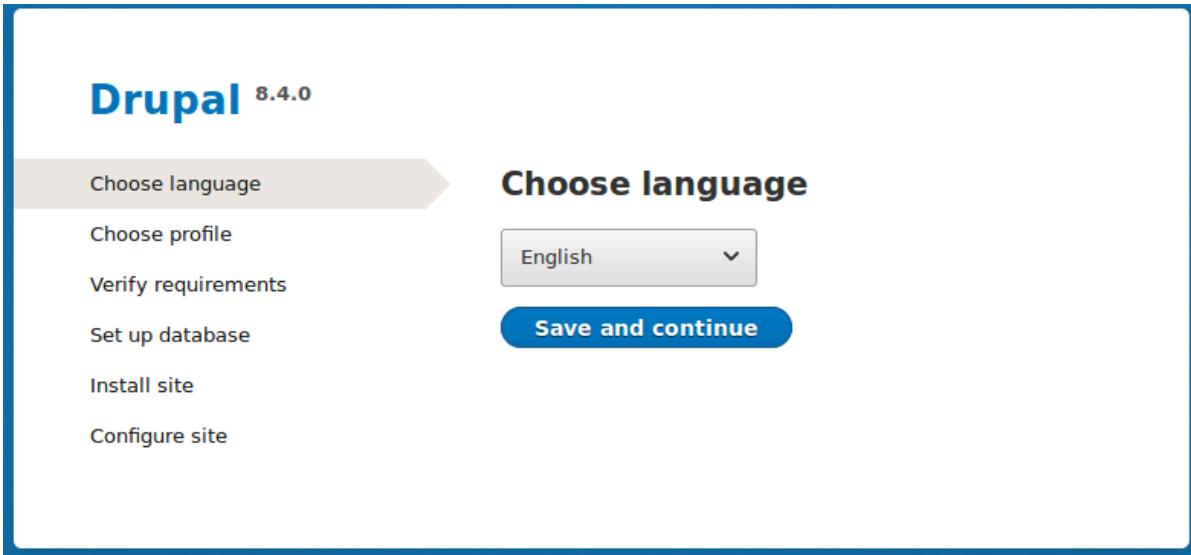
[\*Section 3.1, "Concept: Server Requirements"\*](#)

### Site prerequisites

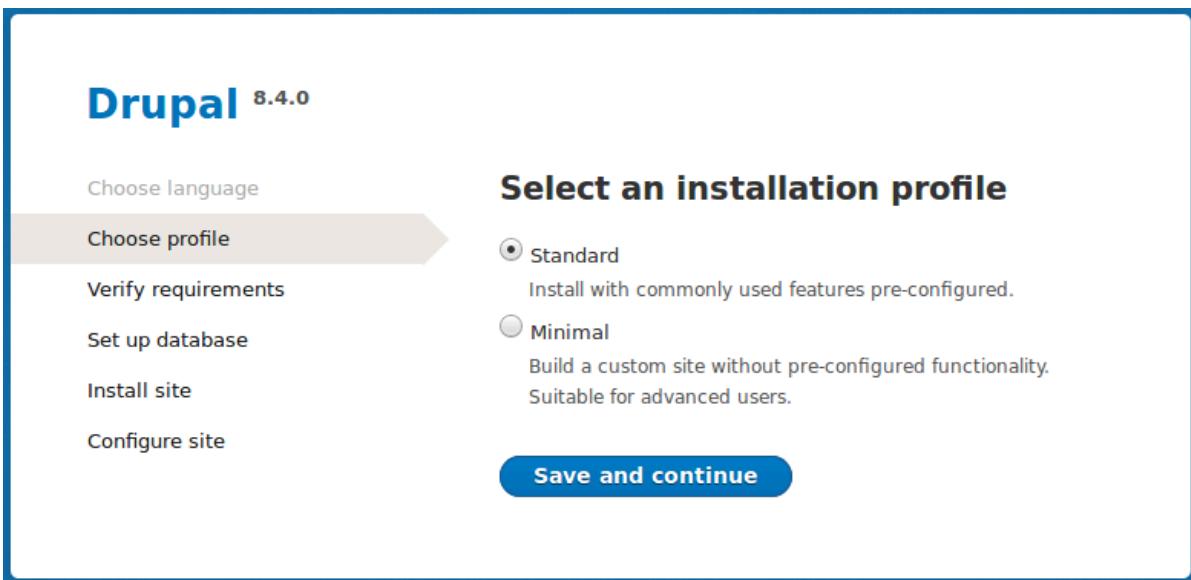
[\*Section 3.3, "Preparing to Install"\*](#)

### Steps

1. If you are using a 1-click install from a hosting provider or demo site, you will most likely see some or all of the following screens as part of the installation process. If you uploaded the core files manually, to start the installer, open a browser and visit the URL that you set up for your hosting.
2. Select a language on the first page of the installer; for example, English. You could optionally choose from any of the other listed languages. The language files for the chosen language will be downloaded and installed so that the rest of the installation process can be finished in the chosen language. After choosing a language, click *Save and continue*.



3. Select an installation profile. Installation profiles provide site features and functions for a specific type of site as a single download containing the core software, contributed modules, themes, and pre-defined configuration. Core contains two installation profiles. Select the core Standard installation profile. Click *Save and continue*.



4. The next step in the installer will verify that your system meets the minimum requirements. If it does not, you'll be presented with an outline of what needs to be corrected in order to proceed. If it does, the installer will automatically advance to the next step.
5. Provide details of the database you created in the [Section 3.3, "Preparing to Install"](#) chapter. Then click *Save and continue*.

Field name	Explanation	Value
Database name	The custom name given to the database	drupal8
Database username	Username created	databaseUsername
Database password	Password chosen	

Choose language

Choose profile

Verify requirements

**Set up database**

Install site

Configure site

**Database configuration**

**Database type \***

MySQL, MariaDB, Percona Server, or equivalent

**Database name \***

dbName

**Database username \***

dbUserName

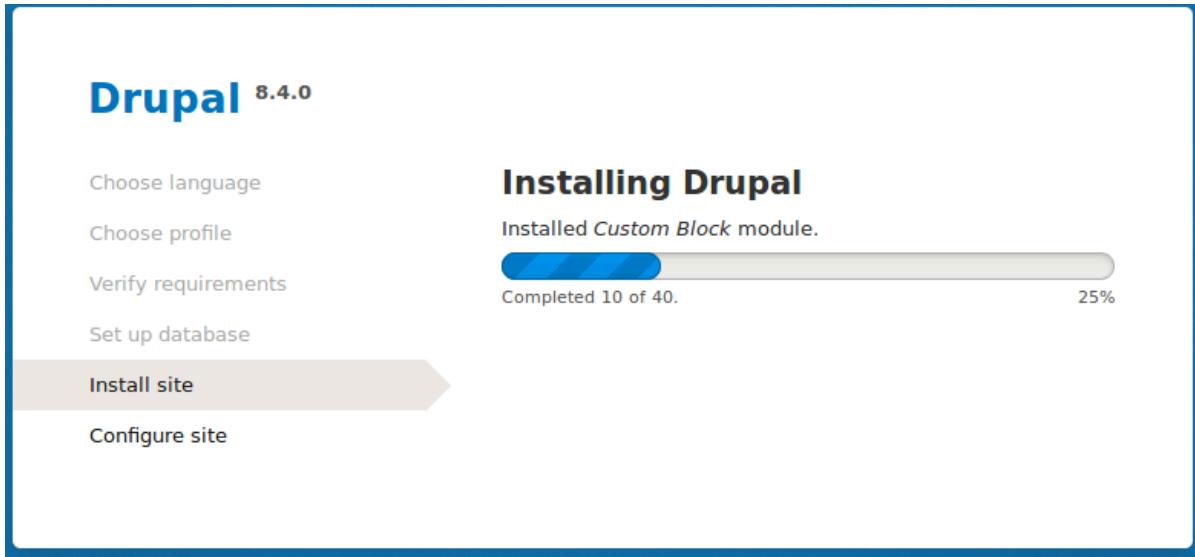
**Database password**

••••••••••••••

**ADVANCED OPTIONS**

**Save and continue**

6. The next step will display a progress bar under the heading *Installing Drupal*. After the installer has completed, it will automatically advance to the next step.



7. The final step is to configure some basic information about your new site. Note that the user account you create in this step is the site's admin account. See [Section 7.2, "Concept: The User 1 Account"](#) for important information about this unique account. You can safely name this account "admin", and make sure to choose a secure and unique password.

Fill in the form with the following information:

Field name	Explanation	Value
Site name	The name chosen for the site	Anytown Farmers Market
Site email address	The email associated with the site	<a href="mailto:info@example.com">info@example.com</a>
Username	The designated user's credentials	admin
Password	The password chosen	
Confirm password	Repeat the password	
Email address	The user's email	<a href="mailto:admin@example.com">admin@example.com</a>

The remaining fields can likely be left at their default values.

**Drupal** 8.4.0[Choose language](#)[Choose profile](#)[Verify requirements](#)[Set up database](#)[Install site](#)[Configure site](#)**Configure site****SITE INFORMATION****Site name \***

Anytown Farmers Market

**Site email address \***

info@example.com

Automated emails, such as registration information, will be sent from this address. Use an address ending in your site's domain to help prevent these emails from being flagged as spam.

**SITE MAINTENANCE ACCOUNT****Username \***

admin

Several special characters are allowed, including space, period (.), hyphen (-), apostrophe ('), underscore (\_), and the @ sign.

**Password \***

\*\*\*\*\*

Password strength: Strong

**Confirm password \***

\*\*\*\*\*

Passwords match: yes

**Email address \***

admin@example.com

**REGIONAL SETTINGS****Default country**

United States

Select the default country for the site.

**Default time zone**

Los Angeles

By default, dates in this site will be displayed in the chosen time zone.

**UPDATE NOTIFICATIONS**

Check for updates automatically

Receive email notifications

The system will notify you when updates and important security releases are available for installed components. Anonymous information about your site is sent to [Drupal.org](#).

8. Click *Save and continue*.
9. You will be redirected to the front page of your new site and you should see the message *Congratulations, you installed Drupal!* displayed at the top of the page.



## Expand your understanding

Check the Status Report to see if there are any problems with the installation. See [Section 12.5, "Concept: Status Report"](#).

## Related concepts

- [Section 11.7, "Concept: Development Sites"](#)
- [Section 3.2, "Concept: Additional Tools"](#)

## Videos

Running the Installer

[Running the Installer](#)

## Additional resources

[Drupal.org community documentation page "Create A Database"](#)

## Attributions

Written and edited by [Joe Shindelar](#) at [Drupalize.Me](#), and [Jojo Alphonso](#) at [Red Crackle](#).

# Chapter 4. Basic Site Configuration

## 4.1. Concept: Administrative Overview

### Prerequisite knowledge

- [Section 1.3, "Concept: Themes"](#)
- [Section 1.2, "Concept: Modules"](#)

### What is the administrative menu?

The toolbar provided by the core Toolbar module displays the *Manage* administrative menu at the top or left side of the site, for users with permission to see it. This menu provides access to all of the administrative areas of the site. The menu entries will vary depending on which modules are active on your site and the permissions of the person viewing the menu; if you install using the core Standard installation profile and have full administrative permissions, the top-level entries are as follows:



#### Content

Lists and manages existing content, and allows creation of new content.

#### Structure

Contains a list of links for managing structural elements of the site, such as blocks, content types, menus, and taxonomy.

#### Appearance

Manages themes and appearance-related settings.

#### Extend

Manages the installation and uninstallation of modules.

#### Configuration

Contains links to settings pages for various site features.

#### People

Manages users, roles, and permissions.

### Reports

Contains links to logs, update information, search information, and other information about the site's status.

### Help

Lists help topics for installed modules that provide them.

The arrow button on the far right side of the second line of the toolbar (or far left side, if the site is being viewed using a right-to-left-reading language like Arabic) can be used to switch the menu from appearing horizontally at the top of the page, to a vertical format on the left side (or right side, in right-to-left languages). When viewed vertically, the menu becomes an interactive tree.

The screenshot shows the 'Basic Site Configuration' page. At the top is a dark header bar with the 'Manage' button on the left and a 'Shortcuts' button with a star icon on the right. Below this is a list of configuration links:

- Content** (with a dropdown arrow)
- Structure** (with a dropdown arrow)
- Appearance**
- Extend**
- Configuration** (with a dropdown arrow)
- People**
- Reports** (with an upward arrow)

Below the links are several informational sections:

- Available updates**
- Recent log messages**
- Available translation updates**
- Field list**
- Status report**

At the bottom of the page, there is a small note: **Top 'Access denied'**.

This guide has a standard way to describe navigation to administrative pages using the administrative toolbar. See [Section i.5, "Conventions of the Guide"](#) for more information.

## What are contextual links?

Some administrative and editing functionality on the site can be accessed through the *contextual links* displayed by the core Contextual Links module. Contextual links take you to

some of the same pages that you can access through the administrative menu, but instead of having to navigate through the menu hierarchy, these links are provided near where the related content is displayed on your site.

Contextual links have to be activated to be visible. If your site's theme uses the default styling for contextual links, a pencil icon is used to indicate that contextual links are present and activated, and if you click the icon, you will see the contextual links. There are two ways to activate the pencil icons that provide access to the contextual links:

- If you are using a mouse in a browser, the icon will temporarily appear when you hover over an area that has related contextual links.
- You can click the master pencil icon (or its *Edit* link) at the right end of the top bar in the toolbar, which will activate all of the contextual links on the current page. This icon is only visible on pages with contextual links.



### Attributions

Written by [Scott Wilkinson](#) and [Jennifer Hodgdon](#).

## 4.2. Editing Basic Site Information

### Goal

Change basic site information such as *Site name*, *Slogan*, *Default time zone*.

### Prerequisite knowledge

[Section 4.1, "Concept: Administrative Overview"](#)

## Steps

### Configuring the basic site information

1. In the *Manage* administrative menu, navigate to *Configuration > System > Basic site settings* (`admin/config/system/site-information`) to change the *Site name*, *Slogan*, administrative *Email address*, or the *Default front page* path.
2. Fill in the available fields as appropriate for your site.

Field name	Explanation	Example value
Site details > Site name	Used to identify the site and displayed in browsers	Anytown Farmers Market
Site details > Slogan	Usually displayed sitewide	Farm Fresh Food
Site details > Email address	Used as <i>From</i> address in automated email messages (registrations, password resets, etc)	<a href="mailto:info@example.com">info@example.com</a>

▼ SITE DETAILS

**Site name \***  
Anytown Farmers Market

**Slogan**  
Farm Fresh Food  
How this is used depends on your site's theme.

**Email address \***  
info@example.com  
The *From* address in automated emails sent during registration and new password requests, and other notifications. (Use an address ending in your site's domain to help prevent this email being flagged as spam.)

3. After editing the fields, click *Save configuration* to see the changes applied to the site.

### Configuring default Regional settings

1. In the *Manage* administrative menu, navigate to *Configuration > Regional and language > Regional settings* (`admin/config/regional/settings`).
2. Fill in the form as follows:

Field name	Explanation	Example value
Locale > Default country	The primary country for your site	United States
Locale > First day of week	The day when the week starts on calendars	Sunday
Time zones > Default time zone	The primary time zone for your site	America > Los Angeles

Field name	Explanation	Example value
Time zones > Users may set their own time zone	Whether logged-in users can choose a different time zone for display of dates and times on the site	Unchecked

**▼ LOCALE**

**Default country**

**First day of week**

**▼ TIME ZONES**

**Default time zone**

Users may set their own time zone  
 Remind users at login if their time zone is not set  
Only applied if users may set their own time zone.

**Time zone for new users**  
 Default time zone  
 Empty time zone  
 Users may set their own time zone at registration  
Only applied if users may set their own time zone.

**Save configuration**

- After editing the fields, click *Save configuration* to see the changes applied to the site.

## Videos

Editing Basic Site Information

[Editing Basic Site Information](#)

## Additional resources

[Drupal.org community documentation page "Getting started with Drupal 8 administration"](#)

### Attributions

Written and edited by [Sree Veturi](#), [Michael Lenahan](#) at [erdfisch](#), [Antje Lorch](#), and [Jennifer Hodgdon](#).

## 4.3. Installing a Module

### Goal

Install a core module, or a contributed module whose files have already been uploaded to the site, through the administrative interface or using Drush.

### Prerequisite knowledge

[Section 1.2, "Concept: Modules"](#)

### Site prerequisites

If you want to use Drush to install modules, Drush must be installed. See [Section 3.2, "Concept: Additional Tools"](#).

### Steps

You can use the administrative interface or Drush to install modules.

#### Using the administrative interface

1. In the *Manage* administrative menu, navigate to *Extend (admin/modules)*. The *Extend* page appears showing all the available modules in your site.
2. Check the boxes for the module or modules you want to install. For example, check the box for the core Activity Tracker module.

The screenshot shows a list of core modules. The 'Activity Tracker' module is selected (checked). Other modules listed include Actions, Aggregator, Automated Cron, and Ban. Each module has a brief description to its right.

CORE	
<input type="checkbox"/> <b>Actions</b>	▶ Perform tasks on specific events triggered within the system.
<input checked="" type="checkbox"/> <b>Activity Tracker</b>	▶ Enables tracking of recent content for users.
<input type="checkbox"/> <b>Aggregator</b>	▶ Aggregates syndicated content (RSS, RDF, and Atom feeds) from external sources.
<input checked="" type="checkbox"/> <b>Automated Cron</b>	▶ Provides an automated way to run cron jobs, by executing them at the end of a server response.
<input type="checkbox"/> <b>Ban</b>	▶ Enables banning of IP addresses.

3. Click *Install*. The checked modules will be installed.

#### Using Drush

1. In the *Manage* administrative menu, navigate to *Extend (admin/modules)*. The *Extend* page appears showing all the available modules in your site.
2. Find the machine name of the module you want to install, by expanding the information area for the module. For instance, the core Activity Tracker module's machine name is *tracker*.

3. Run the following Drush command to install the module:

```
drush en tracker
```

## Expand your understanding

If you do not see the effect of these changes in your site, you might need to clear the cache. See [Section 12.2, "Clearing the Cache"](#).

## Videos

Installing a Module

[Installing a Module](#)

## Additional resources

[Drush](#)

## Attributions

Written and edited by [Boris Doesborg](#) and [Jennifer Hodgdon](#).

# 4.4. Uninstalling Unused Modules

## Goal

Uninstall the core Search and History modules, as well as the core Activity Tracker module if you installed it in [Section 4.3, "Installing a Module"](#), to reduce overhead.

## Prerequisite knowledge

[Section 1.2, "Concept: Modules"](#)

## Site prerequisites

- You must have at least one unused module on your site that you want to uninstall, such as the core Search module.
- If you want to use Drush to uninstall modules, Drush must be installed. See [Section 3.2, "Concept: Additional Tools"](#).

## Steps

You can use the administrative interface or Drush to uninstall modules.

## Using the administrative interface

1. In the *Manage* administrative menu, navigate to *Extend > Uninstall (admin/modules/uninstall)* where you will find the list of modules that are ready to be uninstalled.
2. Check the boxes for the modules you are uninstalling (*Search*, *History*, and *Activity Tracker*). Click *Uninstall* at the bottom of the page.

UNINSTALL	NAME	DESCRIPTION
<input checked="" type="checkbox"/>	<b>Activity Tracker</b>	Enables tracking of recent content for users.
<input type="checkbox"/>	<b>Automated Cron</b>	Provides an automated way to run cron jobs, by executing them at the end of a server response.
<input type="checkbox"/>	<b>Block</b>	Controls the visual building blocks a page is constructed with. Blocks are boxes of content rendered into an area, or region, of a web page. The following reason prevents Block from being uninstalled: <ul style="list-style-type: none"><li>• Required by: Custom Block</li></ul>
<input type="checkbox"/>	<b>Breakpoint</b>	Manage breakpoints and breakpoint groups for responsive designs. The following reason prevents Breakpoint from being uninstalled: <ul style="list-style-type: none"><li>• Required by: Toolbar</li></ul>

### Note

You cannot uninstall a module if it is required by some other module(s) and/or functionality. For example, the core File module is required by the core Text Editor, CKEditor, and Image modules. It can't be uninstalled unless you uninstall its dependent module(s) and functionality first. A module that cannot be uninstalled yet will have a disabled checkbox, restricting you from uninstalling it.

3. Step 2 will prompt you to confirm the module uninstall request. Click *Uninstall*.

## Confirm uninstall ★

[Home](#) » [Administration](#) » [Extend](#) » [Uninstall](#)

The following modules will be completely uninstalled from your site, and *all data from these modules will be lost!*

- Activity Tracker
- History
- Search

### ▼ CONFIGURATION DELETIONS

The listed configuration will be deleted.

#### Block

- Search

#### Search page

- Content
- Users

Would you like to continue with uninstalling the above?

[Uninstall](#)

[Cancel](#)

## Using Drush

1. In the *Manage* administrative menu, navigate to *Extend (admin/modules)*. The *Extend* page appears showing all the available modules in your site.
2. Find the machine name of the module you want to uninstall, by expanding the information area for the module. For instance, the core Activity Tracker module's machine name is *tracker*.
3. Run the following Drush command to uninstall the module:

```
drush pm-uninstall tracker
```

## Expand your understanding

- [Section 3.2, "Concept: Additional Tools"](#)
- [Section 12.2, "Clearing the Cache"](#)
- You can also uninstall the core Comment module by following these steps, but only after comment fields have been removed, which is a side effect of [Section 6.2, "Deleting a Content Type"](#).

## Videos

Uninstalling Unused Modules

[Uninstalling Unused Modules](#)

## Attributions

Written and edited by [Surendra Mohan](#), and [Jojo Alphonso](#) at [Red Crackle](#).

## 4.5. Configuring User Account Settings

### Goal

Turn off the ability for people to register user accounts on the site. Also, review and/or edit the email messages generated by the site for events related to user accounts.

### Prerequisite knowledge

[Section 4.1, "Concept: Administrative Overview"](#)

### Steps

1. In the *Manage* administrative menu, navigate to *Configuration > People > Account settings* (`admin/config/people/accounts`).
2. Under *Registration and cancellation*, select *Administrators only* as the people with permissions to register user accounts. You can check *Require email verification when a visitor creates an account* in case you want to change the settings for account registration later on.

### ▼ REGISTRATION AND CANCELLATION

#### Who can register accounts?

- Administrators only
- Visitors
- Visitors, but administrator approval is required

#### Require email verification when a visitor creates an account

New users will be required to validate their email address prior to logging into the site, and will be assigned a system-generated password. With this setting disabled, users will be logged in immediately upon registering, and may select their own passwords during registration.

#### Enable password strength indicator

#### When cancelling a user account

- Disable the account and keep its content.
- Disable the account and unpublish its content.
- Delete the account and make its content belong to the *Anonymous* user.

Users with the *Select method for cancelling account* or *Administer users permissions* can override this default method.

3. Optionally, change the default email address from which user account notifications from the farmers market website will be sent. This will help you maintain a separate email address from the one used for the website in general. For example, this email address for user account notifications will be useful for a staff member(s) communicating with vendors.

#### Notification email address

The email address to be used as the 'from' address for all account notifications listed below. If '*Visitors, but administrator approval is required*' is selected above, a notification email will also be sent to this address for any new registrations. Leave empty to use the default system email address (*info@example.com*).

4. Optionally, edit the email templates under *Emails* to customize automated emails. There are seven email templates available with the core. They are meant for different user-specific occasions. All of them can be personalized and three can be disabled via checkboxes: activation, blocking, and cancellation.

You can send out your own text (for example, welcoming the new vendors for whom accounts were just created) by editing the the *Welcome (new user created by administrator)* template.

## Basic Site Configuration

---

**Emails**

<b>Welcome (new user created by administrator)</b>	<b>WELCOME (NEW USER CREATED BY ADMINISTRATOR)</b>
<b>Welcome (awaiting approval)</b>	Edit the welcome email messages sent to new member accounts created by an administrator. Available variables are: [site:name], [site:url], [user:display-name], [user:account-name], [user:mail], [site:login-url], [site:url-brief], [user:edit-url], [user:one-time-login-url], [user:cancel-url].
<b>Admin (user awaiting approval)</b>	<b>Subject</b> An administrator created an account for you at [site:name]
<b>Welcome (no approval required)</b>	<b>Body</b> [user:display-name],  A site administrator at [site:name] has created an account for you. You may now log in by clicking this link or copying and pasting it into your browser:  [user:one-time-login-url]  This link can only be used once to log in and will lead you to a page where you can set your password.  After setting your password, you will be able to log in at [site:login-url] in the future using:  username: [user:name] password: Your password  -- [site:name] team
<b>Account activation</b>	
<b>Account blocked</b>	
<b>Account cancellation confirmation</b>	
<b>Account canceled</b>	
<b>Password recovery</b>	

5. Click *Save configuration* to save the changes.

## Expand your understanding

- [Section 12.2, "Clearing the Cache"](#)
- [Section 7.4, "Creating a User Account"](#)

## Related concepts

See [Chapter 7, Managing User Accounts](#) for more information about user accounts and permissions.

## Videos

Configuring User Account Settings

[Configuring User Account Settings](#)

## Additional resources

[Security Guide](#) can help you with a more safety-focused approach to configuration.

## Attributions

Written and edited by [Laura Vass](#) at [Pronovix](#), and [Jojo Alphonso](#) at [Red Crackle](#).

## 4.6. Configuring the Theme

### Goal

Edit the settings of the default core Bartik theme to change the color scheme and to add a logo.

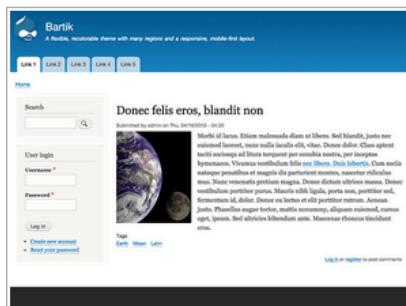
### Prerequisite knowledge

[Section 1.3, "Concept: Themes"](#)

### Steps

1. In the *Manage* administrative menu, navigate to *Appearance* (*admin/appearance*).
2. Under *Installed themes*, you will find Bartik listed as your default theme. Under *Bartik (default theme)*, click *Settings*.

#### Installed themes



#### Bartik 8.2.0-dev (default theme)

A flexible, recolorable theme with many regions and a responsive, mobile-first layout.

#### Settings

3. Under *Color scheme*, click inside each color build box and type the proper color codes you would like to add. For example, use the following colors:

Area	Color
Header background top	#7db84a (green)
Header background bottom	#2a3524 (dark green)
Main background	#ffffff (white)
Sidebar background	#f8bc65 (light orange)
Sidebar borders	#e96b3c (orange)
Footer background	#2a3524 (dark green)
Title and slogan	#ffffff (white)
Text color	#000000 (black)
Link color	#2a3524 (dark green)

Note: You can also use the color wheel on the right to select colors of your choice. The web color codes will be added for you.

**▼ COLOR SCHEME**

Color set	Custom	
Header background top	#7db84a	
Header background bottom	#2a3524	
Main background	#ffffff	
Sidebar background	#f8bc65	
Sidebar borders	#e96b3c	
Footer background	#2a3524	
Title and slogan	#ffffff	
Text color	#000000	
Link color	#2a3524	

- Under *Logo image*, uncheck *Use the logo supplied by the theme*.

**▼ LOGO IMAGE**

Use the logo supplied by the theme

**Path to custom logo**  
  
 Examples: logo.svg (for a file in the public filesystem), public://logo.svg, or core/themes/bartik/logo.svg.

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

- Under *Upload logo image*, locate a logo file and upload it to your site. Note: You can also set a universal logo for all themes under *Appearance > Settings (admin/appearance/settings)*. A custom logo for your theme will override the universal logo.

Once you have selected the file you would like to upload, you will see its filename next to the *Choose File* or *Browse* button in your browser.

- In order to save your changes and see the updated colors and logo on your site, click *Save configuration* at the bottom of the page.

Note: Under *Color scheme*, there is a *Preview* section that displays a sample of how your website will look with the new settings.

The screenshot shows a configuration interface for the Bartik theme. At the top, there's a green header bar with a circular logo on the left that reads "ANYTOWN FARMERS MARKET" and "FARM FRESH FOOD". To the right of the logo, the word "Bartik" is displayed. Below the header is a navigation bar with three items: "Home", "Te Quidne", and "Vel Torqueo Quae Erat".

The main content area is divided into two columns. The left column has a yellow background and contains the text "Etiam est risus" followed by a paragraph of placeholder text: "Maecenas id porttitor Ut enim ad minim veniam, quis nostrud felis. Laboris nisi ut aliquip ex ea".

The right column has a white background and contains the text "Lorem ipsum dolor" followed by a paragraph of placeholder text: "Sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Maecenas id porttitor Ut enim ad minim veniam, quis nostrud felis."

On the left side of the main content area, there's a dark sidebar with a yellow header section containing the text "ETIAM EST RISUS" and a paragraph of placeholder text: "Maecenas id porttitor Ut enim ad minim veniam, quis nostrud felis. Laboris nisi ut aliquip ex ea".

To the right of the sidebar, there's a dark sidebar with a yellow header section containing the text "ERISUS DOLOR" and a list of four items: "Donec placerat", "Nullam nibh dolor", "Blandit sed", and "Fermentum id".

7. Click *Return to site* or *Home* in the toolbar to verify that you have updated the core Bartik theme settings for your website.



## Expand your understanding

- [Section 11.4, "Finding Themes"](#)
- [Section 11.5, "Downloading and Installing a Theme from Drupal.org"](#)
- If you do not see the effect of these changes in your site, you might need to clear the cache. See [Section 12.2, "Clearing the Cache"](#).

## Videos

Configuring the Theme

[Configuring the Theme](#)

## Attributions

Written and edited by [Ann Greazel](#), [Amanda Luker](#) at [Advomatic](#), and [Jack Haas](#).

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# Chapter 5. Basic Page Management

## 5.1. Concept: Paths, Aliases, and URLs

### What is a URL?

URL is the abbreviation for "Uniform Resource Locator", which is the page's address on the web. It is the "name" by which a browser identifies a page to display. In the example "Visit us at *example.com*.", *example.com* is the URL for the home page of your website. Users use URLs to locate content on the web.

### What is a Path?

A path is the unique, last part of the URL for a specific function or piece of content. For example, for a page whose full URL is *http://example.com/node/7*, the path is *node/7*.

Here are some examples of paths you might find in your site:

- *node/7*
- *taxonomy/term/6*
- *admin/content/comment*
- *user/login*
- *user/3*

### What is an Alias?

The core software has a feature called "URL Alias" that allows you to provide a more understandable name to the content. So, if you have an "About Us" page with the path *node/7*, you can set up an alias so that your visitors will see it as *http://www.example.com/AboutUs*. The core Path module, which supports URL aliasing, provides this functionality.

### Related topics

- [Section 5.2, "Creating a Content Item"](#)
- [Section 5.3, "Editing a Content Item"](#)

### Attributions

Adapted by [Diána Lakatos](#) at [Pronovix](#) from "[URL aliases](#)", and "[Understanding Drupal paths](#)" copyright 2000-2017 by the individual contributors to the [Drupal Community Documentation](#)

## 5.2. Creating a Content Item

### Goal

Create and publish a content item that will be used as the home page of the site.

### Prerequisite knowledge

[Section 5.1, "Concept: Paths, Aliases, and URLs"](#)

### Site prerequisites

The *Basic page* content type must exist. This is created on your site when you install with the core Standard installation profile.

### Steps

1. In the *Manage* administrative menu, navigate to *Content > Add content > Basic page (node/add/page)*. The *Create Basic page* form appears.
2. Click *Edit summary*.
3. Fill in the fields as shown below.

Field name	Explanation	Value
Title	Title of the page. Will also be used as a meta tag in the source code, URL alias, and as label of the content item in administration screens	Home
Summary	Summary of the value of the body field. Can be used as teaser in overview pages	Opening times and location of City Market.
Body	Full content of the page	Welcome to City Market - your neighborhood farmers market!  Open: Sundays, 9 AM to 2 PM, April to September  Location: Parking lot of Trust Bank, 1st & Union, downtown
Published	Whether the content is published for public view or not	Checked

Field name	Explanation	Value
URL path settings > URL alias	Alternate relative path for the content	/home

By clicking the *Source* button in the rich text editor toolbar, you can see the HTML source code of the text that you are editing.

**Create Basic page ☆**

Home » Add content

**Title \***  
Home

**Summary (Hide summary)**  
Opening times and location of City Market

Leave blank to use trimmed value of full text as the summary.

**Body**

**Text format** Basic HTML [About text formats](#)

Published

**Save** **Preview**

4. Click *Preview* to ensure everything looks like expected.
5. Click *Back to content editing*.
6. Click *Save*. The content is saved and can be found on the *Content* page.
7. Follow the same steps to create an About page, with title "About", and a body telling about the history of the farmer's market.

## Expand your understanding

- [Section 5.5, "Designating a Front Page for your Site"](#)
- [Section 5.7, "Adding a Page to the Navigation"](#)
- [Section 10.3, "Translating Content"](#)

## Related concepts

- [Section 2.7, "Concept: User Interface, Configuration, and Content translation"](#)
- [Section 5.1, "Concept: Paths, Aliases, and URLs"](#)

- [\*Section 5.3, "Editing a Content Item"\*](#)

## Videos

Creating a Content Item

[\*Creating a Content Item\*](#)

## Additional resources

[\*Drupal.org community documentation page "About nodes"\*](#)

### Attributions

Written by [\*Agnes Kiss\*](#) and [\*Boris Doesborg\*](#).

# 5.3. Editing a Content Item

## Goal

Update the hours on the Home page content item.

## Prerequisite knowledge

[\*Section 5.2, "Creating a Content Item"\*](#)

## Site prerequisites

A content item for the Home page must exist. See [\*Section 5.2, "Creating a Content Item".\*](#)

## Steps

1. In the *Manage* administrative menu, navigate to *Content (admin/content)*.
2. If the content item you want to edit was updated or created recently, it should appear near the top of the content list on that page. If not, you can use the *Content type*, *Title*, or other filters to locate the content item.

## Basic Page Management

Title  Content type  Published status  Language

**Filter**

Action  Delete content

**Apply to selected items**

[Hide lower priority columns](#)

<input type="checkbox"/>	TITLE	CONTENT TYPE	AUTHOR	STATUS	UPDATED	OPERATIONS
<input type="checkbox"/>	About	Basic page	admin	Published	06/16/2017 - 16:10	<b>Edit</b> <input type="button" value="▼"/>
<input type="checkbox"/>	Home	Basic page	admin	Published	06/16/2017 - 16:10	<b>Edit</b> <input type="button" value="▼"/>

**Apply to selected items**

3. Click *Edit* in the row of the content item you want to edit (Home), to open the content editing form. Update the opening hours in the *Body* field. See [Section 5.2, "Creating a Content Item"](#) for an explanation of the fields and a screenshot.
4. Check *Create new revision* under *Published*, if it is not already checked, and enter a *Revision log message* explaining what changes you are making (for example, you might enter "Updated opening hours"). This text will appear in the revision log for the page.

**Published**

**Last saved:** 07/06/2016 - 15:55

**Author:** admin

Create new revision

**Revision log message**

Updated opening hours

Briefly describe the changes you have made.

5. Click *Save* to save your changes.
6. You will be redirected back to the *Content* administrative page, and there should be a message showing that the content item was updated.

✓ Basic page [Home](#) has been updated.

## Expand your understanding

As an alternative to the first two steps above, you can also reach the content edit form as follows:

1. Starting from your site's home page, use the site's navigation menus to locate the page where the content you want to edit is displayed to visitors.
2. Most themes will display an *Edit* link or tab near the top of that page to people with permission to edit the page; clicking the link will take you to the full content edit form.
3. You could also use the in-place editor (refer to [Section 5.4, "Editing with the In-Place Editor"](#)) from this page.

## Videos

Editing a Content Item

[Editing a Content Item](#)

### Attributions

Written by [Chris Dart](#) and [Jennifer Hodgdon](#).

## 5.4. Editing with the In-Place Editor

### Goal

Use the in-place editor to add information to the About page without opening the full editor page.

### Prerequisite knowledge

- [Section 2.3, "Concept: Content Entities and Fields"](#)
- [Section 5.2, "Creating a Content Item"](#)
- [Section 5.3, "Editing a Content Item"](#)
- [Section 4.1, "Concept: Administrative Overview"](#)

### Site prerequisites

The About page you want to edit must exist. See [Section 5.2, "Creating a Content Item"](#).

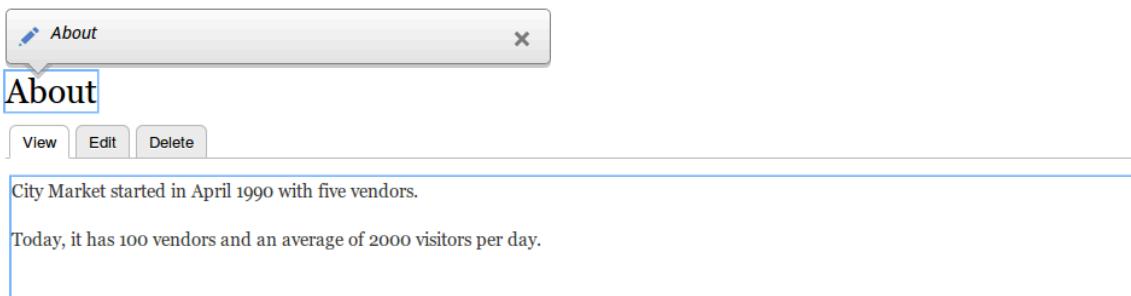
### Steps

Navigate to the About page to edit content with the in-place editor. If the page has not yet been added to a navigation menu, you can find and open it by following these steps:

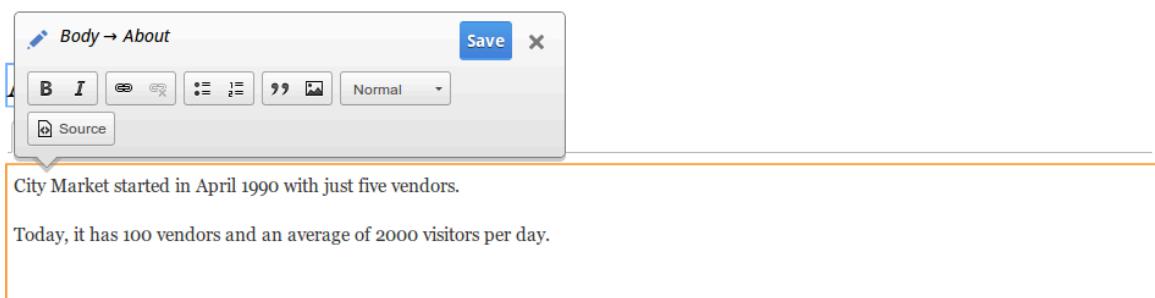
1. In the *Manage* administrative menu, navigate to *Content (admin/content)*.
2. If the content item you want to edit was updated or created recently, it should appear near the top of the content list on that page. If not, you can use *Type*, *Title*, or other filters to locate the content item.
3. Find the About page and click it.

Once the content you want to edit is being viewed in your browser, follow these steps to use the quick editor:

1. Find the section of the page that displays the content you want to edit, and turn on quick editing mode using the *Quick edit* contextual link (see [Section 4.1, "Concept: Administrative Overview"](#) for instructions on how to access contextual links). You will see each editable field on this content item outlined in blue; also, a hovering dialog box will appear.



2. Click the *Body* text area to begin editing. The *Body* field supports a rich text editor. The editing toolbar will be displayed in a hovering dialog box.
3. Add some information about City Market. A *Save* button will appear in the hovering dialog box, and the field outline will change color.



4. If you are satisfied with your edits, click *Save* in the hovering dialog box. If not, click "x" to discard your edits, and confirm. Either way, quick editing mode will be turned off.

## Expand your understanding

Try using the full editor on the same content (see [Section 5.3, "Editing a Content Item"](#)) and note that there is much more information that can be edited that is not available in the quick editor.

## Videos

Editing with the In-Place Editor

[Editing with the In-Place Editor](#)

### Attributions

Written and edited by [David Lee](#) and [Jennifer Hodgdon](#).

## 5.5. Designating a Front Page for your Site

### Goal

Configure which content item is displayed as the front page of your website.

### Site prerequisites

The content item that you want to designate as the front page of your site must exist. See [Section 5.2, "Creating a Content Item"](#).

### Steps

1. In the *Manage* administrative menu, navigate to *Configuration > System > Basic site settings* (`admin/config/system/site-information`).
2. Under *Front page*, replace `/node` with the name of the page you would like to make the home page. To use the home page that was previously created, provide its path `/home`. Click *Save configuration*.

The screenshot shows a configuration form for the 'Front page'. At the top, there is a section titled '▼ FRONT PAGE'. Below it, there is a field labeled 'Default front page' with a value of 'http://example.com /home'. A note below the field says: ' Optionally, specify a relative URL to display as the front page. Leave blank to display the default front page.'

3. Navigate to the home page to verify that it displays content as configured by you.

Anytown Farmers Market  
Farm Fresh Food

My account Log out

Home Tools Add content

Home

View Edit Delete Revisions

Welcome to City Market - your neighborhood farmers market!

Open: Sundays, 9 AM to 2 PM, April to September

Location: Parking lot of Trust Bank, 1st & Union, downtown

## Expand your understanding

- [Section 5.7, "Adding a Page to the Navigation"](#)
- Follow [Section 5.2, "Creating a Content Item"](#) to create an error page to be used as a 404 (page not found) or 403 (not authorized) response on your site. Then following the steps here, you can designate it as the error response, in the *Error pages* section of the configuration.

## Related concepts

[Section 5.6, "Concept: Menu"](#)

## Videos

Designating a Front Page for Your Site

[Designating a Front Page for Your Site](#)

## Attributions

Written and edited by [Ann Greazel](#), [Jack Haas](#), and [Jojo Alphonso](#) at [Red Crackle](#).

## 5.6. Concept: Menu

### What is a menu?

Menus are a collection of links (menu items) used to navigate a website. The core Menu UI module provides an interface to control and customize the menu system. Menus are

primarily displayed as a hierarchical list of links. By default, new menu items are placed inside a built-in menu labeled *Main navigation*, but administrators can also create custom menus.

The core Standard installation profile contains five menus:

### Main navigation

Links to sections intended for site visitors. They are usually created by site administrators.

### Administration

Links to administrative tasks. This menu mainly contains links supplied by modules on your site.

### User account menu

Links to tasks associated with the user account such as *My account* and *Log out*.

### Footer

Links to important pages within the site intended for the footer. They are usually created by site administrators.

### Tools

Links to tasks necessary for site visitors. Some modules feature their links here.

You can customize menus in the following ways, using the menu administration functionality:

- Creating new custom menus.
- Adding new menu items.
- Reordering menu items by setting their "weight" or by dragging them into place.
- Renaming menu items.
- Changing the link title (the tooltip that appears when you mouse over a menu item).
- Moving a menu item into a different menu by editing its *Parent* property.

A menu item will only be shown to a visitor if they have the rights to view the page it links to. For example, the admin menu item is not shown to visitors who are not logged in.

## Related topics

- [Section 5.7, "Adding a Page to the Navigation"](#)
- [Section 5.8, "Changing the Order of Navigation"](#)
- To display a menu, you will need to place the block that corresponds to the menu in a region of your theme; see [Section 8.1, "Concept: Blocks"](#), [Section 2.1, "Concept: Regions in a Theme"](#), and [Section 8.3, "Placing a Block in a Region"](#). The core Standard installation profile places all of the menus it defines except Administration in regions of the core

Bartik theme. The core Toolbar module, which is installed by the core Standard installation profile, displays the Administration menu; it is also displayed by the contributed Admin Toolbar module.

## Attributions

Written and edited by [Ajay Viswambharan](#), [Jojo Alphonso](#) at [Red Crackle](#), and [Jennifer Hodgdon](#).

# 5.7. Adding a Page to the Navigation

## Goal

Add a page to the navigation. For example, the About page.

## Prerequisite knowledge

- [Section 5.6, "Concept: Menu"](#)
- [Section 5.3, "Editing a Content Item"](#)

## Site prerequisites

The About page content item must exist. See [Section 5.2, "Creating a Content Item"](#).

## Steps

1. In the *Manage* administrative menu, navigate to *Content* (`admin/content`).
2. Find the About page, and click *Edit* in that row. The content editing form appears.

<input type="checkbox"/> TITLE	CONTENT TYPE	AUTHOR	STATUS	UPDATED	OPERATIONS
<input type="checkbox"/> Home	Basic page	admin	Published	07/06/2016 - 12:52	<button>Edit</button> <span>▼</span>
<input type="checkbox"/> About	Basic page	admin	Published	07/06/2016 - 12:52	<span style="outline: 2px solid red;">Edit</span> <span>▼</span>

3. Click *Menu settings* on the right to expand it.
4. Check *Provide a menu link* for the menu options to appear.
5. Enter values from the table below:

Field name	Explanation	Example value
Menu link title	Title that will be displayed in the menu	About

Field name	Explanation	Example value
Description	Text that will be displayed when a visitor hovers over the link	History of the market
Parent item	Location of the page in the menu hierarchy. For example, if you choose <Main navigation>, the page will appear in the highest level of the navigation. By choosing another menu item as parent, you can create a menu hierarchy of multiple levels.	<Main navigation>
Weight	The order in which the page should appear in the menu (lower-weighted menu items will be shown before higher-weighted menu items)	-2

▼ MENU SETTINGS

Provide a menu link

**Menu link title**  
About

**Description**  
History of the market

Shown when hovering over the menu link.

**Parent item**  
<Main navigation> ▼

**Weight**  
-2

Menu links with lower weights are displayed before links with higher weights.

- Click *Save* to save the changes. Click *Home* or *Return to site* in the navigation bar to see the result, which could look like the picture below.

ANYTOWN FARMERS MARKET  
FARM FRESH FOOD

Anytown Farmers Market  
Farm Fresh Food

About Home

Tools Add content

Home

View Edit Delete Revisions

Welcome to City Market - your neighborhood farmers market!

Open: Sundays, 9 AM to 2 PM, April to September

Location: Parking lot of Trust Bank, 1st & Union, downtown

## Expand your understanding

[Section 5.8, "Changing the Order of Navigation"](#)

## Videos

Adding a Page to the Navigation

[Adding a Page to the Navigation](#)

## Additional resources

[Drupal.org community documentation page "Working with menus"](#)

## Attributions

Adapted by [Boris Doesborg](#) from ["Working with Menus"](#), copyright 2000-2017 by the individual contributors to the [Drupal Community Documentation](#); edited by [Jack Haas](#).

## 5.8. Changing the Order of Navigation

### Goal

Reorder the items in a menu.

### Prerequisite knowledge

- [Section 5.6, "Concept: Menu"](#)
- [Section 5.7, "Adding a Page to the Navigation"](#)

## Site prerequisites

Home and About pages must exist in the main navigation menu. See [Section 5.7, "Adding a Page to the Navigation"](#).

## Steps

1. In the *Manage* administrative menu, navigate to *Structure > Menus (admin/structure/menu)* where all menus on your site are listed. Click *Edit Menu* from the *Operations* dropdown for *Main navigation*. You can also reach this page using contextual links (refer to [Section 4.1, "Concept: Administrative Overview"](#)) for the menu. Note that the names and descriptions of the menus that were provided by your installation profile are shown in English on this page; see [Section 2.7, "Concept: User Interface, Configuration, and Content translation"](#) for an explanation.

TITLE	DESCRIPTION	OPERATIONS
Administration	Administrative task links	<a href="#">Edit menu</a> ▾
Footer	Site information links	<a href="#">Edit menu</a> ▾
Main navigation	Site section links	<a href="#">Edit menu</a> ▾
Tools	User tool links, often added by modules	<a href="#">Edit menu</a> ▾
User account menu	Links related to the active user account	<a href="#">Edit menu</a> ▾

2. The *Edit menu* page will display a list of each item in the menu you chose (*Main navigation*).

MENU LINK	ENABLED	OPERATIONS
✚ About	<input checked="" type="checkbox"/>	<a href="#">Edit</a> ▾
✚ Home	<input checked="" type="checkbox"/>	<a href="#">Edit</a>
<b>Save</b>		

3. Use the cross bar handles to reorder the menu items. Drag the Home menu item above the About menu item so that it appears first.

<span style="color: orange;">⚠ *You have unsaved changes.</span>		
MENU LINK	ENABLED	OPERATIONS
✚ Home	<input checked="" type="checkbox"/>	<a href="#">Edit</a>
✚ About	<input checked="" type="checkbox"/>	<a href="#">Edit</a> ▾
<b>Save</b>		

4. Click *Save*.

5. The home page now displays the main navigation with the Home menu item displayed first.



## Expand your understanding

Add a menu item called *Contact*, leading to the `/contact` page, to your Main navigation menu. The contact page is provided by the core Contact module; you may want to edit its layout and fields (see [Section 6.9, "Changing Content Entry Forms"](#)).

## Related concepts

[Section 5.6, "Concept: Menu"](#)

## Videos

Changing the Order of Navigation

[Changing the Order of Navigation](#)

## Attributions

Written by [Ann Greazel](#).

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# Chapter 6. Setting Up Content Structure

## 6.1. Adding a Content Type

### Goal

Add and configure a new content type Vendor.

### Prerequisite knowledge

[Section 2.3, "Concept: Content Entities and Fields"](#)

### Site prerequisites

You need to have a plan in place for your content structure. See [Section 2.5, "Planning your Content Structure"](#).

### Steps

1. In the *Manage* administrative menu, navigate to *Structure > Content types* (*admin/structure/types*). The *Content types* page appears showing all the available types of content. Note that the names and descriptions of the content types that were provided by your installation profile are shown in English on this page; see [Section 2.7, "Concept: User Interface, Configuration, and Content translation"](#) for an explanation.
2. Click *Add content type*. The *Add content type* page appears. Fill in the fields as shown below.

Field name	Explanation	Example value
Name	Name of the content type	Vendor
Description	Explain the use of the content type	Information about a vendor

## Setting Up Content Structure

Home » Administration » Structure » Content types

Individual content types can have different fields, behaviors, and permissions assigned to them.

### Name \*

Vendor

Machine name: vendor [Edit]

The human-readable name of this content type. This text will be displayed as part of the list on the *Add content* page. This name must be unique.

### Description

Information about a vendor

This text will be displayed on the *Add new content* page.

3. Under *Submission form settings*, configure the form that is used for creating and editing content of this type. Fill in the fields as shown below.

Field name	Explanation	Example value
Title field label	Label of the Title field that is shown when editing or creating content of this type.	Vendor name
Preview before submitting	Option to choose whether you should preview the content before submitting.	Optional
Explanation or submission guidelines	Instructions for creating or editing content.	(Leave blank)

**Submission form settings**

Vendor name

**Publishing options**  
Published, Create new revision

**Display settings**  
Don't display post information

**Menu settings**

**Title field label \***  
Vendor name

**Preview before submitting**  
 Optional  
 Required

**Explanation or submission guidelines**

This text will be displayed at the top of the page when creating or editing content of this type.

- Under *Publishing options*, decide on default options for new content of this type. Fill in the fields as shown below.

Field name	Explanation	Example value
Published	Make the content item published by default.	Checked
Promoted to front page	In a default website, this setting can be used to show content on the homepage.	Unchecked
Sticky at top of lists	In a default website, this setting can be used to keep content on top of a list.	Unchecked
Create new revision	Create a new revision each time the vendor is being edited.	Checked

Changing these settings does not affect the content items that have already been created.

The screenshot shows the 'Vendor' content type configuration page. On the left, there are four sections: 'Submission form settings' (Vendor name), 'Publishing options' (Published, Create new revision), 'Display settings' (Don't display post information), and 'Menu settings'. On the right, under 'Default options', the following checkboxes are checked: 'Published', 'Create new revision', and 'Create new revision' again (which appears to be a typo). A note below states: 'Users with the *Administer content* permission will be able to override these options.'

- Under *Display settings*, decide if the author and publication date will be visible in the content item. Fill in the fields as shown below.

Field name	Explanation	Example value
Display author and date information	Display the author username and publication date on each vendor page.	Unchecked

## Setting Up Content Structure

<b>Submission form settings</b> Vendor name	<input type="checkbox"/> Display author and date information Author username and publish date will be displayed.
<b>Publishing options</b> Published , Create new revision	
<b>Display settings</b> Don't display post information	
<b>Menu settings</b>	

6. Under *Menu settings*, fill in the fields as shown below.

Field name	Explanation	Example value
Available menus	Menus that this type of content can be added to. Vendors do not need to appear in menus, so uncheck all menu options.	Unchecked

<b>Submission form settings</b> Vendor name	<b>Available menus</b>
<b>Publishing options</b> Published, Create new revision	<input type="checkbox"/> Administration <input type="checkbox"/> Footer <input type="checkbox"/> Main navigation <input type="checkbox"/> Tools <input type="checkbox"/> User account menu
<b>Display settings</b> Don't display post information	The menus available to place links in for this content type.
<b>Menu settings</b>	<b>Default parent item</b> <input type="text" value="&lt;User account menu&gt;"/> Choose the menu item to be the default parent for a new link in the content authoring form.

7. Click *Save and manage fields* to save the content type. The *Manage fields* page appears that allows you to add fields to the content type. See [Section 6.3, "Adding Basic Fields to a Content Type"](#)

The screenshot shows the 'Manage fields' interface for a 'Vendor' content type. At the top, there are tabs: 'Edit', 'Manage fields' (which is active), 'Manage form display', and 'Manage display'. Below the tabs, a breadcrumb navigation shows: Home > Administration > Structure > Content types > Vendor. A green success message box contains the text: '✓ The content type Vendor has been added.' Below the message is a blue button labeled '+ Add field'. The main area is a table with four columns: 'LABEL', 'MACHINE NAME', 'FIELD TYPE', and 'OPERATIONS'. There is one row in the table:

LABEL	MACHINE NAME	FIELD TYPE	OPERATIONS
Body	body	Text (formatted, long, with summary)	<a href="#">Edit</a> <a href="#">▼</a>

- Follow the same steps to create a content type for recipes. Example values for the fields in the forms, where they are different from the steps above:

Field name	Example value
Name	Recipe
Description	A recipe submitted by a vendor
Submission form settings - Title	Recipe name

## Expand your understanding

- [Section 6.3, "Adding Basic Fields to a Content Type"](#)
- Install and configure the [contributed Pathauto module](#) so that content items get automatically generated URLs/path aliases. See [Section 5.1, "Concept: Paths, Aliases, and URLs"](#) for more on URLs within your site, [Section 11.1, "Finding Modules"](#) for instructions on finding contributed modules, and [Section 11.3, "Downloading and Installing a Module from Drupal.org"](#) for instructions on downloading and installing contributed modules.

## Videos

Adding a Content Type

[Adding a Content Type](#)

## Attributions

Written and edited by [Sree Veturi](#), [Boris Doesborg](#), and [Jennifer Hodgdon](#).

## 6.2. Deleting a Content Type

### Goal

Delete the unneeded content type *Article*.

### Prerequisite knowledge

[Section 4.1, "Concept: Administrative Overview"](#)

### Site prerequisites

The *Article* content type must exist. It is created on your site when you install with the core Standard installation profile.

### Steps

1. In the *Manage* administrative menu, navigate to *Structure > Content types* (`admin/structure/types`). The *Content types* page appears.
2. Click *Delete* in the *Operations* dropdown button for the *Article* content type. Note that the name of this content type is in English on this page; see [Section 2.7, "Concept: User Interface, Configuration, and Content translation"](#) for an explanation.

NAME	DESCRIPTION	OPERATIONS
Article	Use articles for time-sensitive content like news, press releases or blog posts.	<a href="#">Manage fields</a> <a href="#">Manage form display</a> <a href="#">Manage display</a> <a href="#">Edit</a> <a href="#">Delete</a>
Basic page	Use basic pages for your static content, such as an 'About us' page.	
Recipe	Recipe submitted by a vendor	
Vendor	Information about a vendor	

3. A confirmation page is displayed. Click *Delete*.

**Are you sure you want to delete the content type Article?**

★

Home » Administration » Structure » Content types » Article

This action cannot be undone.

▼ CONFIGURATION DELETIONS

The listed configuration will be deleted.

**Entity form display**

- node.article.default

**Entity view display**

- node.article.default
- node.article.rss
- node.article.teaser

**Field**

- Body
- Comments
- Image
- Tags

**RDF mapping**

- node.article

**Delete** **Cancel**

4. The *Content types* page appears with a confirmation message saying that the content type has been deleted:

✓ The content type *Article* has been deleted.

## Videos

Deleting a Content Type

[Deleting a Content Type](#)

## Attributions

Written and edited by [Sree Veturi](#) and [Boris Doesborg](#).

## 6.3. Adding Basic Fields to a Content Type

### Goal

Add a link field and an image field to the Vendor content type.

## Prerequisite knowledge

[Section 2.3, "Concept: Content Entities and Fields"](#)

## Site prerequisites

The Vendor content type must exist. See [Section 6.1, "Adding a Content Type"](#).

## Steps

Add the fields Vendor URL and Main image to the Vendor content type.

1. In the *Manage* administrative menu, navigate to *Structure > Content types (admin/structure/types)*. Then click *Manage fields* in the dropdown button for the Vendor content type. The *Manage fields* page appears. Note that the names and descriptions of the content types and fields that were provided by your installation profile are shown in English on these pages; see [Section 2.7, "Concept: User Interface, Configuration, and Content translation"](#) for an explanation.
2. Click *Add field*. The *Add field* page appears. You can either create a new field for the content type or re-use an existing field.
3. Fill in the fields as shown below.

Field name	Explanation	Value
Add a new field	Field type	Link
Label	Label that is visible in administration pages	Vendor URL

A machine name is automatically generated, based on the *Label* value. Click *Edit* if you want to override the default name.

The screenshot shows the 'Add field' form. At the top, it says 'Add field ★'. Below that is the breadcrumb trail: Home > Administration > Structure > Content types > Vendor > Manage fields. The main section is titled 'Add a new field'. A dropdown menu shows 'Link' selected. Below it, the 'Label\*' field contains 'Vendor URL' and has a note 'Machine name: field\_vendor\_url [Edit]'. At the bottom is a blue 'Save and continue' button.

4. Click *Save and continue*. The page Vendor URL appears which lets you set the allowed number of values. Fill in the fields as shown below.

## Setting Up Content Structure

Field name	Explanation	Value
Allowed number of values	The number of values that can be entered	Limited, 1

5. Click *Save field settings*. The page *Vendor URL settings for Vendor* appears which allows you to configure the field. Fill in the fields as shown below.

Field name	Explanation	Value
Label	Label that is visible in the content form	Vendor URL
Help text	The instruction that is shown below the field	(leave blank)
Required field	Whether the field is required or not	Unchecked
Allowed link type	The kind of links that can be entered	External links only
Allow link text	Whether a link text can be entered	Disabled

**Vendor URL settings for Vendor ☆**

[Edit](#) [Field settings](#)

Home » Administration » Structure » Content types » Vendor » Manage fields

**Label \***  
Vendor URL

**Help text**

Instructions to present to the user below this field on the editing form.  
Allowed HTML tags: <a> <b> <big> <code> <del> <em> <i> <ins> <pre> <q> <small> <span> <strong> <sub> <sup> <tt> <ol> <ul> <li> <p> <br> <img>  
This field supports tokens.

Required field

**▼ DEFAULT VALUE**  
The default value for this field, used when creating new content.  
**Vendor URL**

This must be an external URL such as <http://example.com>.

**Allowed link type**  
 Internal links only  
 External links only  
 Both internal and external links

**Allow link text**  
 Disabled  
 Optional  
 Required

6. Click *Save settings*. The Vendor URL has been added to the content type. Continue creating the Main image field.
7. Click *Add field*. The *Add field* page appears. Fill in the fields as shown below.

Field name	Explanation	Value
Add a new field	Field type	Image
Label	Label that is visible in administration pages	Main image

- Click *Save and continue*. The page Main image appears. Fill in the fields as shown below.

Field name	Explanation	Value
Allowed number of values	The number of values that can be entered	Limited, 1

You can set a default image here. This will be used when you do not provide an image when creating a Vendor content item.

- Click *Save field settings*. The page *Main image settings for Vendor* appears. Fill in the fields as shown below.

Field name	Explanation	Value
Label	Label that is visible in the content form	Main image
Help text	The instruction that is shown below the field	(leave blank)
Required field	Whether the field is required or not	Checked
Allowed file extensions	The type of images that can be uploaded	png, gif, jpg, jpeg
File directory	The directory where the files will be stored. By providing a file directory value, you ensure that all images uploaded via the Main image field will be located in the same directory.	vendors
Minimum image resolution	The minimum resolution of the uploaded image	600 x 600
Maximum upload size	The maximum file size of the uploaded image	5 MB
Enable Alt field	Whether an alternative text can be entered	Checked
Alt field required	Whether an alternative text is required	Checked

## Setting Up Content Structure

**Main image settings for Vendor ☆**

[Edit](#) [Field settings](#)

Home » Administration » Structure » Content types » Vendor » Manage fields

**Label \***  
Main image

**Help text**

Instructions to present to the user below this field on the editing form.  
Allowed HTML tags: <a> <b> <big> <code> <del> <em> <i> <ins> <pre> <q> <small> <span> <strong> <sub> <sup> <tt> <ol> <ul> <li> <p> <br> <img>  
This field supports tokens.

Required field

**▼ DEFAULT IMAGE**

If no image is uploaded, this image will be shown on display and will override the field's default image.

**Image**  
[Browse...](#) No file selected.

Image to be shown if no image is uploaded.

**Alternative text**

This text will be used by screen readers, search engines, and when the image cannot be loaded.

**Title**

The title attribute is used as a tooltip when the mouse hovers over the image.

**Allowed file extensions \***  
png, gif, jpg, jpeg

Separate extensions with a space or comma and do not include the leading dot.

**File directory**

10. Click *Save settings*. Main image has been added to the content type.

**Manage fields ☆**

[Edit](#) [Manage fields](#) [Manage form display](#) [Manage display](#)

Home » Administration » Structure » Content types » Vendor

Saved Main image configuration.

[+ Add field](#)

LABEL	MACHINE NAME	FIELD TYPE	OPERATIONS
Body	body	Text (formatted, long, with summary)	<a href="#">Edit</a> ▾
Main image	field_main_image	Image	<a href="#">Edit</a> ▾
Vendor URL	field_vendor_url	Link	<a href="#">Edit</a> ▾

11. Add a Main image field to the Recipe content type, using similar steps. Start by navigating to the Recipe content type's *Manage Fields* page in step 1. Then skip to step 7 and follow the remaining steps, but reuse the existing Main image field you created for the Vendor content type rather than creating a new field. In subsequent steps, some of the configuration screens will not be available, because of the field reuse.
12. Create two Vendor content items (see [Section 5.2, "Creating a Content Item"](#)) called "Happy Farm" and "Sweet Honey". Make sure that they include images and URLs.

## Expand your understanding

- [Section 6.12, "Concept: Image Styles"](#)
- [Section 6.11, "Changing Content Display"](#)
- [Section 6.9, "Changing Content Entry Forms"](#)

## Videos

Adding Basic Fields to a Content Type

[Adding Basic Fields to a Content Type](#)

## Additional resources

[Drupal.org community documentation page "Add a field to a content type"](#)

### Attributions

Written by [Sree Veturi](#) and [Boris Doesborg](#).

## 6.4. Concept: Reference Fields

### Prerequisite knowledge

[Section 2.3, "Concept: Content Entities and Fields"](#)

### What is a reference field?

A *reference field* is a field that represents a relationship between an entity and one or more other entities, which may belong to the same or different entity type. The three most commonly-used reference fields are:

Content reference

A reference to a content item. For example, you might want to connect recipes to the vendors who submitted them. You would set up a content reference field called Submitted by referencing Vendor content items on the Recipe content type.

Taxonomy term reference

A reference to a taxonomy term. For example, you might want to connect recipes to their ingredients. You would set up a taxonomy term reference field called Ingredients on the Recipe content type. This reference field will point to the vocabulary Ingredients.

## User reference

A reference to a user account. For example, you might want to connect recipes with their chefs. You would set up a user reference field called Chefs on the Recipe content type.

## Related topics

[Section 6.5, "Concept: Taxonomy"](#)

### Attributions

Written and edited by [Surendra Mohan](#), and [Jojo Alphonso](#) at [Red Crackle](#).

## 6.5. Concept: Taxonomy

### Prerequisite knowledge

- [Section 2.3, "Concept: Content Entities and Fields"](#)
- [Section 6.4, "Concept: Reference Fields"](#)

### What is Taxonomy?

*Taxonomy* is used to classify website content. One common example of taxonomy is the tags used to classify or categorize posts in a blog website; the farmers market website could use an ingredients taxonomy to classify recipes. Individual taxonomy items are known as *terms* (the blog tags or recipe ingredients in these examples); and a set of terms is known as a *vocabulary* (the set of all blog post tags, or the set of all recipe ingredients in these examples). Technically, taxonomy terms are an entity type and the entity subtypes are the vocabularies. Like other entities, taxonomy terms can have fields attached; for instance, you could set up an image field to contain an icon for each term.

An individual vocabulary can organize its terms in a hierarchy, or it could be flat. For example, blog tags normally have a flat structure, while a recipe ingredients vocabulary could be hierarchical (for example, tomatoes could be a sub-term of vegetables, and under tomatoes, you could have green and red tomatoes).

Taxonomy terms are normally attached as reference fields to other content entities, which is how you can use them to classify content. When you set up a taxonomy reference field, you can let users enter terms in two ways:

#### Free tagging

New terms can be created right on the content editing form.

#### Fixed list of terms

The list of terms is curated and managed outside the content editing form, and users can only choose from the existing list when editing content.

Taxonomy reference fields can be added to any entity, such as user accounts, custom blocks, or regular content items. If you use them to classify regular content items, your site will automatically be set up with taxonomy listing pages for each term; each of these pages lists all of the content items that are classified with that term. For example, if you created several recipes that all had carrots as an ingredient, you might see something like this on the Carrots taxonomy listing page:

### Carrots

#### Fresh Carrots

Serve multi-colored carrots on a plate for dinner.

[Read more](#)

---

#### Green Salad

Chop up your favorite vegetables and put them in a bowl.

[Read more](#)

---

## Related topics

- [Section 6.6, "Setting Up a Taxonomy".](#)
- The listing pages are views, which are covered in [Chapter 9, Creating Listings with Views](#).

## Attributions

Adapted and edited by [Surendra Mohan](#), [Jennifer Hodgdon](#), and [Jojo Alphonso](#) at [Red Crackle](#) from ["Organizing content with taxonomies"](#) and ["About taxonomies"](#), copyright 2000-2017 by the individual contributors to the [Drupal Community Documentation](#).

# 6.6. Setting Up a Taxonomy

## Goal

Create an Ingredients vocabulary and add it to the Recipe content type as a field that can contain an unlimited number of values and that allows adding new terms to the vocabulary.

## Prerequisite knowledge

- [Section 2.3, "Concept: Content Entities and Fields"](#)
- [Section 6.5, "Concept: Taxonomy"](#)
- [Section 6.3, "Adding Basic Fields to a Content Type"](#)

## Site prerequisites

The Recipe content type must exist. See [Section 6.1, "Adding a Content Type"](#).

## Steps

1. In the *Manage* administrative menu, navigate to *Structure > Taxonomy (admin/structure/taxonomy)*. You will see the *Tags* vocabulary that was created with the core Standard installation profile. (Note that the name and description of this vocabulary are shown in English on this page; see [Section 2.7, "Concept: User Interface, Configuration, and Content translation"](#) for an explanation.)

The screenshot shows the 'Taxonomy' administration page. At the top, there's a header with the title 'Taxonomy' and a star icon. Below the header, a breadcrumb navigation shows 'Home > Administration > Structure'. A descriptive text explains that Taxonomy is for categorizing content, with terms grouped into vocabularies. It gives an example of a 'Fruit' vocabulary containing 'Apple' and 'Banana'. A blue button labeled '+ Add vocabulary' is visible. The main area displays a table with one row for the 'Tags' vocabulary. The table has two columns: 'VOCABULARY NAME' and 'OPERATIONS'. The 'VOCABULARY NAME' column contains 'Tags'. The 'OPERATIONS' column contains a link labeled 'List terms' with a dropdown arrow.

2. Click *Add vocabulary*, and fill in the values below.

Field name	Explanation	Example value
Name	The name of the vocabulary	Ingredients
Description	A brief note about the vocabulary	(Leave blank)

The screenshot shows the 'Add vocabulary' form. The title 'Add vocabulary' is at the top. Below it, a breadcrumb navigation shows 'Home > Administration > Structure > Taxonomy'. The form has two fields: 'Name \*' with the value 'Ingredients' and 'Description' with an empty text area. A blue 'Save' button is at the bottom.

## Setting Up Content Structure

---

3. Click *Save*. You will be taken to the Ingredients page, which shows a list of all the terms in this vocabulary.

The screenshot shows the 'Ingredients' page with a navigation bar at the top. Below the navigation, a green success message box displays: '✓ Created new vocabulary *Ingredients*'. A note below the message says: 'You can reorganize the terms in *Ingredients* using their drag-and-drop handles, and group terms under a parent term by sliding them under and to the right of the parent.' At the bottom of the page is a table header with columns: NAME, WEIGHT, and OPERATIONS. A link 'Show row weights' is located above the table. A note at the bottom states: 'No terms available. [Add term](#)'.

NAME	WEIGHT	OPERATIONS
------	--------	------------

4. Click *Add term*. Enter "Butter" in the *Name* field. Click *Save*.

**Add term** ☆

Home » Administration » Structure » Taxonomy » Ingredients

**Name \***  
Butter

**Description**

B I | | | , , | Format ▾ | Source

**Text format** Basic HTML ▾ [About text formats](#) ?

**RELATIONS**

**URL alias**

Specify an alternative path by which this data can be accessed. For example, type "/about" when writing an about page.

**Save**

5. You will receive a confirmation about the term you created. Add more terms. For example, "Eggs" and "Milk".
6. In the *Manage* administrative menu, navigate to *Structure > Content Types* (*admin/structure/types*). Click *Manage fields* for your Recipe content type.
7. Click *Add field*, and enter values from the table below. Click *Save and continue*.

Field name	Explanation	Value
Add a new field	Select the field type	Reference > Taxonomy term
Label	The title to give the field	Ingredients

**Add field ☆**

Home » Administration » Structure » Content types » Recipe » Manage fields

**Add a new field**

Taxonomy term ▾

**Re-use an existing field**

or - Select an existing field - ▾

**Label\***

Ingredients

Machine name: field\_ingredients [Edit]

**Save and continue**

- On the following configuration screen, enter the values from the table below. Click *Save field settings*.

Field name	Explanation	Value
Type of item to reference	The type of entity that is referenced by the field	Taxonomy term
Allowed number of values	The number of values a user can enter	Unlimited

These settings apply to the *Ingredients* field everywhere it is used. These settings impact the way that data is stored in the database and cannot be changed once data has been created.

**Type of item to reference\***

Taxonomy term ▾

**Allowed number of values**

Unlimited ▾

**Save field settings**

- On the following configuration screen, enter the values from the table below. Click *Save settings*.

Field name	Explanation	Value
Help text	Help shown to users creating content	Enter ingredients that site visitors might want to search for
Reference type > Reference method	Select the method used to choose allowed values	Default
Reference type > Vocabulary	Select the vocabulary to choose allowed values from	Ingredients

## Setting Up Content Structure

Field name	Explanation	Value
Reference type > Create referenced entities if they don't already exist	Whether new ingredient terms can be created from the content editing form	Checked

**Label \***  
Ingredients

**Help text**  
Enter ingredients that site visitors might want to search for

Instructions to present to the user below this field on the editing form.  
Allowed HTML tags: <a> <b> <big> <code> <del> <em> <i> <ins> <pre> <q> <small> <span> <strong> <sub> <sup> <tt> <ol> <ul> <li> <p> <br> <img>  
This field supports tokens.

Required field

**► DEFAULT VALUE**

**▼ REFERENCE TYPE**

**Reference method \***  
Default

Create referenced entities if they don't already exist

**Vocabulary \***  
 Ingredients  
 Tags

**Save settings** [Delete](#)

- Click **Save settings**. You will be taken back to the *Manage Fields* page. A message will be displayed saying that the configuration for Ingredients is complete.

**Manage fields** ☆

Home » Administration » Structure » Content types » Recipe

**+ Add field**

LABEL	MACHINE NAME	FIELD TYPE	OPERATIONS
Body	body	Text (formatted, long, with summary)	<a href="#">Edit</a>
Ingredients	field_ingredients	Entity reference	<a href="#">Edit</a>
Main image	field_main_image	Image	<a href="#">Edit</a>

**Saved Ingredients configuration.**

## Videos

Setting up a Taxonomy

[Setting up a Taxonomy](#)

## Attributions

Written and edited by [Bob Snodgrass](#), and [Joy Alphonso](#) at [Red Crackle](#).

## 6.7. Adding a Reference Field

### Goal

Add a reference field so that recipes can be linked to the vendor that has submitted it.

### Prerequisite knowledge

- [Section 6.3, "Adding Basic Fields to a Content Type"](#)
- [Section 6.4, "Concept: Reference Fields"](#)
- [Section 6.1, "Adding a Content Type"](#)

### Site prerequisites

The Recipe and Vendor content types must exist. See [Section 6.1, "Adding a Content Type"](#).

### Steps

1. In the *Manage* administrative menu, navigate to *Structure > Content types (admin/structure/types)*. Then click *Manage fields* in the dropdown button for the Recipe content type. The *Manage fields* page appears.
2. Click *Add field*. The *Add field* page appears. Fill in the fields as shown below. Click *Save and continue*.

Field name	Explanation	Value
Add a new field	Option to specify the field type	Reference > Content
Label	The title you want to give the field	Submitted by

3. The page *Submitted by* appears which lets you set the allowed number of values. Fill in the fields as shown below. Click *Save field settings*.

Field name	Explanation	Value
Type of item to reference	Option to select the type of referenced item	Content

## Setting Up Content Structure

Field name	Explanation	Value
Allowed number of values	Specify the count of values associated with the field	Limited, 1

These settings apply to the *Submitted by* field everywhere it is used. These settings impact the way that data is stored in the database and cannot be changed once data has been created.

**Type of item to reference\***

**Allowed number of values**

**Save field settings**

- The page *Submitted by settings for Recipe* appears which allows you to configure the field. Fill in the fields as shown below. Click *Save settings*.

Field name	Explanation	Value
Label	Title shown for this field on the page	Submitted by
Help text	Brief text aiding the person creating content	Choose the vendor that submitted this recipe
Required field	Whether a value has to be provided or not	Checked
Reference type > Reference method	Option to select reference method	Default
Reference type > Content types	Specify the content type	Vendor
Reference type > Sort by	Sorting field	Title
Reference type > Sort direction	Sorting order	Ascending

## Setting Up Content Structure

Choose the vendor that submitted this recipe

Instructions to present to the user below this field on the editing form.  
Allowed HTML tags: <a> <b> <big> <code> <del> <em> <i> <ins> <pre> <q> <small> <span> <strong> <sub> <sup> <tt> <ol> <ul> <li> <p> <br> <img>  
This field supports tokens.

Required field

**DEFAULT VALUE**  
The default value for this field, used when creating new content.  
**Submitted by**

**REFERENCE TYPE**

**Reference method \***

Create referenced entities if they don't already exist

**Content types \***  
 Basic page  
 Recipe  
 Vendor

**Sort by**

**Sort direction \***

**Save settings** [Delete](#)

5. The Submitted by field has been added to the content type.

**Manage fields** ☆

[Edit](#) [Manage fields](#) [Manage form display](#) [Manage display](#)

Home » Administration » Structure » Content types » Recipe

Saved Submitted by configuration.

[+ Add field](#)

LABEL	MACHINE NAME	FIELD TYPE	OPERATIONS
Body	body	Text (formatted, long, with summary)	<a href="#">Edit</a> <input type="button" value=""/>
Ingredients	field_ingredients	Entity reference	<a href="#">Edit</a> <input type="button" value=""/>
Main image	field_main_image	Image	<a href="#">Edit</a> <input type="button" value=""/>
Submitted by	field_submitted_by	Entity reference	<a href="#">Edit</a> <input type="button" value=""/>

## Videos

### Adding a Reference Field

[Adding a Reference Field](#)

### Attributions

Written and edited by [Boris Doesborg](#), and [Jojo Alphonso](#) at [Red Crackle](#).

## 6.8. Concept: Forms and Widgets

### Prerequisite knowledge

[Section 2.3, "Concept: Content Entities and Fields"](#)

### What are forms and widgets?

The content management system software that your site is running allows administrators to edit content and configure settings online, using various web *forms*. In particular, *content editing forms* are used to edit your site's content, and they are configurable by administrators; settings configuration forms are provided by modules and cannot themselves be configured.

The data in your site's content is stored in one or more fields that are attached to the content type and/or sub-type. When you configure the content editing form for each content sub-type, you can:

- Select a *widget* for each field. A widget defines the method used to enter the data for the field. For example, a taxonomy term can be chosen using an autocomplete field, a select list, or a tags-style field that lets editors add new tags automatically.
- Configure widget settings. For example, you can choose the size of a plain-text entry field.
- Hide one or more fields from the editing form.
- Reorder the fields.

In principle, you can also have multiple content editing forms available for each content sub-type. This feature is rarely used, however; the only exception in common use is for the user profile fields: you can use different forms for user registration and user editing. For example, you might have a limited set of fields shown when users first register on the site, and more fields shown later on when they edit their profiles.

### Related topics

- [Section 6.9, "Changing Content Entry Forms"](#)
- [Section 6.10, "Concept: View Modes and Formatters"](#)

### Attributions

Written by [Jennifer Hodgdon](#).

## 6.9. Changing Content Entry Forms

### Goal

Change the Recipe form to use a different widget to enter terms in the Ingredients field.

### Prerequisite knowledge

- [Section 6.1, "Adding a Content Type"](#)
- [Section 6.3, "Adding Basic Fields to a Content Type"](#)
- [Section 6.5, "Concept: Taxonomy"](#)
- [Section 6.8, "Concept: Forms and Widgets"](#)

### Site prerequisites

The Recipe content type must exist, and it must have an Ingredients taxonomy term reference field. See [Section 6.1, "Adding a Content Type"](#) and [Section 6.6, "Setting Up a Taxonomy"](#).

### Steps

1. In the *Manage* administrative menu, navigate to *Content > Add content > Recipe (node/add/recipe)* to look at the content entry form that is set up by default. Notice how you have to enter ingredients one by one, instead of having a more compact format.
2. In the *Manage* administrative menu, navigate to *Structure > Content types (admin/structure/types)*. Then click *Manage form display* on the dropdown button for the Recipe content type. The *Manage form display* page appears.
3. For the Ingredients field, select *Autocomplete (Tags style)* in the *Widget* column.

## Setting Up Content Structure

FIELD	WIDGET	
Recipe name	Textfield ▾	Textfield size: 60
Authored by	Autocomplete ▾	Autocomplete matching: Contains Textfield size: 60 No placeholder
Authored on	Datetime Timestamp ▾	
Promoted to front page	Single on/off checkbox ▾	Use field label: Yes
Sticky at top of lists	Single on/off checkbox ▾	Use field label: Yes
URL alias	URL alias ▾	
Published	Single on/off checkbox ▾	Use field label: Yes
Body	Text area with a summary ▾	Number of rows: 9 Number of summary rows: 3
Main image	Image ▾	Preview image style: Thumbnail (100×100) Progress indicator: throbber
Ingredients	Autocomplete (Tags style) ▾	Autocomplete matching: Contains Textfield size: 60 No placeholder
Submitted by	Autocomplete ▾	Autocomplete matching: Contains Textfield size: 60 No placeholder

- Click Save.
- In the *Manage* administrative menu, navigate to *Content > Add content > Recipe (node/add/recipe)* to verify the changed behavior of the content form. The Ingredients field is now a single text field that accepts multiple values.

**Create Recipe ☆**

Home » Node » Add content

**Recipe name \***

**Body (Edit summary)**

**Main image \***

Browse... No file selected.

One file only.  
5 MB limit.  
Allowed types: png gif jpg jpeg.  
Images must be larger than **600x600** pixels.

**Ingredients**

Enter ingredients that site visitors might want to search for

**Submitted by \***

Choose the vendor that submitted this recipe

Published

**Last saved:** Not saved yet  
**Author:** admin  
**Revision log message**

Briefly describe the changes you have made.

► URL PATH SETTINGS  
 ▶ AUTHORIZING INFORMATION  
 ▶ PROMOTION OPTIONS

6. Create two Recipe content items (see [Section 5.2, "Creating a Content Item"](#)), such as recipes for "Green Salad" and "Fresh Carrots". Make sure all the fields have values, including images, ingredients, and submitted by (set this to one of the Vendor content items you created in [Section 6.3, "Adding Basic Fields to a Content Type"](#)).

## Expand your understanding

Change the main site Contact form by navigating in the *Manage* administrative menu to *Structure > Contact forms*. For instance, you may want to hide the *Send yourself a copy* or *Language* fields.

## Videos

Changing Content Entry Forms

[Changing Content Entry Forms](#)

## Attributions

Written by [Boris Doesborg](#).

## 6.10. Concept: View Modes and Formatters

### Prerequisite knowledge

[Section 6.1, "Adding a Content Type"](#)

### What is a View mode?

How an entity (such as content, a user or a comment) is displayed, depends on the context in which it is shown. This context is known as a *view mode*. Examples of view modes are:

- a full page of the content with all the field values
- a teaser of the content with a thumbnail image and a *Read more* link
- a full user profile with a zoomable portrait photo
- a user avatar with username and a link to the profile

Every view mode can be configured through the administration pages. To see the configuration options for the view modes of the Recipe content type, navigate in the *Manage* administrative menu to *Structure > Content types (admin/structure/types)* and click *Manage display* from the dropdown button. In each view mode, all fields can be hidden or displayed, and if they are displayed, you can choose and configure the field formatter.

### What is a field formatter?

A field formatter is a setting for displaying the field values. For example, long text fields can be displayed trimmed or full-length, and taxonomy term reference fields can be displayed in plain text or linked to the taxonomy term page. Consult the *Manage display* page to see the field formatters for the fields of the Recipe content type.

### Related topics

- [Section 6.1, "Adding a Content Type"](#)
- [Section 6.11, "Changing Content Display"](#)

### Additional resources

[Drupal.org community documentation page "View modes"](#)

### Attributions

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## 6.11. Changing Content Display

### Goal

Make the content items more readable, accessible, and visibly attractive by reordering the fields, hiding labels, and tuning the output of the fields.

### Prerequisite knowledge

- [Section 2.3, "Concept: Content Entities and Fields"](#)
- [Section 6.10, "Concept: View Modes and Formatters"](#)

### Site prerequisites

The Vendor content type must exist, it must have Main Image and Vendor URL fields, and your site must have at least one Vendor content item. See [Section 6.1, "Adding a Content Type"](#), [Section 6.3, "Adding Basic Fields to a Content Type"](#), and [Section 5.2, "Creating a Content Item"](#).

### Steps

1. Find and view a Vendor content item you created in [Section 6.3, "Adding Basic Fields to a Content Type"](#). Notice that there are several things that could be done to improve how the page looks:
  - The Main Image and Vendor URL fields should not have labels.
  - The order of the fields should be changed so that the image comes first.
  - The image should be smaller.
2. To fix the first two problems, and update some additional settings, in the *Manage* administrative menu, navigate to *Structure > Content types* (`admin/structure/types`). Then click *Manage display* in the dropdown button for the Vendor content type.

The screenshot shows the 'Content types' administration page. At the top, there's a header with 'Content types' and a star icon. Below the header, a breadcrumb navigation shows 'Home > Administration > Structure'. A blue button labeled '+ Add content type' is visible. The main area displays a table of content types:

NAME	DESCRIPTION	OPERATIONS
Basic page	Use basic pages for your static content, such as an 'About us' page.	<button>Manage fields</button>
Recipe	Recipe submitted by a vendor	<button>Manage fields</button>
Vendor	Information about a vendor	<button>Manage fields</button> <button>Manage form display</button> <button>Manage display</button> <button>Edit</button> <button>Delete</button>

3. Under the *Label* column, select *Hidden* for Main image. Do the same for Vendor URL.

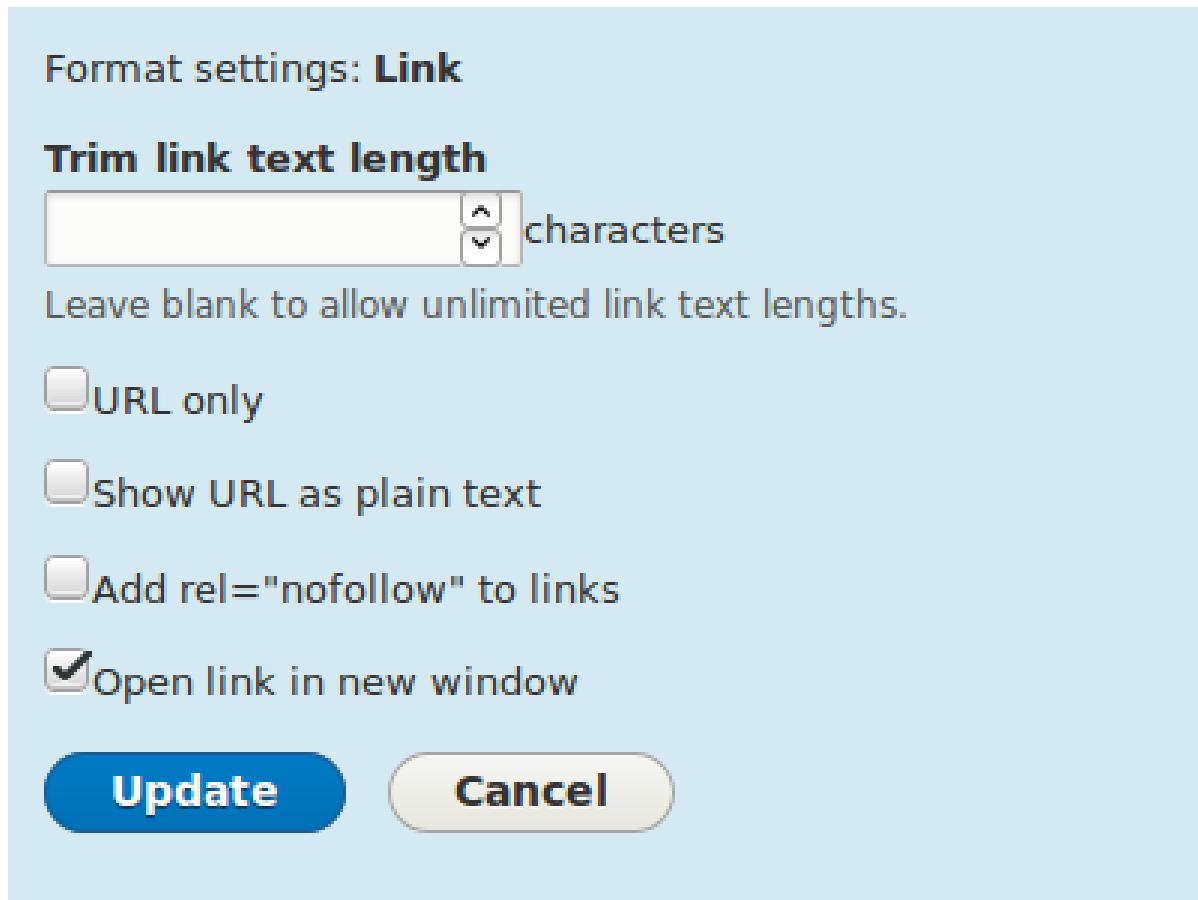
## Setting Up Content Structure

---

Show row weights			
FIELD	LABEL	FORMAT	
⊕ Links		Visible ▾	
⊕ Body	- Hidden - ▾	Default ▾	
⊕ Vendor URL	- Hidden - ▾	Link ▾	Link text trimmed to 80 characters 
⊕ Main image	- Hidden - ▾	Image ▾	Original image 
<b>Disabled</b>			
<i>No field is hidden.</i>			

4. Click the gear wheel for the Vendor URL field, to open the configuration options.
5. Fill in the fields as shown below.

Field name	Explanation	Example value
Trim link text length	Maximum displayed length for link text	Blank (no trimming)
Open link in new window	Whether links should open in a new window or the same window	Checked



6. Click *Update*.
7. Drag the cross arrows next to the field items to reorder as Main image, *Body*, Vendor URL, and *Links*.

*You have unsaved changes.					
FIELD	LABEL	FORMAT			
>Main image	- Hidden -	Image	Original image		⊕
Body	- Hidden -	Default			⊕
Vendor URL	- Hidden -	Link	Link text not trimmed Open link in new window		⊕
Links		Visible			
<b>Disabled</b>					
No field is hidden.					

8. Click *Save*.
9. Find the Vendor content item from step 1 again, and verify that the updates have been made.

10. Repeat similar steps to manage the display of the Recipe content type fields.

## Expand your understanding

- Make the main image smaller. See [Section 6.13, "Setting Up an Image Style"](#).
- If you do not see the effect of these changes in your site, you might need to clear the cache. See [Section 12.2, "Clearing the Cache"](#).

## Related concepts

[Section 6.12, "Concept: Image Styles"](#)

## Videos

Changing Content Display

[Changing Content Display](#)

## Additional resources

- [Drupal.org community documentation page "Specify how fields are displayed"](#)
- [Drupal.org community documentation page "Rearrange the order of fields"](#)
- [Drupal.org community documentation page "View modes"](#)

## Attributions

Written by [Ann Greazel](#) and [Boris Doesborg](#).

# 6.12. Concept: Image Styles

## Prerequisite knowledge

[Section 6.3, "Adding Basic Fields to a Content Type"](#)

## What are image styles?

Image styles allow you to upload a single image but display it in several ways; each display variation, or *image style*, is the result of applying one or more *effects* to the original image.

As an example, you might upload a high-resolution image with a 4:3 aspect ratio, and display it scaled down, square cropped, or black-and-white (or any combination of these effects). The core software provides a way to do this efficiently:

1. Configure an image style with the desired effects on the *Image styles* page ([admin/config/media/image-styles](#)).

2. The effects will be applied the first time a particular image is requested in that style.
3. The resulting image is saved.
4. The next time that same style is requested, the saved image is retrieved without the need to recalculate the effects.

The core software provides several effects that you can use to define styles; others may be provided by contributed modules.

Visit the *Image styles* page via the *Manage* administrative menu, navigate to *Configuration > Media > Image styles* (`admin/config/media/image-styles`) to see the image styles that are defined by default.

## Related topics

- [Section 6.13, "Setting Up an Image Style"](#)
- [Section 6.14, "Concept: Responsive Image Styles"](#)
- [Section 6.3, "Adding Basic Fields to a Content Type"](#)

## Additional resources

[Drupal.org community documentation page "Working with images in Drupal 7 and 8"](#)

### Attributions

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# 6.13. Setting Up an Image Style

## Goal

Add an image style and use it to display images on Vendor pages.

## Prerequisite knowledge

- [Section 6.3, "Adding Basic Fields to a Content Type"](#)
- [Section 6.11, "Changing Content Display"](#)
- [Section 6.12, "Concept: Image Styles"](#)

## Site prerequisites

- Vendor and Recipe content types must exist. See [Section 6.1, "Adding a Content Type"](#).

- Main image fields must exist for both content types. See [Section 6.3, "Adding Basic Fields to a Content Type"](#).
- Content items must exist for both content types. See [Section 6.1, "Adding a Content Type"](#), [Section 6.3, "Adding Basic Fields to a Content Type"](#), and [Section 5.2, "Creating a Content Item"](#).

## Steps

1. In the *Manage* administrative menu, navigate to *Configuration > Media > Image styles* (`admin/config/media/image-styles`).
2. Click *Add image style*.
3. Enter the name *Extra medium (300x200)*
4. Click *Create new style*. The page *Edit style Extra medium (300x200)* appears.
5. In the *Effect* table, select *Scale and crop*. Click *Add*.
6. Fill in the fields as shown below.

Field name	Value
Width	300
Height	200

7. Click *Add effect*. The image style is saved with the chosen effects.

The screenshot shows the 'Edit style Extra medium (300x200)' page. At the top, there is a success message: 'The image effect was successfully applied.' Below this, the 'Preview' section shows two images: 'original (view actual size)' and 'Extra medium (300x200) (view actual size)'. The original image has dimensions of 800px by 600px. The scaled image has dimensions of 300px by 200px. The 'Image style name\*' field contains 'Extra medium (300x200)'. The 'Machine name' is listed as 'extra\_medium\_300x200 [Edit]'. The 'EFFECT' table shows one row: 'Scale and crop 300x200' with an 'Edit' button. There is also a 'Select a new effect' dropdown and an 'Add' button. At the bottom, there are 'Update style' and 'Delete' buttons.

8. In the *Manage* administrative menu, navigate to *Structure > Content types* (*admin/structure/types*).
9. Click *Manage display* in the *Operations* dropdown for the Vendor content type. The *Manage display* page (*admin/structure/types/manage/vendor/display*) appears.
10. Ensure that the secondary tab *Default* is selected.
11. Click the gear wheel for the *Main image* field, to open the configuration options.
12. Fill in the fields as shown below.

Field name	Explanation	Example value
Image style	Which image style to use	Extra medium (300x200)
Link image to	Page to visit if image is clicked	Nothing

Format settings: **Image**

**Image style**  
Extra medium (300x200) ▾

[Configure Image Styles](#)

**Link image to**  
Nothing ▾

**Update**   **Cancel**

13. Click *Update*.
14. Click *Save*. The new image style will be used while displaying Vendor content.
15. Open a Vendor content item and verify that it now shows up with the scaled-down image. See [Section 5.3, "Editing a Content Item"](#) for information on how to locate an existing content item.
16. Repeat steps 8-15 for the Recipe content type.

## Related concepts

- [Section 6.3, "Adding Basic Fields to a Content Type"](#)
- [Section 6.12, "Concept: Image Styles"](#)
- [Section 6.14, "Concept: Responsive Image Styles"](#)

## Videos

Setting up an Image Style

[Setting up an Image Style](#)

## Additional resources

[Drupal.org community documentation page "Working with images in Drupal 7 and 8"](#)

### Attributions

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## 6.14. Concept: Responsive Image Styles

### Prerequisite knowledge

- [Section 1.3, "Concept: Themes"](#)
- [Section 6.11, "Changing Content Display"](#)
- [Section 6.12, "Concept: Image Styles"](#)

### What are responsive image styles?

The core Responsive Image module provides responsive image styles. This allows you to have images in your website that are specifically sized for different screen sizes. This is useful, for example, to make your site load faster on mobile devices because image sizes are optimized for smaller screens.

A responsive image style is a mapping between images styles and breakpoints. Breakpoints are the points where a responsive design needs to change in order to respond to different screen sizes. Responsive image styles can only be used if the breakpoints are defined in the theme.

When a responsive image style is defined, it can be used in the display settings for Image fields. This allows the site to display responsive images using the HTML5 picture tag.

### Related topics

[Section 6.3, "Adding Basic Fields to a Content Type"](#)

## Additional resources

- [Drupal.org community documentation page "Responsive web design"](#)
- [Drupal.org community documentation page "Responsive images in Drupal 8"](#)
- [Drupal.org community documentation page "Working with breakpoints in Drupal 8"](#)

### Attributions

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## 6.15. Concept: Text Formats and Editors

### What are text formats and filters?

*Text formats* change how HTML tags and other text are processed and displayed on your site. Text formats are composed of a series of *filters*, each of which transforms text. When users create content, a text format is associated with the content, and the full, original text is stored in the database. The content is then passed through the filters in the text format before it becomes output on the site.

The core Filter module provides text format functionality, and the core Standard installation profile sets up *Basic HTML*, *Restricted HTML*, and *Full HTML* text formats. Each text format has an associated permission, so that you can allow only trusted users to use permissive text formats. This restricts untrusted users to text formats like *Basic HTML*, which filters out dangerous HTML tags.

### What are the editors associated with text formats?

Each text format can be associated with an editor, such as a visual WYSIWYG (What You See Is What You Get) HTML editor. The core Text Editor module provides the ability to associate editors with text formats, and to configure the editors (such as adding and removing buttons from their toolbars). The core CKEditor module provides the industry-standard editor known as CKEditor, so that it can be used to edit HTML content on your site.

### What is cross-site scripting?

Cross-site scripting (XSS) is a security vulnerability typically found in websites. In a site that is not well protected, malicious users can enter script into web pages that are viewed by other users (for example, in a comment or in the body of a page). A cross-site scripting vulnerability may be used by attackers to login as another user. It is important to configure the text formats of your website to prevent such abuse.

### Related topics

[Section 13.3, "Concept: Security and Regular Updates"](#)

### Additional resources

- [Drupal.org community documentation page "Filter module: text formats that filter user input"](#)
- [Wikipedia page "Cross-site scripting"](#)

### Attributions

Written and edited by [Boris Doesborg](#) and [Jennifer Hodgdon](#).

## 6.16. Configuring Text Formats and Editors

### Goal

Add a horizontal rule tag to the *Basic HTML* text format, and a corresponding button to its editor configuration.

### Prerequisite knowledge

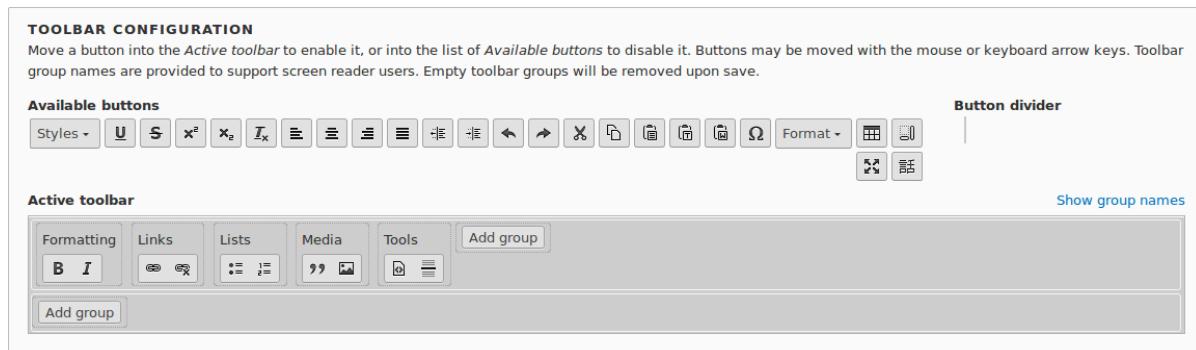
[Section 6.15, "Concept: Text Formats and Editors"](#)

### Site prerequisites

- The core Filter, Editor, and CKEditor modules must be installed. They are installed on your site when you install with the core Standard installation profile.
- The *Basic HTML* text format must exist. This is created on your site when you install with the core Standard installation profile.

### Steps

1. In the *Manage* administrative menu, navigate to *Configuration > Content authoring > Text formats and editors* (`admin/config/content/formats`). The *Text formats and editors* page appears. Note that the names of the text formats that came with your installation profile are shown in English on this page; see [Section 2.7, "Concept: User Interface, Configuration, and Content translation"](#) for an explanation.
2. Click *Configure* for the *Basic HTML* text format. The *Basic HTML* page appears.
3. Note that *CKEditor* is selected in the *Text editor* field. This allows you to configure the editor's toolbar.
4. Drag the *horizontal rule* button from *Available buttons* to *Tools* under *Active toolbar*. You may need to click the *Show group names* link to see the *Tools* group name.



5. Note that you can change the *Filter processing order*.
6. Under *Filter settings > Limit allowed HTML tags and correct faulty HTML*, in the field *Allowed HTML tags*, add `<hr>` to what is already present.

**Filter settings**

**Limit allowed HTML tags and correct faulty HTML**  
Enabled

**Allowed HTML tags**

```
<hr> <a hreflang href> <em> <strong> <cite> <blockquote cite>
<code> <ul type> <ol start type> <li> <dl> <dt> <dd> <h2 id> <h3
id> <h4 id> <h5 id> <h6 id> <p> <br> <span> <img data-caption
data-align data-entity-uuid data-entity-type alt src width height>
```

A list of HTML tags that can be used. By default only the *lang* and *dir* attributes are allowed for all HTML tags. Each HTML tag may have attributes which are treated as allowed attribute names for that HTML tag. Each attribute may allow all values, or only allow specific values. Attribute names or values may be written as a prefix and wildcard like *jump-\**. JavaScript event attributes, JavaScript URLs, and CSS are always stripped.

Display basic HTML help in long filter tips  
 Add rel="nofollow" to all links

7. Click *Save configuration*. You will be taken back to the *Text formats and editors* page. A message will be displayed saying that the text format has been updated.

 The text format *Basic HTML* has been updated.

## Expand your understanding

If you do not see the effect of these changes in your site, you might need to clear the cache. See [Section 12.2, "Clearing the Cache"](#).

## Videos

Configuring Text Formats and Editors

[Configuring Text Formats and Editors](#)

## Attributions

Written by [Boris Doesborg](#).

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# Chapter 7. Managing User Accounts

## 7.1. Concept: Users, Roles, and Permissions

### What are Users?

Anyone who visits your website is a *user*, including you. There are three groups of users:

- Users who are not logged in, or *anonymous users*
- Users who are logged in, or *authenticated users*
- The administrative user account that was automatically created when you installed your site, or User 1. See [Section 7.2, “Concept: The User 1 Account”](#).

### What are Permissions?

The ability to do actions on your site (including viewing content, editing content, and changing configuration) is governed by *permissions*. Each permission has a name (such as *View published content*) and covers one action or a small subset of actions. A user must be granted a permission in order to do the corresponding action on the site; permissions are defined by the modules that provide the actions.

### What are Roles?

Rather than assigning individual permissions directly to each user, permissions are grouped into *roles*. You can define one or more roles on your site, and then grant permissions to each role. The permissions granted to authenticated and anonymous users are contained in the *Authenticated user* and *Anonymous user* roles, and depending on the installation profile you used when you installed your site, there may also be an *Administrator* role that is automatically assigned all permissions on your site.

Each user account on your site is automatically given the *Authenticated user* role, and may optionally be assigned one or more additional roles. When you assign a role to a user account, the user will have all the permissions of the role when logged in.

It is a good practice to make several roles on your site. In the farmers market site example, you might want the following roles:

- A Vendor role that allows vendors to edit their own vendor listing page
- A Content editor role for editing the general farmers market pages
- A User manager role for managing the vendor accounts

- The *Administrator* role that was installed with your site, for expert users to manage the site configuration

## Related topics

- [Section 7.3, "Creating a Role"](#)
- [Section 7.5, "Assigning Permissions to a Role"](#)
- [Section 7.6, "Changing a User's Roles"](#)
- [Section 7.4, "Creating a User Account"](#)
- [Section 7.2, "Concept: The User 1 Account"](#)
- [Section 7.7, "Assigning Authors to Content"](#)

## Additional resources

- [Drupal.org community documentation page "Users, roles and permissions"](#)
- [Drupal.org community documentation page "Managing Users"](#)
- [Drupal.org community documentation page "User Roles"](#)

## Attributions

Adapted by [Mark LaCroix](#), [Boris Doesborg](#), and [Jennifer Hodgdon](#) from "[User Roles](#)", copyright 2000-2017 by the individual contributors to the [Drupal Community Documentation](#).

## 7.2. Concept: The User 1 Account

### Prerequisite knowledge

[Section 7.1, "Concept: Users, Roles, and Permissions"](#)

### What is the user 1 account?

During the installation of your site, you created the first user account. Each user account internally has a numeric user ID, and since the ID of this user is one, it is commonly referred to as the *user 1* account. This user account is special, because independent of what roles it is assigned, someone logged in as user 1 has permission to do all actions on the site, including viewing and editing all content, editing any user account, changing site configuration, installing and uninstalling modules, and running the update script.

Because of this level of permission, some people refer to this account as the *root user*, similar to the "root" user account that has full administrative permissions in Linux and other operating systems.

It is usually better to make separate accounts for each administrative user, giving them the *Administrator* role, rather than having all administrative users log in using the user 1 account. There are several reasons for this:

- Some actions and updates on the site are logged, and if everyone uses the same account, it is difficult to know who did them if you have questions.
- The *Administrator* role permissions can be modified to be safer than the full permissions of the user 1 account, so that people do not inadvertently change site features that shouldn't be changed.
- People's responsibilities on a site may change over time. With ordinary user accounts, this can be mirrored in permissions by assigning or unassigning roles to their user accounts. If they are all using the user 1 account, this is more difficult.
- On some sites, the author of content or comments is displayed or tracked, and if everyone uses the same account to create content, it is difficult to know who created the content.

It is not possible to delete the user 1 account from the administrative user interface. It would be possible to do with a database query, but it could cause problems in your site and is not advisable.

## Additional resources

[Drupal.org community documentation page "Accounts and roles"](#)

### Attributions

Written and edited by [Mark LaCroix](#) and [Jennifer Hodgdon](#).

## 7.3. Creating a Role

### Goal

Create a Vendor role to allow some - but not all - users to perform specific tasks.

### Prerequisite knowledge

[Section 7.1, "Concept: Users, Roles, and Permissions"](#)

### Steps

1. In the *Manage* administrative menu, navigate to *People > Roles* (`admin/people/roles`).
2. You will find default roles *Anonymous user*, *Authenticated user*, and *Administrator* already present.

The screenshot shows the 'Roles' page under 'Administration > People'. At the top, there are tabs for 'List', 'Permissions', and 'Roles', with 'Roles' being the active tab. Below the tabs, a breadcrumb navigation shows 'Home > Administration > People'. A descriptive text explains that roles define groups of users with privileges, ordered from least to most permissive. It mentions the 'Anonymous user', 'Authenticated user', and 'Administrator' roles. A blue '+ Add role' button is at the top left. On the right, a 'Show row weights' link is visible. The main content is a table with columns 'NAME' and 'OPERATIONS'. It lists the three default roles with 'Edit' buttons. A 'Save' button is located at the bottom left of the table.

NAME	OPERATIONS
Anonymous user	Edit
Authenticated user	Edit
Administrator	Edit

3. Click *Add Role* to add a custom role.
4. Type Vendor in the *Role name* field. Click *Save*.

The screenshot shows the 'Add role' form under 'Administration > People > Roles'. The title is 'Add role ★'. The 'Role name\*' field contains 'Vendor', with a note below it stating 'Machine name: vendor [Edit]'. A descriptive text explains that this is the name for the role, with examples like 'Moderator', 'Editorial board', or 'Site architect'. A blue 'Save' button is at the bottom left. A green success message box at the bottom right says '✓ Role Vendor has been added.'

Role name\*

Vendor Machine name: vendor [Edit]

The name for this role. Example: "Moderator", "Editorial board", "Site architect".

Save

✓ Role Vendor has been added.

## Expand your understanding

- [Section 7.5, "Assigning Permissions to a Role"](#)
- [Section 7.6, "Changing a User's Roles"](#)

## Videos

Creating a Role

[Creating a Role](#)

## Additional resources

[Drupal.org community documentation page "User Roles"](#)

### Attributions

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## 7.4. Creating a User Account

### Goal

Create Vendor user accounts for Sweet Honey and Happy Farm vendors.

### Prerequisite knowledge

- [Section 7.1, "Concept: Users, Roles, and Permissions"](#)
- [Section 7.2, "Concept: The User 1 Account"](#)
- [Section 7.3, "Creating a Role"](#)

### Site prerequisites

The Vendor role must exist on your site. See [Section 7.3, "Creating a Role"](#).

### Steps

1. In the *Manage* administrative menu, navigate to *People* (`admin/people`).
2. Click *Add user*.

### Add user ★

Home » Administration » People

This web page allows administrators to register new users. Users' email addresses and usernames must be unique.

**Email address**  
  
A valid email address. All emails from the system will be sent to this address. The email address is not made public and will only be used if you wish to receive a new password or wish to receive certain news or notifications by email.

**Username \***  
  
Several special characters are allowed, including space, period (.), hyphen (-), apostrophe ('), underscore (\_), and the @ sign.

**Password \***  
  
  
Password strength:

**Confirm password \***

**Passwords match:**  
Provide a password for the new account in both fields.

**Status**  
 Blocked  
 Active

**Roles**  
 Authenticated user  
 Administrator  
 Vendor  
 Notify user of new account

3. Fill in the form fields. See the table below.

Field name	Explanation	Example value
Email address	A valid email address for the vendor. All emails from the system will be sent to this address. The email address is not made public.	<a href="mailto:honey@example.com">honey@example.com</a>
Username	A username for the vendor that they will use to sign in or author content items. Spaces are allowed; punctuation is not allowed except for periods,	Sweet Honey

Field name	Explanation	Example value
	hyphens, apostrophes, and underscores.	
Password	A password the vendor will use to sign in to the site. You can see how safe the password is on the <i>Password strength</i> gauge. You also get tips on how to make it safer.	(Make a secure password)
Confirm password	Type the same password to avoid any typing mistakes.	(Repeat password)
Status	Set the status of the user account. <i>Blocked</i> users will not be able to sign in.	Active
Roles	Set the role of the user account.	Vendor
Notify user of new account	Whether or not to send a notification to the vendor's email address.	Checked
Picture	Click <i>Browse</i> and select a picture to upload. Pay attention to size restrictions.	Photo of the vendor
Contact settings	Enable or disable the display of a contact form for the account.	Checked

4. Click *Create new account*. You will get a notification about the user account creation.

 A welcome message with further instructions has been emailed to the new user *Sweet Honey*.

5. Create a second Vendor account for Happy Farm by following the steps above.

## Expand your understanding

Create a user account for yourself.

## Videos

Creating a User Account

[Creating a User Account](#)

## Attributions

Written by [Diána Lakatos](#) at [Pronovix](#).

## 7.5. Assigning Permissions to a Role

### Goal

Change the permissions for the Vendor role so that users can create, edit, and delete Recipe and Vendor content, format the content, and contact each other.

### Prerequisite knowledge

- [Section 7.1, “Concept: Users, Roles, and Permissions”](#)

### Site prerequisites

The Vendor role must exist on your site. See [Section 7.3, “Creating a Role”](#).

### Steps

1. In the *Manage* administrative menu, navigate to *People > Roles* (`admin/people/roles`). The *Roles* page appears.
2. Click *Edit permissions* in the dropdown for the Vendor role. The *Edit role* page appears where you can see all the available actions for the website such as, for example, *Post comments* or *Administer blocks*. The available permissions depend on the modules that are installed in the site. Note: Some permissions may have security implications. Be cautious while assigning permissions to roles.
3. Check the boxes for the following permissions, listed by module:

Module	Permission
Contact	Use users' personal contact forms
Filter	Use the Restricted HTML text format
Node	Recipe: Create new content
Node	Recipe: Edit own content
Node	Recipe: Delete own content
Node	Vendor: Edit own content
Quick Edit	Access in-place editing

PERMISSION	VENDOR
<i>Basic page:</i> Revert revisions To revert a revision, you also need permission to edit the content item.	<input type="checkbox"/>
<i>Basic page:</i> View revisions To view a revision, you also need permission to view the content item.	<input type="checkbox"/>
<i>Recipe:</i> Create new content	<input checked="" type="checkbox"/>
<i>Recipe:</i> Delete any content	<input type="checkbox"/>
<i>Recipe:</i> Delete own content	<input checked="" type="checkbox"/>
<i>Recipe:</i> Delete revisions To delete a revision, you also need permission to delete the content item.	<input type="checkbox"/>
<i>Recipe:</i> Edit any content	<input type="checkbox"/>
<i>Recipe:</i> Edit own content	<input checked="" type="checkbox"/>
<i>Recipe:</i> Revert revisions To revert a revision, you also need permission to edit the content item.	<input type="checkbox"/>
<i>Recipe:</i> View revisions To view a revision, you also need permission to view the content item.	<input type="checkbox"/>
<i>Vendor:</i> Create new content	<input type="checkbox"/>
<i>Vendor:</i> Delete any content	<input type="checkbox"/>
<i>Vendor:</i> Delete own content	<input type="checkbox"/>
<i>Vendor:</i> Delete revisions To delete a revision, you also need permission to delete the content item.	<input type="checkbox"/>
<i>Vendor:</i> Edit any content	<input type="checkbox"/>
<i>Vendor:</i> Edit own content	<input checked="" type="checkbox"/>

- Click *Save permissions*. You will get a message saying your changes have been saved.

 The changes have been saved.

## Expand your understanding

- Log in as one of the new users you created in [Section 7.4, "Creating a User Account"](#). Verify whether you have the correct permissions.

- [Section 7.6, "Changing a User's Roles"](#)

## Related concepts

[Section 7.2, "Concept: The User 1 Account"](#)

## Videos

Assigning Permissions to a Role

[Assigning Permissions to a Role](#)

## Additional resources

[Drupal.org community documentation page "Managing Users"](#)

## Attributions

Adapted and edited by [Boris Doesborg](#), [Brian Emery](#), and [Jojo Alphonso](#) at [Red Crackle](#), from ["User Roles"](#), copyright 2000-2017 by the individual contributors to the [Drupal Community Documentation](#).

# 7.6. Changing a User's Roles

## Goal

Change or add roles to a given user, either by editing a single-user or by applying a bulk operation.

## Prerequisite knowledge

[Section 7.1, "Concept: Users, Roles, and Permissions"](#)

## Site prerequisites

The user account that you want to update, and the role you want it to have, must already exist. See [Section 7.4, "Creating a User Account"](#), [Section 7.3, "Creating a Role"](#), and [Section 7.5, "Assigning Permissions to a Role"](#).

## Steps

### Updating the roles using single-user editing method

1. In the *Manage* administrative menu, navigate to *People (admin/people)*.

## Managing User Accounts

2. Locate the user 1 account (named "admin") to assign it the *Administrator* role. If it is not immediately visible, use the *Name or email contains* filter, or other filters, to narrow down the list.
3. Click *Edit* to update the user account.

The screenshot shows the 'People' page with a star icon. At the top, there are tabs for 'List', 'Permissions', and 'Roles'. Below the tabs, a breadcrumb navigation shows 'Home > Administration'. A blue button '+ Add user' is visible. There are search and filter fields for 'Name or email contains', 'Status', 'Role', and 'Permission', along with a 'Filter' button. An 'Action' dropdown menu is open, showing 'Add the Administrator role to the selected user(s)'. A 'Apply to selected items' button is present. The main table lists three users:

USERNAME	STATUS	ROLES	MEMBER FOR	LAST ACCESS	OPERATIONS
Happy Farm	Active	• Vendor	11 seconds	never	<button>Edit</button>
Sweet Honey	Active	• Vendor	16 seconds	never	<button>Edit</button>
admin	Active	• Administrator	5 days	1 minute 41 seconds ago	<button>Edit</button>

At the bottom left is another 'Apply to selected items' button.

4. On the *Edit* page, scroll down to *Roles* section. Check the *Administrator* role for the user account.

### Roles

[Authenticated user](#)

[Administrator](#)

[Vendor](#)

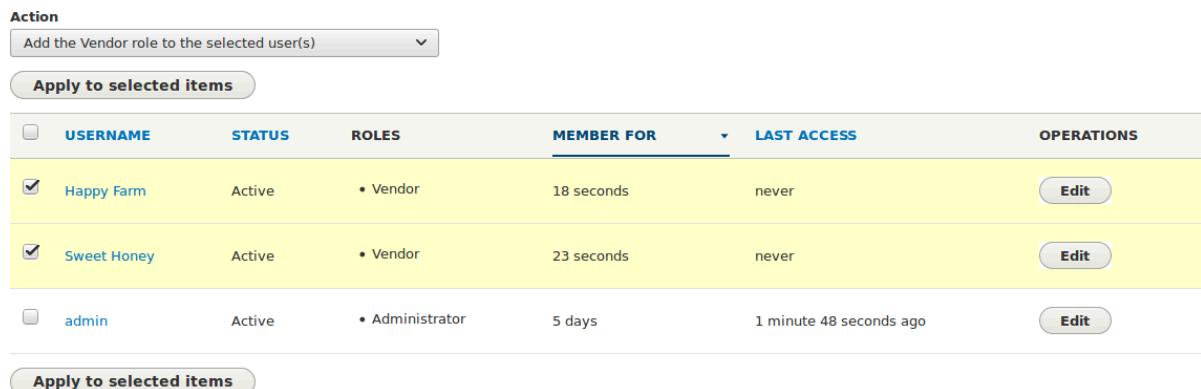
5. Click *Save* to update the user account. You should be returned to the *People* page and see a message saying that the changes have been saved.

The changes have been saved.

## Updating the roles using bulk editing method

1. If the users Happy Farm and Sweet Honey did not already have the Vendor role, here is how you would add it. In the *Manage* administrative menu, navigate to *People (admin/people)*.

2. Locate Vendor user accounts *Sweet Honey* and *Happy Farm* and check them. If they are not immediately visible, use the *Name or email contains* filter, or other filters, to narrow down the list.
3. Select *Add the Vendor role to the selected user(s)* from the *Action* select list.



<input type="checkbox"/>	USERNAME	STATUS	ROLES	MEMBER FOR	LAST ACCESS	OPERATIONS
<input checked="" type="checkbox"/>	Happy Farm	Active	• Vendor	18 seconds	never	<button>Edit</button>
<input checked="" type="checkbox"/>	Sweet Honey	Active	• Vendor	23 seconds	never	<button>Edit</button>
<input type="checkbox"/>	admin	Active	• Administrator	5 days	1 minute 48 seconds ago	<button>Edit</button>

4. Click *Apply to selected items*. You should see a message indicating that the desired changes were made.

 *Add the Vendor role to the selected user(s) was applied to 2 items.*

## Videos

Changing a User's Roles

[Changing a User's Roles](#)

### Attributions

Written by [Chris Dart](#) and [Jennifer Hodgdon](#)

## 7.7. Assigning Authors to Content

### Goal

Assign Vendor content items Happy Farm and Sweet Honey to the corresponding Vendor user accounts, so they can edit their own Vendor profiles on the site.

### Prerequisite knowledge

- [Section 7.1, "Concept: Users, Roles, and Permissions"](#)

## Site prerequisites

- The Vendor content type must exist, and your site must have at least two Vendor content items. See [Section 6.1, "Adding a Content Type"](#), [Section 6.3, "Adding Basic Fields to a Content Type"](#), and [Section 5.2, "Creating a Content Item"](#).
- User accounts for at least two vendors must exist. See [Section 7.4, "Creating a User Account"](#).

## Steps

1. In the *Manage* administrative menu, navigate to *Content* (*admin/content*).
2. Find Vendor content item Happy Farm in the list. If it is not immediately visible, you can filter the list by *Published status*, *Content type* (Vendor), *Title*, or *Language*. Click *Edit* for the Vendor content item you would like to assign an author to.
3. Under *Authoring information*, start typing the Vendor's user name Happy Farm in the *Authored by* field. The field lists matching user names. Select the Vendor's user name from the list.

**Published**

**Last saved:** 10/18/2017 - 13:45

**Author:** Happy Farm

Create new revision

**Revision log message**

Briefly describe the changes you have made.

**► URL PATH SETTINGS**

**▼ AUTHORIZING INFORMATION**

**Authored by**

Happy Farm (3)

The username of the content author.

**Authored on**

2017-10-17

18:30:05

Format: 2017-10-18 13:45:16. Leave blank to use the time of form submission.

**► PROMOTION OPTIONS**

4. Click *Save*.
5. You will get a notification that the Vendor content item has been updated.

 Vendor Happy Farm has been updated.

6. Follow these steps again to assign Vendor content item Sweet Honey to the Vendor user account Sweet Honey.

## Videos

Assigning Authors to Content

[Assigning Authors to Content](#)

## Attributions

Written by [Diána Lakatos](#) at [Pronovix](#).

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# Chapter 8. Blocks

## 8.1. Concept: Blocks

### What is a block?

*Blocks* are individual pieces of your site's web page layout. They are placed inside the regions (see [Section 2.1, "Concept: Regions in a Theme"](#)) of your theme, and can be created, removed, and rearranged in the *Block layout* (`admin/structure/block`) administration page. Examples of blocks include the *Who's online* listing, the main navigation menu, and the breadcrumb trail. The main page content is also a block.

Some modules make new blocks available for placement on your site. For example, when the core Search module is installed and configured, it provides a block that contains a search form. You may also create and place your own custom blocks.

Each block has its own configuration settings, which allow you to select which pages of your site will display the block. It is even possible to place multiple copies of a block, each with its own separate configuration and visibility rules.

### Related topics

- [Section 2.1, "Concept: Regions in a Theme"](#)
- [Section 8.2, "Creating A Custom Block"](#)
- [Section 8.3, "Placing a Block in a Region"](#)

### Attributions

Adapted by [Les Lim](#) from ["Working with blocks \(content in regions\)"](#) copyright 2000-2017 by the individual contributors to the [Drupal Community Documentation](#).

## 8.2. Creating A Custom Block

### Goal

Create a block showing the hours and location of the farmers market.

### Prerequisite knowledge

- [Section 8.1, "Concept: Blocks"](#)
- [Section 2.1, "Concept: Regions in a Theme"](#)

## Steps

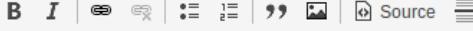
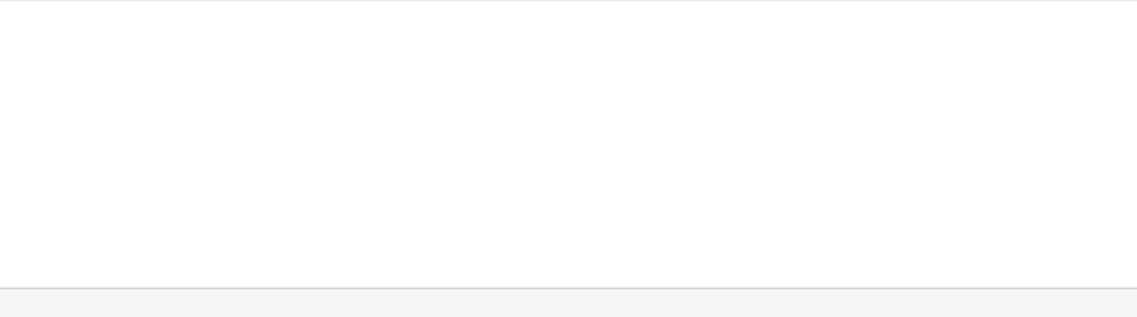
1. In the *Manage* administrative menu, navigate to *Structure > Block layout > Custom block library* (`admin/structure/block/block-content`).
2. Click *Add custom block*. The *Add custom block* page appears.
3. Fill in the fields as shown below.

Field name	Explanation	Example value
Block description	Name of the block shown to administrators	Hours and location block
Body	Content of the block when it is displayed	Open: Sundays, 9 AM to 2 PM, April to September >Location: Parking lot of Trust Bank, 1st & Union, downtown Anytown.

**Add custom block** ★

[Home](#)

**Block description \***  
A brief description of your block.

**Body**  
  


**Text format**  [About text formats](#) ?

**Revision information**  
 No revision

**Revision log message**  
  
 The log entry explaining the changes in this revision.

**Save**

4. Click *Save*. A message appears indicating the block has been saved.

## Expand your understanding

- Edit the content of your custom block. In the *Manage* administrative menu, navigate to *Structure > Block layout > Custom block library* ([admin/structure/block/block-content](#)). Find your block in the list and click *Edit* to make changes.
- Place the block you created in the sidebar. See [Section 8.3, "Placing a Block in a Region"](#) for details.

## Videos

Creating a Custom Block

[Creating a Custom Block](#)

## Additional resources

[Drupal.org community documentation page "Working with blocks \(content in regions\)"](#)

### Attributions

Adapted by [Jacob Redding](#) and [Boris Doesborg](#) from [Working with blocks \(content in regions\)](#), copyright 2000-2017 by the individual contributors to the [Drupal Community Documentation](#).

## 8.3. Placing a Block in a Region

### Goal

Place the Opening hours and location block in the website's sidebar.

### Prerequisite knowledge

[Section 8.1, "Concept: Blocks"](#)

### Site prerequisites

- The core Bartik theme must be installed and set as default. See [Section 4.6, "Configuring the Theme"](#).
- The Opening hours and location block must exist. See [Section 8.2, "Creating A Custom Block"](#).

### Steps

1. In the *Manage* administrative menu, navigate to *Structure > Block layout* ([admin/structure/block](#)). The *Block layout* page appears, listing the theme's regions.

2. Ensure that in the secondary tab the core Bartik theme is selected. Block placement is defined per theme.
3. Locate the region *Sidebar second* in the list and click *Place block* next to it. The *Place block* window appears, listing all the blocks.
4. Locate the block *Opening hours and location* and click *Place block* next to it. The *Configure block* window appears. Fill in the fields as shown below.

Field name	Explanation	Example value
Title	Title to be displayed for the block	Hours and location
Display title	Whether or not to display the title with the block	Checked
Region	Which theme region to display it in	Sidebar second

You can also hide or display the block on specific pages. In the case of the Farmer's market website you do not set any of these configuration options because you want to show the block everywhere.

## Configure block ★

Home » Administration » Structure » Block layout » Configure block

✓ Basic block *Hours and location block* has been created.

**Block description:** Hours and location block

**Title \***

Machine name: hours\_location [\[Edit\]](#)

Display title

**Visibility**

<b>Content types</b>	
Not restricted	
<b>Pages</b>	
Not restricted	
<b>Roles</b>	
Not restricted	
<input type="checkbox"/> Basic page <input type="checkbox"/> Recipe <input type="checkbox"/> Vendor	<input type="checkbox"/> Basic page <input type="checkbox"/> Recipe <input type="checkbox"/> Vendor

**Region \***

Sidebar second
 

▼

Select the region where this block should be displayed.

**Save block**

5. Click *Save block*. The *Block layout* page appears. You can drag blocks to change the order in which they will appear.
6. Verify that the Opening hours and location block is listed in the *Sidebar second* region, and click *Save blocks*.

The block has been placed on the sidebar of all pages that use the core Bartik theme.

The screenshot shows the homepage of the Anytown Farmers Market website. At the top, there is a logo for 'Anytown Farmers Market' featuring a sun, a house, and a farm. Below the logo, the text 'Anytown Farmers Market' and 'Farm Fresh Food' is displayed. In the top right corner, there are links for 'My account' and 'Log out'. The main content area has a green gradient background. Below the header, there are two menu items: 'Home' and 'About'. The 'About' menu item is highlighted with a grey background. The 'About' page itself has a light orange header with the word 'About' and a 'Tools' link. Below this, there is a toolbar with 'View', 'Edit', 'Delete', and 'Revisions' buttons. The main content area contains two paragraphs: 'City Market started in April 1990 with five vendors.' and 'Today, it has 100 vendors and an average of 2000 visitors per day.' To the right of the main content, there is a sidebar with a light orange header labeled 'Hours and location'. It contains text about opening hours ('Open: Sundays, 9 AM to 2 PM, April to September') and location ('Location: Parking lot of Trust Bank, 1st & Union, downtown').

## Expand your understanding

- Remove the *Powered by Drupal* block from the *Footer fifth* region by clicking *Disable* or *Remove* in the *Operations* dropdown button. Clicking *Disable* will let you enable the block easily later with the same configuration; if you click *Remove* and you want the block back, you would need to go through the steps in this topic to place it in a region again. Note that the names of the blocks that are provided by the core software, such as *Powered by Drupal* and *User login*, are shown in English on this page; see [Section 2.7, "Concept: User Interface, Configuration, and Content translation"](#) for an explanation.
- Remove the *Tools* block from the *Sidebar first* region. This block is only visible to logged-in users.
- Place the *User login* block in a region.
- If you do not see the effect of these changes in your site, you might need to clear the cache. See [Section 12.2, "Clearing the Cache"](#).

## Videos

Placing a Block in a Region

[Placing a Block in a Region](#)

## Attributions

Written and edited by [Boris Doesborg](#) and [Jennifer Hodgdon](#).

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# Chapter 9. Creating Listings with Views

## 9.1. Concept: Uses of Views

### Prerequisite knowledge

- [Section 2.4, "Concept: Modular Content"](#)
- [Section 2.3, "Concept: Content Entities and Fields"](#)

### What is a view?

A *view* is a listing of content on a website. The core Views module handles the display of views, and the core Views UI module allows you to create and edit them in the administrative interface. When you define views, you are interested in taking data from your website and displaying it to the user.

### What types of data can be displayed using views?

You can create views to output practically any content entity that is stored in the system. For example, you can create the following lists for the farmers market site:

- Lists of vendors
- Lists of recipes
- Lists of the most recent content on the site
- Lists of users on the site

### What are the ways data can be output using views?

A listing created by a view can be in any of the following forms:

- Table with sortable fields
- Grid layouts
- Teasers or pictures that link to articles
- Blocks
- JSON output

- RSS feeds
- Calendars
- On-screen slideshows

## Related topics

- [Section 9.2, "Concept: The Parts of a View"](#)
- [Section 9.3, "Creating a Content List View"](#)

## Attributions

Written and edited by [Michael Lenahan](#) at [erdfisch](#), and [Jojo Alphonso](#) at [Red Crackle](#).

## 9.2. Concept: The Parts of a View

### Prerequisite knowledge

- [Section 2.3, "Concept: Content Entities and Fields"](#)
- [Section 2.4, "Concept: Modular Content"](#)
- [Section 9.1, "Concept: Uses of Views"](#)
- [Section 5.1, "Concept: Paths, Aliases, and URLs"](#)
- [Section 8.1, "Concept: Blocks"](#)

### What are the parts of a view?

When you are editing a view in the administrative interface, you will see the following parts (or sections), which allow you to specify what data to output, in what order, and in what format:

#### Display

Each view can have one or more displays, each of which produces one type of output. Options for display types include:

#### Page

Makes output at a particular URL, for the main page content at that URL.

#### Block

Makes output in a block, which can be placed on pages.

### Feed

Makes an RSS or another type of feed.

### Attachment

Makes output that you can attach to another display.

### Format

Depending on the display type, you can choose to output your data in a table, grid, HTML list, or another format. Some formats also give you a second choice that lets you output either rendered entities or fields; other formats do not give you this choice (for example, if you use a table format, you must always use fields).

### Fields

Depending on the format choice, you may be able to choose which content fields are output. For example, if you were making a view of recipe content items, in a block display you might show only the recipe names, while in a full page display you might also show an image field because you have more space.

### Filter criteria

Filters limit the data to be output, based on criteria such as whether the content has been published or not, the type of content, or a field value. For instance, to make a view of recipe content items, you would need to filter to the Recipe content type, and to published recipes. Filters can also be *exposed*, which means that users will have a form where they can choose their own filter values. You might use this on a Recipe page to let users filter for recipes with certain ingredients.

### Sort criteria

Defines the order to present the output, which can be based on any content field.

### Contextual filters

Contextual filters are like regular filters, except that the values come from the *context* of the view display, such as the full URL of the page being displayed, the current date or time, or some other value that can be detected by the view calculation.

### Relationships

Relationships allow you to expand what is displayed in your view, by relating the base content being displayed to other content entities. Relationships are created using fields on the base content that relate it to the other content; one example is that all regular content items have an author field, which references the user account of the person who authored the content. Once you have created a relationship, you can display fields from the referenced entity in the view.

## Related topics

[Section 9.3, "Creating a Content List View"](#)

### Attributions

Written and edited by [Surendra Mohan](#) and [Jennifer Hodgdon](#).

## 9.3. Creating a Content List View

### Goal

Create a page listing vendors that will be automatically updated whenever a vendor is added, deleted, or updated on the site.

### Prerequisite knowledge

- [Section 9.1, "Concept: Uses of Views"](#)
- [Section 9.2, "Concept: The Parts of a View"](#)

### Site prerequisites

- The core Views and Views UI modules must be installed. These are installed for you when you install with the core Standard installation profile.
- The Vendor content type must exist, with URL and Main image fields. Your site must have a couple of Vendor content items. See [Section 6.1, "Adding a Content Type"](#), [Section 6.3, "Adding Basic Fields to a Content Type"](#), and [Section 5.2, "Creating a Content Item"](#).
- The *Medium (220x220)* image style must be defined. This is created on your site when you install the core Image module (installed with the core Standard installation profile) but can be recreated if deleted. See [Section 6.13, "Setting Up an Image Style"](#).

### Steps

1. In the *Manage* administrative menu, navigate to *Structure > Views > Add view* ([admin/structure/views/add](#)). The *Add view* wizard appears.
2. Fill in the fields as shown below.

Field name	Explanation	Example value
View basic information > View name	Name of the view that will be visible in the administration pages	Vendors
View settings > Show	Type of information listed in the view	Content
View settings > of type	Specify content type	Vendor
View settings > sorted by	List order	Title
Page settings > Create a page	Create a page that displays the view	Checked

Field name	Explanation	Example value
Page settings > Page title	Title show above the view	Vendors
Page settings > Path	Address of the page	vendors
Page settings > Page display settings > Display format	Type of list	Table
Page settings > Items to display	Number of items visible on the page	10
Page settings > Use a pager	Split up the list in several pages if there are more items	Checked
Page settings > Create a menu link	Add the view page to the menu	Checked
Page settings > Menu	Menu in which to add the link	Main navigation
Page settings > Link text	Label of the link in the menu	Vendors

**Add view ☆**

Home » Administration » Structure » Views

**VIEW BASIC INFORMATION**

**View name \***  
 Machine name: vendors [[Edit](#)]  
 Description

**VIEW SETTINGS**  
Show: Content of type: Vendor tagged with:  sorted by: Title

**PAGE SETTINGS**  
 Create a page  
Page title: Vendors  
Path: vendors

**PAGE DISPLAY SETTINGS**  
Display format: Table of: teasers  
Items to display: 10 [▲]

3. Click *Save and edit*. The view configuration page appears.
4. Under *Fields*, click *Add* from the dropdown button. The *Add fields* pop-up appears.
5. Enter the word "image" in the search field.
6. Check *Main image* in the table.

7. Click *Apply*. The *Configure field: Content: Main Image* pop-up appears.
8. Fill in the fields as shown below.

<b>Field name</b>	<b>Explanation</b>	<b>Example value</b>
Create a label	Add a label before the field value	Unchecked
Image style	The format of the image	Medium (220x220)
Link image to	Add a link to the content item	Content

9. Click *Apply*. The view configuration page appears.
10. Under *Fields*, click *Add* from the dropdown button. The *Add fields* pop-up appears.
11. Enter the word "body" in the search field.
12. Select *Body* in the table.
13. Click *Apply*. The *Configure field: Content: Body* pop-up appears.
14. Fill in the fields as shown below.

<b>Field name</b>	<b>Explanation</b>	<b>Example value</b>
Create a label	Add a label before the field value	Unchecked
Formatter	The presentation of the field value	Summary or trimmed
Trimmed limit:	The number of maximum characters shown	120

15. Click *Apply*. The view configuration page appears.
16. Under *Fields*, click *Content: Title (Title)*. The *Configure field: Content: Title* pop-up appears.
17. Uncheck *Create a label*. This will remove the label that was created by the wizard.
18. Click *Apply*. The view configuration page appears.
19. Under *Fields*, click *Rearrange* in the dropdown button. The *Rearrange fields* pop-up appears.
20. Drag the fields into the right order: Image, Title, Body.
21. Click *Apply*. The view configuration page appears.
22. Optionally, click *Update preview* for a preview.
23. Click *Save*.

## Creating Listings with Views

The screenshot shows the 'Vendors (Content)' view configuration page in Drupal. At the top, there's a breadcrumb trail: Home > Administration > Structure > Views > Vendors > Edit. The main area is titled 'Displays' and contains several sections:

- TITLE:** Title: Vendors
- FORMAT:** Format: Table | Settings
- FIELDS:** Content: Main image, Content: Title, Content: Body
- FILTER CRITERIA:** Content: Published (= Yes), Content: Content type (= Vendor)
- SORT CRITERIA:** Content: Title (asc)
- PAGE SETTINGS:** Path: /Vendors, Menu: Normal: Vendors, Access: Permission | View published content
- HEADER:** Add
- FOOTER:** Add
- NO RESULTS BEHAVIOR:** Add
- PAGER:** Use pager: Mini | Mini pager, 10 items, More link: No
- ADVANCED:** Edit view name/description, View Page

At the bottom are 'Save' and 'Cancel' buttons.

Below this is a 'Preview' section with an 'Update preview' button and an 'Auto preview' checkbox.

24. Navigate to the homepage and click Vendors from the main navigation to see the result.

The screenshot shows the homepage of the Anytown Farmers Market. The header features a logo for 'ANYTOWN FARMERS MARKET FARM FRESH FOOD' and the text 'Anytown Farmers Market' and 'Farm Fresh Food'. The main navigation bar includes links for 'Home', 'About', and 'Vendors'. On the left, a sidebar titled 'Tools' has an 'Add content' button. The central content area is titled 'Vendors' and displays two entries:

Image	Name	Description
	Happy Farm	Happy Farm grows vegetables that you will love.
	Sweet Honey	Sweet Honey produces honey in a variety of flavors throughout the year.

To the right, a box titled 'Hours and location' contains the text: 'Open: Sundays, 9 AM to 2 PM, April to September' and 'Location: Parking lot of Trust Bank, 1st & Union, downtown'.

## Expand your understanding

The link to the view in the main navigation will probably not be in the right place. Change the order of the menu items in the main navigation. See [Section 5.8, "Changing the Order of Navigation"](#).

## Videos

Creating a Content List View

[\*Creating a Content List View\*](#)

### Attributions

Written/edited by [\*Boris Doesborg\*](#) and [\*Jennifer Hodgdon\*](#).

## 9.4. Duplicating a View

### Goal

Create a page listing recipes by duplicating the existing Vendors view. Modify the page so that the recipes are displayed in a grid and can be filtered by ingredients.

### Prerequisite knowledge

- [\*Section 9.1, "Concept: Uses of Views"\*](#)
- [\*Section 9.2, "Concept: The Parts of a View"\*](#)
- [\*Section 9.3, "Creating a Content List View"\*](#)

### Site prerequisites

- The Vendor and Recipe content types must exist; both must have Main image fields, and the Recipe content type must have an Ingredients field. Your site must also have a couple of Recipe content items. See [\*Section 6.1, "Adding a Content Type"\*](#), [\*Section 6.3, "Adding Basic Fields to a Content Type"\*](#), [\*Section 6.6, "Setting Up a Taxonomy"\*](#), [\*Section 6.9, "Changing Content Entry Forms"\*](#), and [\*Section 5.2, "Creating a Content Item"\*](#).
- The Vendors view must exist. See [\*Section 9.3, "Creating a Content List View"\*](#).

### Steps

1. In the *Manage* administrative menu, navigate to *Structure > Views* (`admin/structure/views`). Find the view "Vendors" and click *Duplicate* in its dropdown button. (Note that the names of views that came with your installation profile are shown in English on this page; see [\*Section 2.7, "Concept: User Interface, Configuration, and Content translation"\*](#) for an explanation.)

## Creating Listings with Views

The screenshot shows the 'Views' configuration page. At the top, there are 'List' and 'Settings' tabs. Below them is a breadcrumb navigation: Home > Administration > Structure. A blue button labeled '+ Add view' is visible. A search bar allows filtering by view name, machine name, description, or display path. The main area is titled 'Enabled' and contains a table with columns: VIEW NAME, MACHINE NAME, DESCRIPTION, DISPLAYS, and OPERATIONS. The table lists six views:

VIEW NAME	MACHINE NAME	DESCRIPTION	DISPLAYS	OPERATIONS
Comments	comment	Find and manage comments.	Page (/admin/content/comment) Page (/admin/content/comment/approval)	<button>Edit</button>
Taxonomy term	taxonomy_term	Content belonging to a certain taxonomy term.	Feed (/taxonomy/term/%/feed) Page (/taxonomy/term/%)	<button>Edit</button>
Vendors	vendors		Page (/vendors)	<button>Edit</button>
Watchdog	watchdog	Recent log messages	Page (/admin/reports/dblog)	<button>Edit</button> <button>Duplicate</button> <button>Disable</button> <button>Delete</button>
Who's new	who_s_new	Shows a list of the newest user accounts on the site.	Block	<button>Edit</button>
Who's online block	who_s_online	Shows the user names of the most recently active users, and the total number of active users.	Block	<button>Edit</button>

2. Name the duplicate "Recipes" and click *Duplicate*. The view configuration page appears.
3. To change the title of the view page to "Recipes", click Vendors in the *Title* field under *Title*. The *Page: The title of this view* pop-up appears. Enter "Recipes". Click *Apply*.

This screenshot shows a 'Title' configuration pop-up. It has a 'Title' field containing 'Recipes'. Below it is a note: 'This title will be displayed with the view, wherever titles are normally displayed; i.e., as the page title, block title, etc.' At the bottom are 'Apply' and 'Cancel' buttons.

4. To change from a table to a grid format, click *Table* in the *Format* field under *Format*. The *Page: How should this view be styled* pop-up appears. Check *Grid* and click *Apply*. The *Page: Style options* pop-up appears. Retain the default values and click *Apply*.
5. To retain only the title and image fields for the Recipes view, click *Content: Body* under *Fields*. Click *Remove* in the pop-up that appears.
6. To change the content type filter to use the Recipe content type, click *Content: Type (=Vendor)* under *Filter criteria*. In the *Configure filter criterion: Content: Type* pop-up, check *Recipe* and uncheck *Vendor*. Click *Apply*.
7. To add a further filter that is exposed to visitors, click *Add* in the dropdown button under *Filter criteria*. Search for "ingredients" and check "Ingredients (field\_ingredients)". Click *Add and configure filter criteria*.
8. The appearing pop-up offers extra settings on vocabulary and selection type. Click *Apply and continue*. The next pop-up allows you to expose this filter to visitors. Fill in the fields as shown below, and click *Apply*.

Field name	Explanation	Example value
Expose this filter to visitors, to allow them to change it	Allow visitors to filter and search	Checked
Required	Whether a value has to be provided or not	Unchecked
Label	Label shown for this filter on the view page	Find recipes using...

Appears in: recipe.

Expose this filter to visitors, to allow them to change it

**Filter type to expose**

- Single filter
- Grouped filters

Grouped filters allow a choice between predefined operator|value pairs.

Required

**Label**

Find recipes using...

**Description**

9. To change the *Path* label field to "Recipes", click "/vendors" in the *Path* field under *Page settings*. In the pop-up that appears, enter the path "recipes" and click *Apply*.

Note that when editing a view, you enter paths without the leading "/", unlike on other administrative pages (such as when providing a path to a content item page).

10. To change the menu link title, click "Normal: Vendors" in the *Menu* field under *Page settings*. In the pop-up that appears, change the title to "Recipes" and click *Apply*.
11. In order to use Ajax (see [Ajax entry in the Glossary](#)) to make filtering and paging faster for users, under *Advanced > Other*, click *No* in the *Use AJAX* field. Check *Use AJAX* in the pop-up that appears, and click *Apply*.
12. Click *Save* to save the view.
13. Go back to the home page and click Recipes in the navigation to view the new Recipes page.

The screenshot shows the homepage of the Anytown Farmers Market website. At the top, there's a green header bar with the market's logo on the left, which includes a circular emblem with a tractor and the text "ANYTOWN FARMERS MARKET" and "FARM FRESH FOOD". To the right of the logo, there are links for "My account" and "Log out". Below the header, the main content area has a dark green background. On the left, a sidebar with an orange header "Tools" contains links for "Home", "About", "Recipes" (which is highlighted in blue), and "Vendors". The main content area has a white background and features the title "Recipes" in large, bold, black font. Below it is a search bar with the placeholder "Find recipes using...". Underneath the search bar is a button labeled "Apply". To the right of the search area, there are two images: one of fresh carrots arranged in a circle on a grassy surface, and another of a green salad. Below each image is its respective caption: "Fresh Carrots" and "Green Salad". In the bottom right corner of the main content area, there's a box titled "Hours and location" containing text about opening hours and location.

## Expand your understanding

The link to the view in the main navigation will probably not be in the right place. Change the order of the menu items in the main navigation. See [Section 5.8, "Changing the Order of Navigation"](#).

## Related concepts

- [Section 2.5, "Planning your Content Structure"](#)
- [Ajax entry in the Glossary](#)

## Videos

Duplicating a View

[Duplicating a View](#)

## Attributions

Written and edited by [Laura Vass](#) at [Pronovix](#), and [Joy Alphonso](#) at [Red Crackle](#).

## 9.5. Adding a Block Display to a View

### Goal

Add a block display to the Recipes view to display the most recent recipes in a sidebar, and change its configuration without changing the existing Recipes page view.

### Prerequisite knowledge

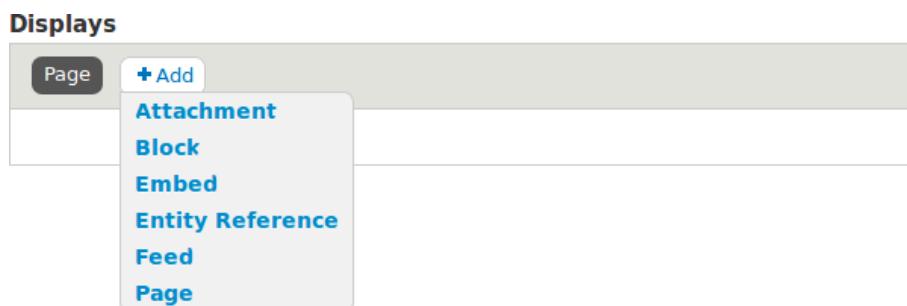
- [Section 9.1, "Concept: Uses of Views"](#)
- [Section 9.2, "Concept: The Parts of a View"](#)
- [Section 9.3, "Creating a Content List View"](#)

### Site prerequisites

- The Recipe content type must exist, it must have a Main image field, and your site must have a couple of Recipe content items. See [Section 6.1, "Adding a Content Type"](#), [Section 6.3, "Adding Basic Fields to a Content Type"](#), [Section 6.9, "Changing Content Entry Forms"](#), and [Section 5.2, "Creating a Content Item"](#).
- The *Thumbnail (100x100)* image style must be defined. This is created on your site when you install the core Image module (installed with the core Standard installation profile) but can be recreated if deleted. See [Section 6.13, "Setting Up an Image Style"](#).
- The Recipes view must exist. See [Section 9.3, "Creating a Content List View"](#) and [Section 9.4, "Duplicating a View"](#).

### Steps

1. In the *Manage* administrative menu, navigate to *Structure > Views* ([admin/structure/views](#)). Find the view "Recipes" and click *Edit* from its dropdown button. Alternatively, navigate to the Recipes page in the main site navigation, and click the *Edit view* contextual link in the main area of the page. See [Section 4.1, "Concept: Administrative Overview"](#) for information about contextual links.
2. Create a new block display by clicking *Add* under *Displays*. Click *Block* from the list of links that appears. The new display is created, and the focus is automatically switched to its configuration.



3. To change the title of this display, click *Block* in the *Display name* field. The *Block: The name and the description of this display* pop-up appears. Change the *Administrative name* to "Recent recipes". Click *Apply*.
4. To change the title of the block, click *Recipes* in the *Title* field under *Title*. In the pop-up that appears, select *This block (override)* from the *For* select list. Change the *Title* field to "New recipes" and click *Apply (this display)*.

The screenshot shows a configuration dialog for a view titled "Recent recipes: The title of this view". At the top left is a small yellow star icon. Below the title, the path "Home » Administration » Structure » Views" is visible. The main section is titled "For" with a dropdown menu showing "This block (override)". Under "Title", the input field contains "New recipes". A descriptive note below says: "This title will be displayed with the view, wherever titles are normally displayed; i.e., as the page title, block title, etc." At the bottom are two buttons: "Apply" (highlighted in blue) and "Cancel".

5. To change the block's style, click *Grid* in the *Format* field under *Format*. In the pop-up that appears, select *This block (override)* from the *For* select list. Select *Unformatted list* and Click *Apply (this display)*. You can further configure the style options in the next pop-up that appears. Then click *Apply*.
6. To configure the image field, click *Content: Main image* under *Fields*. In the pop-up that appears, select *This block (override)* from the *For* select list. Select *Image style Thumbnail (100x100)*. Click *Apply (this display)*.

## Configure field: Content: Main image

Home » Administration » Structure » Views

**For**

This block (override) ▾

Appears in: vendor, recipe.

Create a label

**Label**

Place a colon after the label

Exclude from display

Enable to load this field as hidden. Often used to group fields, or to use as token in another field.

**Column used for click sorting**

target\_id ▾

Used by Style: Table to determine the actual column to click sort the field on. The default is usually fine.

**Formatter**

Image ▾

**Image style**

Thumbnail (100×100) ▾

[Configure Image Styles](#)

**Link image to**

Content ▾

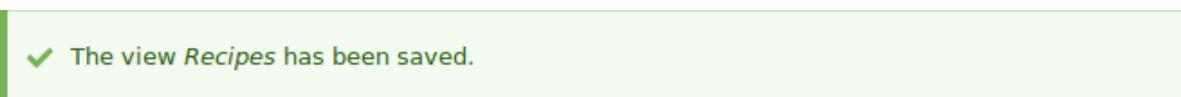
**▶ STYLE SETTINGS**

**▶ REWRITE RESULTS**

7. To remove ingredients as a filter, click *Content: Ingredients (exposed)* under *Filter criteria*. In the pop-up that appears, select *This block (override)* from the *For* select list. Click *Remove* at the bottom.
8. To configure how you want the content to be sorted in the view, click *Add* from the dropdown button under *Sort criteria*. In the pop-up that appears, select *This block*

(override) from the For select list. Check Authored on (in the Content category), and then click Add and configure sort criteria.

9. In the appearing configuration pop-up, select Sort descending to have the most recent recipes appear first. Click Apply.
10. To specify the number of items to be displayed, click Mini in the Use pager field under Pager. In the pop-up that appears, select This block (override) from the For select list. Under Pager, select Display a specified number of items. Click Apply (this display). In the Block: Pager options pop-up, provide "5" as the value for Items to display. Click Apply.
11. Click Save. You will either see the view editing page again, or the Recipes page, depending on what you did in step 1. You should also see a message saying that the view has been saved.



12. Place the "Recipes: Recent Recipes" block in the Sidebar second region. See [Section 8.3, "Placing a Block in a Region"](#). Navigate to the site's home page to see the block.

A screenshot of a website for "Anytown Farmers Market". The header features a logo with a sun, clouds, and a farm, and the text "Anytown Farmers Market" and "Farm Fresh Food". The top right has links for "My account" and "Log out". A navigation bar at the bottom includes "Home", "About", "Recipes", and "Vendors".  
  
The main content area has a title "Home" and a paragraph: "Welcome to City Market - your neighborhood farmers market! Open: Sundays, 9 AM to 2 PM, April to September Location: Parking lot of Trust Bank, 1st & Union, downtown".  
  
On the right side, there is a sidebar titled "Hours and location" with the same information. Below it is another sidebar titled "New recipes" featuring images of "Fresh Carrots" and "Green Salad".  
  
A "Tools" sidebar on the left contains "Add content". At the bottom left, there is a "View", "Edit", "Delete", and "Revisions" toolbar.

## Videos

Adding a Block Display to a View

[Adding a Block Display to a View](#)

## Attributions

Written and edited by [Laura Vass](#) at [Pronovix](#), [Jennifer Hodgdon](#), and [Jojo Alphonso](#) at [Red Crackle](#).

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# Chapter 10. Making Your Site Multilingual

## 10.1. Adding a Language

### Goal

Add one or more languages to your site and define which one is used by default.

### Prerequisite knowledge

[Section 2.7, "Concept: User Interface, Configuration, and Content translation"](#)

### Steps

1. Install the four core multilingual modules (Language, Interface Translation, Content Translation, and Configuration Translation), by following the steps in [Section 4.3, "Installing a Module"](#).
2. In the *Manage* administrative menu, navigate to *Configuration > Regional and language > Languages* (`admin/config/regional/language`).
3. Click *Add language*.
4. Select *Spanish* (or your preferred language) from the *Language name* select list. Click *Add language*. After waiting for translations to finish downloading, you will be returned to the *Languages* page, with a confirmation message and the new language shown.

The screenshot shows the 'Languages' configuration page in Drupal. At the top, there are tabs for 'List' and 'Detection and selection'. Below the tabs, the breadcrumb navigation shows: Home > Administration > Configuration > Regional and language. A success message box contains the following text:  
✓ The language **Spanish** has been created and can now be used.  
Use one of the language switcher blocks to allow site visitors to switch between languages. You can enable these blocks on the [block administration page](#).  
One translation file imported. 8303 translations were added, 0 translations were updated and 0 translations were removed.

Below the message box, there is a note: Reorder the configured languages to set their order in the language switcher block and, when editing content, in the list of selectable languages. This ordering does not impact [detection and selection](#).

The site default language can also be set. It is not recommended to change the default language on a working site. [Configure the Selected language setting](#) on the detection and selection page to change the fallback language for language selection.

Interface translations are automatically imported when a language is added, or when new modules or themes are enabled. The report [Available translation updates](#) shows the status. Interface text can be customized in the [user interface translation](#) page.

At the bottom left is a blue button labeled '+ Add language'. On the right, there is a link 'Show row weights'. The main table lists two languages:

NAME	DEFAULT	INTERFACE TRANSLATION	OPERATIONS
English	<input checked="" type="radio"/>	not applicable	<button>Edit</button>
Spanish	<input type="radio"/>	8303/8313 (99.88%)	<button>Edit</button>

At the bottom left of the table is a blue 'Save configuration' button.

5. Follow the steps in [Section 8.3, "Placing a Block in a Region"](#) to place the *Language switcher* block in the *Sidebar second* region. This will enable site visitors to switch between languages, once the site has been translated.

## Expand your understanding

- [Section 10.2, "Configuring Content Translation"](#)
- [Section 10.3, "Translating Content"](#)

## Videos

Adding a Language

[Adding a Language](#)

## Additional resources

[Drupal.org page "Resource Guide: Configuring a Multilingual Site"](#)

## Attributions

Written and edited by [Leila Tite](#), [Jennifer Hodgdon](#), and [Boris Doesborg](#).

## 10.2. Configuring Content Translation

### Goal

Make *Custom block*, *Custom menu link*, and *Content* entity types translatable. Select specific subtypes and set which fields of these can be translated.

### Prerequisite knowledge

- [Section 2.3, "Concept: Content Entities and Fields"](#)
- [Section 2.7, "Concept: User Interface, Configuration, and Content translation"](#)

### Site prerequisites

The core Content Translation module must be installed, and your site must have at least two languages. See [Section 10.1, "Adding a Language"](#).

### Steps

1. In the *Manage* administrative menu, navigate to *Configuration > Regional and language > Content language and translation* (`admin/config/regional/content-language`).
2. Under *Custom language settings*, check *Content*, *Custom block* and *Custom menu link* to make these entity types translatable.

## Custom language settings

- Comment
- Contact message
- Content
- Custom block
- Custom menu link
- File
- Shortcut link
- Taxonomy term
- User

### Save configuration

3. Configuration options appear for *Content*, *Custom block* and *Custom menu link*. Choose the subtypes you want to translate for each entity type. Check *Basic page* for *Content*, *Basic block* for *Custom block* and *Custom menu link* for *Custom menu link*.
4. Verify the settings for the entity types as shown below:

Field name	Explanation	Example value
Default language	The default language for the entity subtype	Site's default language (English)
Show language selector on create and edit pages	Whether or not the language selector should be shown while editing and creating content	Checked

**Default language**

Basic block

Site's default language (English)

Explanation of the language options is found on the [languages list page](#).

Show language selector on create and edit pages

5. Choose the fields that should be translatable for *Basic page* as shown in the table below. If a field is not translation-dependent, leave it unchecked.

Field name	Explanation	Example value
Title	The title of the content	Checked
Authored by	The author	Unchecked
Published	Whether the content has been published or not	Checked
Authored on	Date of publishing	Unchecked
Changed	Date of last update	Unchecked
Promoted to front page	Whether the content will be included in some content views	Unchecked
Sticky at top of lists	Whether the content will be displayed first in some content views	Unchecked
URL alias	Nicer URL for the content	Checked
Body	The main content of the page	Checked

Published

---

Title

---

Authored by

---

Authored on

---

Changed

---

Promoted to front page

---

Sticky at top of lists

---

URL alias

---

Body

---

6. Similarly, check the appropriate boxes for translatable fields belonging to *Basic block* and *Custom menu link*.

7. Click *Save configuration*.

## Expand your understanding

- [Section 10.4, "Translating Configuration"](#)
- [Section 10.3, "Translating Content"](#)

## Videos

Configuring Content Translation

[Configuring Content Translation](#)

## Additional resources

- [Blog post "Multilingual Drupal 8 tidbits, part 5"](#)
- [Blog post "Multilingual Drupal 8 tidbits, part 17"](#)

## Attributions

Written and edited by [Laura Vass](#) at [Pronovix](#), [Jojo Alphonso](#) at [Red Crackle](#), and [Jennifer Hodgdon](#).

# 10.3. Translating Content

## Goal

Translate the home page to Spanish.

## Prerequisite knowledge

[Section 2.7, "Concept: User Interface, Configuration, and Content translation"](#)

## Site prerequisites

- The Home content item must exist. See [Section 5.2, "Creating a Content Item"](#).
- The core Content Translation module must be installed, and your site must have at least two languages. See [Section 10.1, "Adding a Language"](#).
- The *Basic page* content type must be configured to be translatable. See [Section 10.2, "Configuring Content Translation"](#).

## Steps

1. In the *Manage* administrative menu, navigate to *Content* (`admin/content`).

2. Locate the home page. You can search for it by entering "Home" in the title field.
3. Select *Translate* from the dropdown button in the row of the Home content item. The page *Translations of Home* appears.
4. Click *Add* in the row *Spanish*.



The screenshot shows a table titled "Translations of Home" with a star icon. The table has four columns: LANGUAGE, TRANSLATION, STATUS, and OPERATIONS. There are two rows. The first row, "English (Original language)", has a "TRANSLATION" value of "Home", a "STATUS" value of "Published", and an "OPERATIONS" button labeled "Edit". The second row, "Spanish", has a "TRANSLATION" value of "n/a", a "STATUS" value of "Not translated", and an "OPERATIONS" button labeled "Add".

Translations of Home ☆			
View	Edit	Delete	Revisions
LANGUAGE	TRANSLATION	STATUS	OPERATIONS
English (Original language)	Home	Published	<button>Edit</button>
Spanish	n/a	Not translated	<button>Add</button>

5. Note that the user interface has switched to Spanish. To switch it back to English, remove the first instance of *es* in the browser's URL. For example, if your URL looks like *example.com/es/node/5/translations/add/en/es*, remove the *es* that comes immediately after *example.com*.
6. Fill in the fields as shown below.

Field name	Explanation	Value
Title	Translated title of the page	Página principal
Body	Translated body of the page	Bienvenido al mercado de la ciudad - ¡el mercado de agricultores de tu barrio! Horario: Domingos de 9:00 a 14:00. Desde Abril a Septiembre Lugar: parking del Banco Trust número 1. En el centro de la ciudad
URL path settings > URL alias	Translated address of the webpage	pagina-principal

7. Click *Save (this translation)*.
8. Go to your site's home page to view the newly translated page.

## Expand your understanding

- Follow the steps above to translate more content on your site.
- [Section 10.4, "Translating Configuration"](#)

## Videos

Translating Content

[Translating Content](#)

## Attributions

Written by [Boris Doesborg](#).

# 10.4. Translating Configuration

## Goal

Translate the labels on the Recipes view page into Spanish.

## Prerequisite knowledge

- [Section 2.7, "Concept: User Interface, Configuration, and Content translation"](#)
- [Section 9.3, "Creating a Content List View"](#)

## Site prerequisites

- The core Configuration Translation module must be installed, and your site must have at least two languages. See [Section 10.1, "Adding a Language"](#).
- The Recipes view must exist. See [Section 9.3, "Creating a Content List View"](#) and [Section 9.4, "Duplicating a View"](#).

## Steps

The basic steps for translating any configuration on your site are:

1. Locate the page where the configuration you want to translate is created or edited in the site's primary language. For example, to translate the site name, you need to find the page where you would edit the site name (see [Section 4.2, "Editing Basic Site Information"](#)).
2. Find a link, tab, or button on the page that says "Translate" or something similar. Click this link, tab, or button.
3. Find a button that will let you add a translation in the desired language, and click this button.
4. Enter the translation in the form, and save.

Most configuration is fairly straightforward and intuitive to edit in this manner. Views configuration is an exception, because the translation editing form is nothing like the view editing form, and it is complex and hierarchical rather than being a simple form with just a few fields. As an example of how to translate a view, here are the steps to translate the labels in the Recipes view to Spanish:

1. In the *Manage* administrative menu, navigate to *Structure > Views* (`admin/structure/views`).
2. Locate the Recipes view and click *Translate* from the dropdown button.
3. Click *Add* in the row *Spanish*. The page *Add Spanish translation for Recipes view* appears.

4. Under *Displays > Master Display settings > Recipes default display Options*, translate *Display title* from "Recipes" to "Recetas".
5. Under *Displays > Master display settings > Recipes default display options > Exposed form > Reset options*, translate *Submit button text* from "Apply" to "Aplicar". The other buttons and labels in this section do not appear on the Recipes page or block, and do not need to be translated.

**Add Spanish translation for Recipes view ☆**

Home » Administration » Structure » Views » Recipes » Translate

<b>Label</b> Recipes	<b>Label</b> Recipes
<b>Administrative description</b> (Empty)	<b>Administrative description</b>

**DISPLAYS**

**MASTER DISPLAY SETTINGS**

<b>Title</b> Master	<b>Title</b> Master
------------------------	------------------------

**RECIPES DEFAULT DISPLAY OPTIONS**

**EXPOSED FORM**

<b>RESET OPTIONS</b>	
<b>Submit button text</b> Apply	<b>Submit button text</b> Apply
<b>Reset button label</b> Reset	<b>Reset button label</b> Reset
<b>Exposed sorts label</b> Sort by	<b>Exposed sorts label</b> Sort by

6. Under *Displays > Master display settings > Recipes default display options > Filters > (Empty) taxonomy term ID > Find recipes using... Expose*, translate *Label* from "Find recipes using..." to "Encontrar recetas usando...".
7. Click *Save translation*.
8. Navigate to the Recipes page and switch to Spanish using the Language switcher block. Verify that the labels have been translated.

## Expand your understanding

- Translate the block display title in the Recent recipes display settings section of the Recipes view.
- Translate the page title in the Vendors view.
- Translate other configuration. Some examples of where to find the translation pages:
  - To translate the site name, navigate in the *Manage* administrative menu to *Configuration > System > Basic site settings > Translate system information* (`admin/config/system/site-information/translate`).

- To translate the contact form, navigate in the *Manage* administrative menu to *Structure > Contact forms (admin/structure/contact)*. Click *Translate* in the dropdown button in the *Website feedback* row.
- To translate the name of a menu, navigate in the *Manage* administrative menu to *Structure > Menus (admin/structure/menu)*. Click *Translate* in the dropdown button for the menu whose name you want to translate.
- Menu items within a menu are considered to be content (not configuration); see [Section 10.2, "Configuring Content Translation"](#) to enable translation. Once translation is enabled, navigate in the *Manage* administrative menu to *Structure > Menus (admin/structure/menu)*. Click *Edit menu* in the dropdown button for the menu whose links you want to translate. Click *Translate* in the dropdown button for the link you want to translate.
- To translate field labels on a content type, navigate in the *Manage* administrative menu to *Structure > Content types (admin/structure/types)*. Click *Manage fields* in the dropdown button for the content type whose field labels you want to edit. Click *Translate* in the dropdown button for the field whose label you want to edit.
- Translate content. See [Section 10.3, "Translating Content"](#).

## Videos

Translating Configuration

[Translating Configuration](#)

## Attributions

Written and edited by [Boris Doesborg](#) and [Jennifer Hodgdon](#).

---

# Chapter 11. Extending and Customizing Your Site

## 11.1. Finding Modules

### Goal

Find and evaluate modules on *Drupal.org*.

### Prerequisite knowledge

- [Section 1.1, “Concept: Drupal as a Content Management System”](#)
- [Section 1.2, “Concept: Modules”](#)

### Steps

1. Go to [Drupal.org](#), and navigate to *Download & Extend > Modules* ([https://www.drupal.org/project/project\\_module](https://www.drupal.org/project/project_module)).
2. Filter your search using the categories on the module search page. Fill in the fields as shown below.

Field name	Explanation	Example value
Maintenance status	How actively should the module be maintained?	Actively maintained
Development status	What kind of development should the module undergo?	Any
Module categories	The module's topic area.	Administration
Core compatibility	The version of the core software the module is compatible with.	8.x
Status	Project status: <i>Sandbox projects</i> are experimental projects. <i>Full projects</i> have already gone through an approval process, but they can still be in development.	Full projects
Search Modules	Search for <i>Admin Toolbar</i> , a module that will be covered	Admin Toolbar

Field name	Explanation	Example value
	in detail later. Alternatively, you can also leave the field blank if you are not sure which module to search for.	
Sort by	Order your search results by criteria like <i>Most installed</i> (popular modules that many sites use) or <i>Last release</i> (date of latest version released).	Most installed

52 Modules match your search

Maintenance status - Any -

Development status - Any -

Module categories - Any -

Core compatibility 8.x

Status Full projects

Stability All projects

Search Modules Admin Toolbar

Sort by Most installed

**Search**

- Click **Search**. Search results will appear.

### Admin Toolbar

Posted by [eme](#) on *20 April 2015*, updated *2 October 2017*

#### What is Admin Toolbar module ?

Admin Toolbar intends to improve the default Drupal Toolbar (the administration menu at the top of your site) to transform it into a drop-down menu, providing a fast access to all administration pages.

The module works on the top of the default toolbar core module and is therefore a very light module and keeps all the toolbar functionalities (shortcut / media responsive).

#### How to use Admin Toolbar module ?

Just install it like any other module.

[Read more](#) · Categories: Actively maintained , Under active development , Administration

### Adminimal Admin Toolbar

Posted by [energee](#) on *19 March 2016*, updated *25 July 2017*

This module is inspired by [Adminimal Administration Menu](#). It provides a minimalist style to [Admin Toolbar](#) for Drupal 8.

Although the "Adminimal" theme provides menu styling, there are some conflicts with Admin toolbar and styling will only be present when the admin theme is set like when editing content.

[Read more](#) · Categories: Actively maintained , Under active development , Administration , Theme Enhancements

### D8 Editor File upload

Posted by [DualFr](#) on *5 September 2015*, updated *21 March 2017*

This module allows to add a button in the Drupal 8 rich text editor active toolbar to directly upload and link files into your content. Without this module, the writer would have to upload the files on the webserver via a file field or a FTP connexion then manually create the link.

[Read more](#) · Categories: Actively maintained , Under active development , Content

### CKEditor Media Embed Plugin

Posted by [grndlvl](#) on *20 October 2015*, updated *12 October 2017*

4. To further evaluate a module, click its title in the list of search results to visit its project page.

Some aspects to pay attention to when evaluating modules:

- Project description: The description of the module on its project page should be clear and useful. You should get an idea of its features and requirements.
- Project information: There may be warnings in this area of the page, such as if a module is no longer being developed, or is not covered by the security advisory policy.
- Project information > Reported installs, downloads: You can see how many people have downloaded and how many sites use the module. If it's only used by a few sites, it might

be a unique solution that not many people need, or it might be a warning sign that you shouldn't use it either.

- **Maintainers:** When was the last commit (the last time someone updated something on the module) or last release (new version)? If the project has few open issues, a long time since commits/releases might be appropriate, but if it has a lot of open issues and there are no commits/releases, that would be a clue that it might be abandoned.
- **Issues:** See if there are any open issues, potential problems with the module. Check the Statistics to see how regularly issues are responded to.
- **Documentation, Resources:** Check if the module has documentation or a README file, that can help you install, configure, explore, and test it.

### Admin Toolbar

[View](#) [Version control](#) [Automated testing](#)

Posted by [eme](#) on 20 April 2015, updated 2 October 2017

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Admin Toolbar

#### What is Admin Toolbar module ?

Admin Toolbar intends to improve the default Drupal Toolbar (the administration menu at the top of your site) to transform it into a drop-down menu, providing a fast access to all administration pages.

The module works on the top of the default toolbar core module and is therefore a very light module and keeps all the toolbar functionalities (shortcut / media responsive).

#### How to use Admin Toolbar module ?

Just install it like any other module.

#### What else?

The module provides also a submodule called "Admin Toolbar Extra Tools" adding extra links like what does Admin Menu module for Drupal 7 (flush caches, run cron, etc...). **You must install admin toolbar extra tools to benefit from lots of useful links in the toolbar menu.**

Please provide feedback and ideas!

#### Complementary modules

[Toolbar Menu](#) allows you to add easily any menu to your toolbar and plays nicely with Admin toolbar making them dropdown menus.

[Toolbar Anti-flicker](#) removes the impact of the admin toolbar sub-menu on the rest of the page. [Coffee](#) is a good module to look for admin paths.

[Adminimal Admin toolbar](#) provides a black theming, recommended for the [Adminimal theme](#). [Admin toolbar content language](#) adds links for creation of content in any active language.

There is also the [Toolbar Themes](#) module that provides nice UI themes.

[Admin links Access filter](#) : fixes the display of links user shouldn't have access to (see [#296693: Hide empty admin categories](#))

#### Supporting organizations:

[emerya](#)

[Trained People](#)

#### Project information

#### Maintainers for Admin Toolbar

[adriancid](#) - 11 commits  
last: 1 day ago, first: 4 weeks ago

[romainj](#) - 42 commits  
last: 1 month ago, first: 1 year ago

[eme](#) - 11 commits  
last: 1 year ago, first: 1 year ago

[matio89](#) - 23 commits  
last: 1 year ago, first: 2 years ago

[View all committers](#)  
[View commits](#)

#### Issues for Admin Toolbar

To avoid duplicates, please search before submitting a new issue.

[Search](#)  
[Advanced search](#)

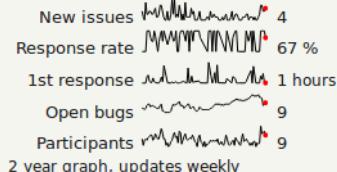
[All issues](#)

[21 open, 207 total](#)

[Bug report](#)

[9 open, 117 total](#)

#### Statistics



## Expand your understanding

[Section 11.3, "Downloading and Installing a Module from Drupal.org"](#)

## Videos

Finding Modules

[Finding Modules](#)

### Attributions

Written by [Diána Lakatos](#) at [Pronovix](#).

## 11.2. Enabling and Disabling Maintenance Mode

### Goal

Put your site in maintenance mode to allow users with the right permissions to use the site while users without this permission are presented with a message that the site is under maintenance.

### Prerequisite knowledge

[Section 13.3, "Concept: Security and Regular Updates"](#)

### Site prerequisites

If you want to use Drush to enable or disable maintenance mode, Drush must be installed. See [Section 3.2, "Concept: Additional Tools"](#).

### Steps

You can use the administrative interface or Drush to enable or disable maintenance mode.

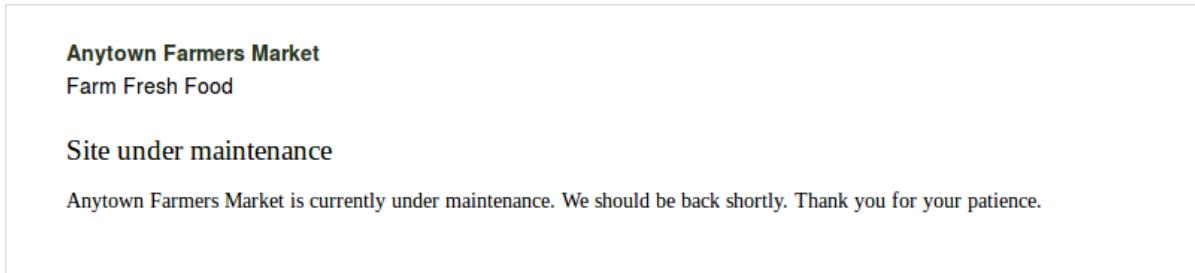
#### Enabling maintenance mode using the administrative interface

1. In the *Manage* administrative menu, navigate to *Configuration > Development > Maintenance mode* (`admin/config/development/maintenance`). The *Maintenance mode* page appears.
2. Fill in the fields as shown below.

Field name	Explanation	Value
Put site into maintenance mode	Enable the maintenance mode	Checked

Field name	Explanation	Value
Message to display when in maintenance mode	The information that is shown to website visitors when the mode is enabled. Variables such as @site can be used in the message	@site is currently under maintenance but should be back shortly. Thank you for your patience.

3. Click *Save configuration*.
4. Verify that the site is in maintenance mode by accessing it from another browser where you aren't logged in. If you are not able to verify, try clearing the cache. See [Section 12.2, "Clearing the Cache"](#).



## Disabling maintenance mode using the administrative interface

1. In the *Manage* administrative menu, navigate to *Configuration > Development > Maintenance mode* (`admin/config/development/maintenance`). The *Maintenance mode* page appears.
2. Fill in the fields as shown below.

Field name	Explanation	Value
Put site into maintenance mode	Disable the maintenance mode	Unchecked
Message to display when in maintenance mode	No message required while disabling. You can leave the field blank.	

3. Click *Save configuration*.
4. Verify that the site is no longer in maintenance mode by accessing it from another browser where you aren't logged in. If you are not able to verify, try clearing the cache. See [Section 12.2, "Clearing the Cache"](#).

The screenshot shows a website for 'Anytown Farmers Market' with a green header. On the right, there's a 'Log in' link. The main content area has a large orange background. It features a circular logo for 'ANYTOWN FARMERS MARKET' with 'FARM FRESH FOOD' around it, and the text 'Anytown Farmers Market' and 'Farm Fresh Food'. Below the logo is a navigation bar with 'Home', 'About', 'Recipes', and 'Vendors' buttons. The main content area has a heading 'Home' and a welcome message: 'Welcome to City Market - your neighborhood farmers market!'. It also lists opening hours ('Open: Sundays, 9 AM to 2 PM, April to September') and location ('Location: Parking lot of Trust Bank, 1st & Union, downtown'). To the right are three boxes: 'Hours and location' (with details about opening times and location), 'Language' (with links to English and Spanish), and 'New recipes' (with images of fresh carrots and green salad).

### Enabling or disabling maintenance mode using Drush

1. Follow the user interface steps above to edit the site maintenance message, if desired.
2. Run the following Drush commands to enable maintenance mode and clear the cache:

```
drush sset system.maintenance_mode 1  
drush cr
```

3. Run the following Drush commands to disable maintenance mode and clear the cache:

```
drush sset system.maintenance_mode 0  
drush cr
```

4. After running either set of commands, verify that your site is either in or out of maintenance mode by visiting the site in a browser where you are not logged in.

### Expand your understanding

- [Section 13.5, "Updating the Core Software"](#)
- [Section 13.7, "Updating a Theme"](#)
- [Section 13.6, "Updating a Module"](#)

## Videos

Enabling and Disabling Maintenance Mode

[\*Enabling and Disabling Maintenance Mode\*](#)

### Attributions

Written and edited by [\*Boris Doesborg\*](#), [\*Jojo Alphonso\*](#) at [\*Red Crackle\*](#), and [\*Jennifer Hodgdon\*](#).

## 11.3. Downloading and Installing a Module from *Drupal.org*

### Goal

Download and install the [\*contributed Admin Toolbar module\*](#), which allows you to easily browse through the administration section of the website.

### Prerequisite knowledge

- [\*Section 1.2, "Concept: Modules"\*](#)
- [\*Section 11.1, "Finding Modules"\*](#)
- [\*Section 3.2, "Concept: Additional Tools"\*](#)

### Site prerequisites

- If you want to install modules via the website, the core Update Manager module must be installed. See [\*Section 4.3, "Installing a Module"\*](#) for instructions on installing modules.
- If you want to use Drush, Drush must be installed. See [\*Section 3.2, "Concept: Additional Tools"\*](#).

### Steps

You can use the administrative interface or Drush to install a contributed module. If you are installing a custom module rather than a contributed module, if you see a message saying *Installing modules and themes requires FTP access to your server*, or if the steps below do not work to download and unpack the module files, follow the steps in [\*Section 11.6, "Manually Downloading Module or Theme Files"\*](#). If you are installing a contributed module with external dependencies that are managed by Composer, follow the steps for downloading in [\*Section 11.9, "Using Composer and Git to Download Files"\*](#). In either of these cases, then continue here with step 7 in the instructions for the administrative interface below.

## Using the administrative interface

1. On the *Admin toolbar* project page on drupal.org ([https://www.drupal.org/project/admin\\_toolbar](https://www.drupal.org/project/admin_toolbar)), scroll to the *Downloads* section at the bottom of the page.
2. Copy the address of the *tar.gz* link. Depending on your device and browser, you might do this by right clicking and selecting *Copy link address*.

**8.x-1.20** released 12 September 2017

- ✓ Recommended by the project's maintainer.
- Bug fixes, new features and code cleaning.

↓ [tar.gz \(19.59 KB\)](#) | [zip \(29.87 KB\)](#)

Development version: **8.x-1.x-dev** updated 20 Oct 2017 at 17:09 UTC

Testing result: **PHP 5.5 & MySQL 5.5, D8.5 4 pass** [all results](#)

[View all releases](#)

3. In the *Manage* administrative menu, navigate to *Extend (admin/modules)*. The *Extend* page appears.
4. Click *Install new module*. The *Install new module* page appears.

**Install new module** ☆

Home » Administration » Extend

You can find [modules](#) and [themes](#) on drupal.org. The following file extensions are supported: tar tgz gz bz2 zip.

**Install from a URL**

For example: <https://ftp.drupal.org/files/projects/name.tar.gz>

**Or**

**Upload a module or theme archive to install**

No file selected.

For example: name.tar.gz from your local computer

**Install**

5. In the field *Install from a URL*, paste the copied download link. This value could look like this: [https://ftp.drupal.org/files/projects/admin\\_toolbar-8.x-1.14.tar.gz](https://ftp.drupal.org/files/projects/admin_toolbar-8.x-1.14.tar.gz)
6. Click *Install* to upload and unpack the new module on the server. The files are being downloaded to the *modules* directory.
7. Click *Enable newly added modules* to return to the *Extend* page. If you used the manual uploading procedure, start with this step, and reach the *Extend* page by using the *Manage* administrative menu and navigating to *Extend (admin/modules)*.
8. Locate and check *Admin toolbar*.
9. Click *Install* to turn on the new module.

## Using Drush

1. Find the project name for the module you want to install, which is the last segment of the module's project page URL. For example, if the project URL is [https://www.drupal.org/project/admin\\_toolbar](https://www.drupal.org/project/admin_toolbar), the project name is "admin\_toolbar".
2. Run the following Drush commands, giving the project name (for example, admin\_toolbar) as a parameter:

```
drush dl admin_toolbar  
drush en admin_toolbar
```

3. Follow the instructions on the screen.

## Expand your understanding

- Verify that the [contributed Admin Toolbar module](#) is working by browsing through the menu in the administration section.
- Install and configure the [contributed Pathauto module](#) so that content pages in your site get nice URLs by default. See [Section 5.1, "Concept: Paths, Aliases, and URLs"](#) for more on URLs.
- If you do not see the effect of these changes in your site, you might need to clear the cache. See [Section 12.2, "Clearing the Cache"](#).

## Videos

Downloading and Installing a Module from Drupal.org

[Downloading and Installing a Module from Drupal.org](#)

## Additional resources

- [Drupal.org community documentation page "Contributed modules"](#)
- ["Download and Extend" page on Drupal.org](#)
- [Admin Toolbar module on Drupal.org](#)

## Attributions

Written and edited by [Boris Doesborg](#) and [Jennifer Hodgdon](#).

## 11.4. Finding Themes

### Goal

Find and evaluate themes on [Drupal.org](#).

## Prerequisite knowledge

- [Section 1.1, “Concept: Drupal as a Content Management System”](#)
- [Section 1.3, “Concept: Themes”](#)

## Steps

1. Go to <https://www.drupal.org>, and navigate to *Download & Extend > Themes* ([https://www.drupal.org/project/project\\_theme](https://www.drupal.org/project/project_theme)).
2. Filter your search using the categories on the theme search page. For example, you might use these filters:

Field name	Explanation	Example value
Maintenance status	How actively is the theme maintained? If a theme is actively maintained, you can expect bug fixes and improvements on a regular basis.	Actively maintained
Development status	What kind of development is the theme undergoing? If you select <i>Under active development</i> , you can expect new features to be added, and some aspects may still change. If you select <i>Maintenance fixes only</i> , it means that the theme is considered complete.	Any
Core compatibility	The Drupal version the theme is compatible with.	8.x
Status	<i>Sandbox projects</i> are experimental projects. <i>Full projects</i> have already gone through an approval process, but they can still be in development.	Full projects
Search Themes	Search by search term in the theme's description.	-
Sort by	Order your search results by criteria like <i>Most installed</i> (popular themes that many sites use) or <i>Last release</i>	Most installed

Field name	Explanation	Example value
	(date of latest version released).	

205 Themes match your search

Maintenance status

Development status

Core compatibility

Status

Stability

Search Themes

Sort by

3. Click *Search*. Search results will appear.

### Bootstrap

Posted by [wundo](#) on 18 May 2008, updated 15 December 2016

**“** Sleek, intuitive, and powerful mobile first front-end framework for faster and easier web development. Bootstrap has become one of the most popular front-end frameworks and open source projects in the world.

This base theme bridges the gap between Drupal and the [Bootstrap Framework](#).

#### Features

- [jsDelivr CDN](#) for "out-of-the-box" styling and faster page load times.
- [Bootswatch](#) theme support, if using the CDN.
- Glyphicons support via [Icon API](#).
- Extensive integration and template/preprocessor overrides for most of the [Bootstrap Framework](#) CSS, Components and JavaScript
- Theme settings to further enhance the Drupal Bootstrap integration:
  - [Breadcrumbs](#)
  - [Navbar](#)
  - [Popovers](#)
  - [Tooltips](#)
  - [Wells](#) (per region)

#### Documentation

Visit the project's [official documentation site](#) or the markdown files inside the [./docs](#) directory.

#### Supported modules

##### Drupal 8

- [Bootstrap Layouts](#)

##### Drupal 7

- [Bootstrap Core](#)
- [jQuery Update](#)
- [Icon API](#)
- [Picture](#)
- [Views \(partial support\)](#)
- [Webform \(partial support\)](#)

#### 5 Year Evolution ([source](#))

<https://youtu.be/Cvq6MPJp2dl>

4. To further evaluate a theme, click its title in the list of search results to visit its project page.

Some aspects to pay attention to while evaluating themes:

- Introduction: The description of the theme on its project page should be clear and useful. A screenshot of the theme helps your evaluation as well.
- Project information: There may be warnings in this area of the page, such as if a theme is no longer being developed, or is not covered by the security advisory policy.

- Project information > Reported installs, downloads: You can see how many people have downloaded and how many sites use the theme.
- Issues: See if there are any open issues, potential problems with the theme. Check the Statistics to see how regularly issues are responded to.
- Documentation, Resources: Check if the theme has documentation or a README file, that can help you install, configure, explore, and test it.

## Expand your understanding

- [\*Section 11.5, "Downloading and Installing a Theme from Drupal.org"\*](#)

## Videos

Finding Themes

[\*Finding Themes\*](#)

## Attributions

Written by [\*Diána Lakatos\*](#).

# 11.5. Downloading and Installing a Theme from *Drupal.org*

## Goal

Download and install a theme from *Drupal.org*.

## Prerequisite knowledge

- [\*Section 11.4, "Finding Themes"\*](#)
- [\*Section 3.2, "Concept: Additional Tools"\*](#)

## Site prerequisites

If you want to install via the website, the core Update Manager module must be installed. See [\*Section 4.3, "Installing a Module"\*](#) for instructions on installing modules.

If you want to use Drush, Drush must be installed. See [\*Section 3.2, "Concept: Additional Tools"\*](#).

## Steps

You can use the administrative interface or Drush to install a contributed theme. If you are installing a custom theme rather than a contributed theme, if you see a message saying *Installing modules and themes requires FTP access to your server*, or if the steps below do not work to download and unpack the theme files, follow the steps in [Section 11.6, “Manually Downloading Module or Theme Files”](#). If you are installing a contributed theme with external dependencies that are managed by Composer, follow the steps for downloading in [Section 11.9, “Using Composer and Git to Download Files”](#). In either of these cases, then continue here with step 7 in the instructions for the administrative interface below.

### Using the administrative interface

1. On the theme's project page on drupal.org (for example, <https://www.drupal.org/project/mayo>), scroll to the *Downloads* section at the bottom of the page.
2. Right-click *tar.gz* to copy the address.

The screenshot shows the 'Downloads' section of a Drupal theme project page. It displays three releases:

- 8.x-1.3** released 9 May 2016:
  - ✓ Recommended by the project's maintainer.
  - ↓ [tar.gz \(437.31 KB\)](#) | [zip \(486.26 KB\)](#)
- Development version: 8.x-1.x-dev** updated 27 Apr 2016 at 21:14 UTC
- 7.x-2.6** released 11 November 2015:
  - ✓ Recommended by the project's maintainer.
  - ↓ [tar.gz \(411.91 KB\)](#) | [zip \(441.6 KB\)](#)
- Development version: 7.x-2.x-dev** updated 11 Feb 2016 at 17:13 UTC
- 7.x-1.4** released 11 November 2015:
  - ↓ [tar.gz \(386.35 KB\)](#) | [zip \(403.15 KB\)](#)

[View all releases](#)

3. In the *Manage* administrative menu, navigate to *Appearance (admin/appearance)*. The *Appearance* page appears.
4. Click *Install new theme*. The *Install new theme* page appears.

## Install new theme ☆

Home » Administration

You can find [modules](#) and [themes](#) on [drupal.org](#). The following file extensions are supported: `tar tgz gz bz2 zip`.

**Install from a URL**

For example: <https://ftp.drupal.org/files/projects/name.tar.gz>

Or

**Upload a module or theme archive to install**

 No file selected.

For example: `name.tar.gz` from your local computer

**Install**

5. In the field *Install from a URL*, paste the copied download link. This value could look like `https://ftp.drupal.org/files/projects/mayo-8.x-1.3.tar.gz`.
6. Click *Install* to upload and unpack the new theme on the server. The files are being downloaded to the *themes* directory.
7. Click *Install newly added themes* to return to the *Appearance* page. If you used the manual uploading procedure, start with this step, and reach the *Appearance* page by using the *Manage* administrative menu and navigating to *Appearance (admin/appearance)*.
8. Locate the new theme under *Uninstalled themes* and click *Install and set as default* to use it. All non-administrative pages on the site will now use this new theme.



### Mayo 8.x-1.2

Simple but fully customizable and colorable responsive layout theme.

[Install](#) | [Install and set as default](#)

## Using Drush

1. Find the project name for the theme you want to install, which is the last segment of the theme's project page URL. For example, if the project URL is <https://www.drupal.org/project/mayo>, the project name is `mayo`.
2. Run the following Drush commands, giving the project name (for example, `mayo`) as a parameter:

```
drush dl mayo  
drush en mayo  
drush config-set system.theme default mayo
```

3. Follow the instructions on the screen.

## Expand your understanding

- In the *Manage* administrative menu, navigate to *Appearance* (`admin/appearance`) and uninstall any themes that you are not using.
- [Section 11.1, "Finding Modules"](#)
- [Section 11.3, "Downloading and Installing a Module from Drupal.org"](#)
- If you do not see the effect of these changes in your site, you might need to clear the cache. See [Section 12.2, "Clearing the Cache"](#).

## Videos

Downloading and Installing a Theme from Drupal.org

## [\*Downloading and Installing a Theme from Drupal.org\*](#)

### **Attributions**

Written and edited by [Joe Shindelar](#) at [Drupalize.Me](#), and [Boris Doesborgh](#).

## **11.6. Manually Downloading Module or Theme Files**

### **Goal**

Manually download module or theme files and upload them to your site, if the website or Drush methods for installing or updating a module or theme do not work, or if you are placing a custom-written module or theme.

### **Prerequisite knowledge**

- [Section 1.2, "Concept: Modules"](#)
- [Section 11.1, "Finding Modules"](#)
- [Section 1.3, "Concept: Themes"](#)
- [Section 11.4, "Finding Themes"](#)

### **Site prerequisites**

You need to be facing any of the following to perform the manual download described in this topic:

- File permission issues
- FTP permission issues
- You created a custom module/theme or received its files from someone
- You could not successfully complete the instructions in [Section 11.3, "Downloading and Installing a Module from Drupal.org"](#), [Section 11.5, "Downloading and Installing a Theme from Drupal.org"](#), [Section 13.6, "Updating a Module"](#), or [Section 13.7, "Updating a Theme"](#)

Skip this topic if none of the above applies to you.

### **Steps**

If you are installing a module or theme from *Drupal.org*, follow the downloading instructions, and then the uploading/unpacking instructions. If you created the module or theme, skip the downloading step. Instead, create an archive file (that you know how to extract on the server)

and proceed with the steps in uploading/unpacking, using whatever method is appropriate for the way you initially created the archive file.

## Downloading the files

1. Open the module or theme project page on drupal.org; for example, the *Admin toolbar* page ([https://www.drupal.org/project/admin\\_toolbar](https://www.drupal.org/project/admin_toolbar)).
2. Scroll to the *Downloads* section near the bottom of the page.

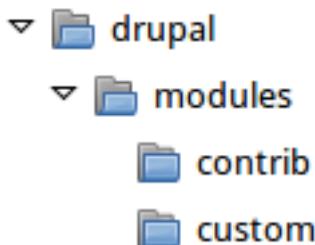
The screenshot shows the download section for the Admin toolbar module. It highlights the 'tar.gz (19.59 KB)' link, which is enclosed in a red box. Below the download links, it shows the development version (8.x-1.x-dev) updated on 20 Oct 2017 at 17:09 UTC and a testing result for PHP 5.5 & MySQL 5.5, D8.5 4 pass.

[View all releases](#)

3. Click *tar.gz* to download the file to your computer.

## Uploading the files to your site and unpacking them

1. If you are adding a new module or theme, create subdirectories in your top-level *modules* and *themes* directories (if they don't already exist). Typically, people make a *contrib* subdirectory for contributed modules and themes that are downloaded from *Drupal.org*, and a *custom* subdirectory for modules and themes that they created. Your *modules* directory might look like this:



2. If you are replacing an existing module or theme with an updated version, put the site into maintenance mode. See [Section 11.2, "Enabling and Disabling Maintenance Mode"](#).
3. If you are replacing an existing module or theme with an updated version, find and delete all the existing files and directories for the existing module or theme. Modules are normally located in directories under the top-level *modules* directory, and themes are normally located in directories under the top-level *themes* directory.
4. Upload the *.tar.gz* file (or whatever archive you created) to your site. Place it in either the same location from which you deleted the directory (if replacing an existing module or theme) or the appropriate subdirectory of *modules* or *themes* (if adding a new module or theme).
5. Extract the files from the *.tar.gz* archive (or whatever archive you created), making a subdirectory in the same location as the archive file. If you do not have terminal access,

or your hosting server is not running Linux, your hosting control panel's file manager should provide a way to extract the files. If you have terminal access to your hosting server (running Linux) and you are using a tar.gz file, you can use a command like:

```
tar -xzf admin_toolbar-8.x-1.17.tar.gz
```

6. Delete the compressed file from the server, unless your unpacking method already deleted it.
7. Refer to [Section 11.3, "Downloading and Installing a Module from Drupal.org"](#), [Section 11.5, "Downloading and Installing a Theme from Drupal.org"](#), [Section 13.6, "Updating a Module"](#), or [Section 13.7, "Updating a Theme"](#) to complete the installation or update of the module or theme. Start at the step after the automatic download has been completed.

## Expand your understanding

- If you work with multiple environments (for example, a local development site and a production site) you will have to repeat the steps on each environment, or re-clone the environment. See [Section 11.8, "Making a Development Site"](#).
- If you added a new theme, navigate in the *Manage* administrative menu to *Appearance* (*admin/appearance*) and uninstall the old theme.

## Videos

Manually Downloading Module or Theme Files

[Manually Downloading Module or Theme Files](#)

## Additional resources

- [Drupal.org community documentation page "Updating modules"](#)
- [Drupal.org community documentation page "Installing contributed modules \(Drupal 8\)"](#)
- [Drupal.org community documentation page "Installing themes"](#)

## Attributions

Written and edited by [Boris Doesborg](#), [Jennifer Hodgdon](#), and [Marc Isaacson](#).

# 11.7. Concept: Development Sites

## What are Development Sites?

Development Sites are different copies of the same site used for developing, updating, and testing a site without risking the integrity of the live site.

An example deployment workflow for site building will usually include the sites mentioned below:

## Local environment

The development process starts with developers working on new features, bug fixes, theming, and configuration in their local environment.

## Development site

Developers push the changes they've been working on to the development site. For a team of more than one developer, version control is usually used. Git is a version control system that tracks your files for any changes. You can then commit those changes to a repository. Using Git allows team members to work on the same site without overriding each other's work. It also makes it possible to easily roll back to previous stages of the development.

## Staging site

The staging site can be used for testing, or presenting the changes to the client for approval. QA (Quality Assurance) and UAT (User Acceptance Testing) are most often carried out on the staging site. It is recommended to have live content on both the development and staging sites, so that you can test how the new features will work with the existing content.

## Production site

The live site on the web available to visitors. It contains new features that have been proven safe to go live.

Based on the project's size, scope, requirements, or stakeholders, stages from the above workflow can be removed, or additional stages can be added. For example, a testing site before staging can be added to separate testing and user acceptance processes.

## Related topics

- [Section 11.8, "Making a Development Site"](#)
- [Section 2.6, "Concept: Editorial Workflow"](#)

## Additional resources

[Drupal.org community documentation page "Introduction to Git"](#)

## Attributions

Written and edited by [Diána Lakatos](#), and [Joy Alphonso](#) at [Red Crackle](#).

# 11.8. Making a Development Site

## Goal

Make a copy of a site that you can use to develop new features and test updates on.

## Prerequisite knowledge

[Section 11.7, "Concept: Development Sites"](#)

## Site prerequisites

- You have a live, developed site that you would like to make a copy of for development purposes.
- If you want to use Drush for some of the steps in this task, Drush must be installed. See [Section 3.2, "Concept: Additional Tools"](#).

## Steps

1. Follow the steps in [Section 3.3, "Preparing to Install"](#), so that you have hosting set up for your development site, you know where the web root is for your development site, and you have an empty database and database user for your development site to use.
2. Make a database dump file from your live site's database. Try one of the following methods:
  - If you are using MySQL as your database, and your live site's server has phpMyAdmin installed (it is available from many hosting control panels), use the *Export* tab in phpMyAdmin to export in *SQL* format. Using *gzip* compression on the output file is suggested, to reduce the file size.
  - If you are using MySQL and have access to the command line, use this command (substituting in your site's database name, user name, and password):

```
mysqldump -u USERNAME -p'PASSWORD' DATABASENAME > BACKUPFILE.sql
```

- If you prefer to use Drush, use this command:

```
drush sql-dump > BACKUPFILE.sql
```

- Use the [contributed Backup and Migrate module](#) from within your live site. See [Section 11.3, "Downloading and Installing a Module from Drupal.org"](#) for instructions on installing contributed modules.

You now have a database dump stored in the file *BACkUPFILE.sql*. For security reasons, avoid storing this file on your hosting server anywhere under the Drupal site root. This will prevent others from getting a copy of your database.

3. Copy all of the files from the web root of your live site to the web root of your development site.
4. Edit the *sites/default/settings.php* file under your development site's top-level directory in a plain-text editor. Find the lines near the end that contain the database name, database username, and database password, and update them to the information about the development site database you set up. The lines look something like this (before editing):

```
$databases['default']['default'] = array (
  'database' => 'live_site_database_name',
  'username' => 'live_site_database_username',
```

- ```
'password' => 'live_site_database_password',
```
5. Check whether your *settings.php* file has the following setting; if yes, then you will need to edit this to point to your development site URL instead of your production site URL:

```
$settings['trusted_host_patterns']
```

6. Import the database dump file you created, into the development site's database. Try one of the following methods:

- If you are using MySQL as your database, and your live site's server has PHPMyAdmin installed (it is available from many hosting control panels), use the *Import* tab in PHPMyAdmin. You may find that you have to restart the import a few times, if your database was large.
- If you are using MySQL and have access to the command line, use this command (substituting in your site's database name, user name, and password; if you made a gzip-compressed backup file, you will also need to uncompress it first):

```
mysql -u USERNAME -pPASSWORD DATABASE_NAME < BACKUPFILE.sql
```

- If you prefer to use Drush, use this command:

```
drush sql-query --file=BACKUPFILE.sql
```

7. If your development and live sites need to have different configuration, then you have to use configuration overrides in the *settings.php* file. The *\$config* variable will help you maintain override values separately from the standard configuration data. For instance, you might want the site name to be "Anytown Farmers Market" on the production site, but "Development Site for Anytown Farmers Market" on the development site. To do that, you could have the production value in the site configuration (in the database), and on the development site, in the *settings.php* file, you would need to have:

```
$config['system.site']['name'] = "Development Site for Anytown Farmers Market";
```

## Expand your understanding

- Verify that the development site is working correctly.
- Log in to the development site as an administrator, and clear the cache. See [Section 12.2, "Clearing the Cache"](#).
- [Section 11.10, "Deploying New Site Features"](#)

## Videos

Making a Development Site

[Making a Development Site](#)

## Additional resources

- [Drupal.org community documentation page "Backing up a site"](#)
- [Drupal.org community documentation page "Create a Test Site"](#)

## Attributions

Written and edited by [Jennifer Hodgdon](#), [Joe Shindelar](#) at [Drupalize.Me](#), and [Jojo Alfonso](#) at [Red Crackle](#).

# 11.9. Using Composer and Git to Download Files

## Goal

Use Composer and/or Git to download files and dependencies in the core software, or in add-on modules and themes.

## Prerequisite knowledge

- [Section 3.2, "Concept: Additional Tools"](#)
- [Section 11.7, "Concept: Development Sites"](#)

## Site prerequisites

If you want to use Git or Composer, they must be installed either on a local development server or your live site. See [Section 3.2, "Concept: Additional Tools"](#).

## Steps

If you are unable to install the Git or Composer tools on your live server, after following the steps in any of the sections below on your local server, you will need to transfer any updated or added files to your live server. The recommended procedure is to make an archive or zip file of the new and changed files, transfer the archive to your live server, and extract it there. If you are using Composer, make sure to check for updates and additions to the following files, in the root of your installation:

- *vendor* directory
- *autoload.php*
- *composer.json*
- *composer.lock*

## Using Git to download a project

Follow these steps if you want to download the development version of the core software, or of a contributed module or theme, from the project's Git version control repository:

1. In a command-line window, change to one level above the directory where you want the files to reside. For the core software, this would be your web root. For an add-on

module, this would be the *modules* directory, or a sub-directory like *contrib* under the *modules* directory.

2. Locate the page for the project that you want to download on *Drupal.org*; for example, <https://www.drupal.org/project/drupal> for the core software, or [https://www.drupal.org/project/admin\\_toolbar](https://www.drupal.org/project/admin_toolbar) for the contributed Admin Toolbar module.
3. Click the *Version control* link near the top of the page, which opens up a page giving Git commands for this project.
4. Copy the `git clone` command under *Setting up repository for the first time*, and paste it into your command line. For example, it might be:

```
git clone --branch 8.2.x https://git.drupal.org/project/drupal.git
```

5. This will create a directory named with the short name of the project (*drupal* in this example), and download the required files into that directory. If necessary, rename the directory.
6. If you downloaded the *drupal* project (the core software), follow the instructions below to download its external dependencies.
7. Later on, you can change to the created directory and run the command `git pull` to update the files to the latest version from the Git repository for the project.

## Using Composer to download external core dependencies

Follow these steps if you downloaded the core software files using Git, which does not include the external dependencies:

1. Change to the core software's root directory.
2. Run the command `composer install` at the command line. The external dependencies will be downloaded.

## Using Composer to download the core software

Follow these steps if you have not yet downloaded or installed the core software, and you want to use Composer to download both the core software and its external dependencies:

1. At the command line, change to one level above the directory where you want the software to reside.
2. Enter this command, where `my_site_name` is the directory you want to create:

```
composer create-project drupal/drupal my_site_name
```

## Using Composer to download a module or theme

Follow these steps if you have already downloaded the core software, and you want to use Composer to add a contributed module or theme (usually because it has external dependencies that need to be downloaded with Composer):

1. Each time you want to add a contributed module or theme, determine the project's short name. This is the last part of the URL of the project page; for example, the Geofield module, at <https://www.drupal.org/project/geofield>, has short name `geofield`.

2. To download the contributed module or theme, along with its external dependencies, enter the following command at the root of your site (substituting the short name of the module or theme for `geofield`):

```
composer require drupal/geofield
```

## Using Composer to update a project's files

Follow these steps to update the files for the core software or a contributed module or theme, after having already started to manage dependencies with Composer:

1. Determine the short name of the project you want to update. For the core software, it is `drupal`. For contributed modules and themes, it is the last part of the URL of the project page; for example, the Geofield module, at <https://www.drupal.org/project/geofield>, has short name `geofield`.
2. Determine how to enter the version number you want to update to. For example, for version 8.x-1.7 of a contributed module, you would enter just the 1.7, and for the core software version 8.3.1, you would enter 3.1.
3. Enter the following command at the root of your site (substituting the short name of the module or theme for `geofield` and the correct version number):

```
composer require drupal/geofield:1.7
```

## Videos

Using Composer and Git to Download Files

[Using Composer and Git to Download Files](#)

## Additional resources

[Drupal.org community documentation page "Using Composer with Drupal"](#)

### Attributions

Adapted by [Jennifer Hodgdon](#), and [Joe Shindelar](#) at [Drupalize.Me](#) from ["Using Composer with Drupal"](#), copyright 2000-2017 by the individual contributors to the [Drupal Community Documentation](#).

## 11.10. Deploying New Site Features

### Goal

Copy a view that you have created in a local development site to the production site.

## Prerequisite knowledge

- [Section 11.8, "Making a Development Site"](#)
- [Section 11.11, "Synchronizing Configuration Versions"](#)
- [Section 11.7, "Concept: Development Sites"](#)

## Site prerequisites

- The core Configuration Manager module must be installed in both the development and production sites. See [Section 4.3, "Installing a Module"](#) for instructions on installing core modules.
- The Vendor content type must exist in both the development and production sites, with the same fields. See [Section 6.1, "Adding a Content Type"](#).
- The Vendors view must exist in the development site but not the production site. See [Section 9.3, "Creating a Content List View"](#).

## Steps

1. Open the local development site.
2. In the *Manage* administrative menu, navigate to *Configuration > Development > Configuration synchronization > Export > Single item* (`admin/config/development/configuration/single/export`). The *Single export* page appears.
3. Select *View* from the *Configuration type* list.
4. Select *Vendors* from the *Configuration name* list. The configuration appears in the textarea.
5. Copy the configuration from the textarea.

The screenshot shows the 'Single export' page with a star icon. At the top, there are tabs for 'Synchronize', 'Import', and 'Export'. Below these are two buttons: 'Full archive' and 'Single item', with 'Single item' being underlined. A breadcrumb navigation path is shown: Home > Administration > Configuration > Development > Synchronize. A message says 'Choose a configuration item to display its YAML structure.' Under 'Configuration type', a dropdown menu is set to 'View'. Under 'Configuration name', another dropdown menu is set to 'Vendors (vendors)'. A large text area titled 'Here is your configuration:' contains the following YAML code:

```

uuid: c50b727c-2201-468a-a53e-cd37a877f1f6
langcode: en
status: true
dependencies:
  config:
    - core.entity_view_mode.node.teaser
    - field.storage.node.body
    - field.storage.node.field_main_image
    - image.style.medium
    - node.type.vendor
    - system.menu.main
  module:
    - image
    - node
    - text
    - user
id: vendors
label: Vendors
module: views
description: ''
tag: ''
base_table: node_field_data
base_field: nid
core: 8.x
display:

```

6. Open the production site.
7. In the *Manage* administrative menu, navigate to *Configuration > Development > Configuration synchronizationImport > Single item* (`admin/config/development/configuration`). The *Import* page appears.
8. Select *View* from the *Configuration type* list.
9. Paste the configuration in the textarea.
10. Click *Import*. The confirmation page appears.
11. Click *Confirm*.
12. Verify that the view was imported by navigating in the *Manage* administrative menu to *Structure > Views*.

## Expand your understanding

The steps in this topic show how to export and import a single configuration item. However, often if you develop functionality on a development website and want to transfer it to your production site, you will need to transfer multiple configuration items. For instance, if you developed a new content type with fields, you would need to transfer several configuration items for each field, one for the content type itself, and possibly multiple view mode and form mode items, and they would have to be transferred in the right order. Getting this right can be both tedious and difficult.

As an alternative, you can export and import the complete configuration of the site. For this, you would need a local development site that is a clone of the production site (see [Section 11.8, "Making a Development Site"](#)), and then you can follow the steps in [Section 11.11, "Synchronizing Configuration Versions"](#) to synchronize configuration between development and production sites.

Another alternative is to use the [contributed Features module](#), which allows exporting and importing bundled functionality (for example, all the configuration for a photo gallery).

Finally, if you do not see the effect of these changes in your site, you might need to clear the cache. See [Section 12.2, "Clearing the Cache"](#).

## Related concepts

- [Section 11.7, "Concept: Development Sites"](#)
- [Section 2.6, "Concept: Editorial Workflow"](#)

## Videos

Deploying New Site Features

[Deploying New Site Features](#)

## Attributions

Written by [Boris Doesborg](#).

# 11.11. Synchronizing Configuration Versions

## Goal

Synchronize the configuration between a development and live site.

## Prerequisite knowledge

- [Section 1.5, "Concept: Types of Data"](#)

- [Section 3.3, "Preparing to Install"](#)
- [Section 11.7, "Concept: Development Sites"](#)
- [Section 11.8, "Making a Development Site"](#)

## Site prerequisites

- You must have a development copy of your production site. See [Section 11.8, "Making a Development Site"](#).
- The core Configuration Manager module must be installed on both the development and production sites. See [Section 4.3, "Installing a Module"](#) for instructions on how to install core modules.
- You must have changed configuration on either the production or development site (the *source site*), and want to synchronize the changes to the other site (the *destination site*). As an example, you can develop a new content type, fields, and views on your development site, and when it is all working correctly, deploy the changes to the live site.
- All configuration that should not be synchronized between the source and destination sites must be stored in configuration overrides in the *settings.php* file rather than in the database. See [Section 11.8, "Making a Development Site"](#).

## Steps

1. In the source site, in the *Manage* administrative menu, navigate to *Configuration > Development > Configuration synchronization > Export* (*admin/config/development/configuration/full/export*).
2. Click *Export*. Your site will generate an archive of the full site configuration. Save the file on your local computer.
3. In the destination site, in the *Manage* administrative menu, navigate to *Configuration > Development > Configuration synchronization > Import* (*admin/config/development/configuration/full/import*).
4. Browse to find the downloaded configuration archive, and click *Upload*. Your configuration archive will be uploaded to the destination site, and you will be redirected to the configuration *Synchronize* page (*admin/config/development/configuration*) with a message saying your files were uploaded.
5. Verify that the differences shown on the page are what you expect. You may see configuration items that have been added, deleted, or changed; for changed items, you can click *View differences* to see what the changes are.
6. When you are satisfied, click *Import all* to import the configuration changes.

## Expand your understanding

- If the changes you have made involve only one configuration item (such as one view), you can use the single configuration export/import feature to deploy the change between sites. See [Section 11.10, "Deploying New Site Features"](#).

- After the step where you export the full configuration from the source site, you might also want to unpack the archive and commit it to a version control system, such as Git, to track changes in your site configuration. See [Section 3.2, “Concept: Additional Tools”](#).

## Videos

Synchronizing Configuration Versions

[\*Synchronizing Configuration Versions\*](#)

## Attributions

Written by [\*Jennifer Hodgdon\*](#).

---

# Chapter 12. Preventing and Fixing Problems

## 12.1. Concept: Cache

### Prerequisite knowledge

[Section 1.1, "Concept: Drupal as a Content Management System"](#)

### What is the page cache?

The software that runs your site, on each page request, must perform calculations and retrieve data from the database, in order to compose the page that is sent to the web browser or other application that is accessing the site. These calculations take time, which can mean that your page load time is longer than would be desirable.

There are several ways that page load time can be sped up, including installing software on the server. The system includes the core Internal Page Cache and Dynamic Page Cache modules, which do not require any additional server software; they use a *database cache* mechanism to speed up your site. The way these modules work is that during page calculations, intermediate results and the final page output are stored in a special database area (known as the *cache*). Then the next time a compatible request is made, intermediate or final results, as appropriate, can be retrieved and used rather than redoing the entire calculation. In addition, when content or data that affects a particular calculation is updated, the affected cached data is removed from the cache, forcing that part of the calculation to be redone the next time it is needed.

These caching modules normally work reasonably well, and offer at least some speed-up for most sites. However, sometimes the page cache can have problems, such as:

- Corrupted data in the cache, leading to garbled or incorrect page output
- Old data remaining in the cache too long, leading to outdated page output
- Insufficient caching, leading to slow page loads

### What other data is cached?

Independent of whether the two page cache modules are installed on your site, the software that your site runs will still cache the output of many internal calculations. The core systems that cache data include:

- The theme system caches information in the database cache about which template files are used to render various types of data. If you are developing a new theme and add a new template file, you'll need to clear this cache to have your theme file recognized.

- CSS and JavaScript files can optionally be optimized and compressed (depending on your site settings). If so, the compressed versions are stored in the file system so that they don't have to be re-optimized too often. If you are developing a module or theme, you may need to either turn off or clear this file cache to have changes to CSS or JavaScript files be recognized.
- The system locates certain low-level PHP functions and classes, such as *hook implementations* and *plugin classes*, from your installed modules and stores information about which module has which functionality. If you are developing a new module or adding features to an existing module, you may need to clear this cache to have your new features be recognized.

## Related topics

If you have problems with your site, the first thing to try to fix it is usually to clear the cache. See [Section 12.2, "Clearing the Cache"](#) for more information.

## Additional resources

Learn about additional caching and performance optimization methods in the [Drupal.org community documentation page "Caching to improve performance"](#).

### Attributions

Written by [Jennifer Hodgdon](#).

## 12.2. Clearing the Cache

### Goal

Clear or rebuild your site's internal caches to ensure they are up-to-date with the most recent data, using the user interface or Drush.

### Prerequisite knowledge

- [Section 12.1, "Concept: Cache"](#)
- [Section 3.2, "Concept: Additional Tools"](#)

### Site prerequisites

If you want to use Drush to clear the cache, Drush must be installed. See [Section 3.2, "Concept: Additional Tools"](#).

## Steps

You can use the administrative interface or Drush to clear the cache.

### Using the administrative interface

1. In the *Manage* administrative menu, navigate to *Configuration > Development > Performance* (`admin/config/development/performance`).
2. Click *Clear all caches*.
3. A message saying the cache has been cleared appears at the top of the page.

### Using Drush

You can use one of two commands:

- Use the command `drush cache-rebuild` to clear and rebuild all cached data for a site. After running this command, you will see the output message "Cache rebuild complete."
- Use the command `drush cc` to see a list of individual caches and then choose the specific cache you would like to clear. Running this command should produce output like the following:

```
> drush cc
Enter a number to choose which cache to clear.
[0] : Cancel
[1] : drush
[2] : theme-registry
[3] : menu
[4] : css-js
[5] : block
[6] : module-list
[7] : theme-list
[8] : render
[9] : views
```

Choose a cache to clear by entering the number associated with that cache. Press "Enter" to continue.

## Videos

Clearing the Cache

[Clearing the Cache](#)

## Additional resources

[Drupal.org community documentation page "Clearing or rebuilding Drupal's cache"](#)

## Attributions

Adapted and edited by [Joe Shindelar](#) and [Jack Haas](#) from "[Clearing or rebuilding Drupal's cache](#)", copyright 2000-2017 by the individual contributors to the [Drupal Community Documentation](#).

## 12.3. Concept: Data Backups

### Prerequisite knowledge

- [Section 1.1, "Concept: Drupal as a Content Management System"](#)
- [Section 3.3, "Preparing to Install"](#)

### What is a site backup?

If something happens to the computer (or computers) that your site and its database are running on, or if you lose access to this computer, you could lose some or all of your site's data. You could also lose data if your site is hacked, or if someone with administrative privileges on your site deletes or alters data mistakenly from the administrative interface. In order to prevent scenarios like this from being permanent, expensive data losses, it is important to make regular backups of your site's data, and to store them in a location that is separate from the computer where your site is running.

The frequency with which you should make data backups, and how many backups you should keep, depends on how frequently your site is changing. If you have a very large amount of content on your site that is being added to or updated many times per day, you would want to make more frequent backups than you would for a site that changes rarely. Also consider that some time could pass between when a data problem occurs and when you notice that it is a problem, so storing a sequence of backups (so that you can go back to the last known good data and retrieve that), rather than overwriting a single backup repeatedly, is a good practice.

Another consideration is that whatever format you store your backups in, it is a good idea to verify that you can actually retrieve lost data from your backups. You might want to test several possible data loss scenarios, and make sure that your data can be restored to the site in all cases.

In order to make a complete backup of your site, you will need to make copies of the following:

- The data in the `sites` directory, including the `sites/default/settings.php` file.
- The data in your site's database. A few tables can be truncated, such as those storing the temporary data cache and user login session information, but it is always safe to back up the entire database.

- Uploaded files, such as images and other attachments. The location of these files is configurable; the standard location is the `sites/default/files` directory under your site root. In the *Manage* administrative menu, navigate to *Configuration > Media > File system* (`admin/config/media/file-system`) to check the file upload locations; to change them, you'll need to edit your `settings.php` file.
- Modules, themes and any other software files you have customized. You can find customized modules and themes in the `modules` and `themes` directories respectively. Some people prefer to back up all software files, including core files and contributed modules and themes (which you could recover by downloading them again from the source), rather than trying to pick out specific files that definitely need to be backed up.

You can perform a test to confirm whether your backup has been done right by making a development copy of the site (see [Section 11.8, "Making a Development Site"](#)).

## Related topics

- [Section 13.5, "Updating the Core Software"](#)
- [Section 11.8, "Making a Development Site"](#)
- [Section 12.1, "Concept: Cache"](#)

## Additional resources

- [Drupal.org community documentation page "Backing up a site"](#)
- The [contributed Backup and Migrate module](#), which can be used to set up automatic backups of the database and uploaded files.

## Attributions

Written by [Jennifer Hodgdon](#).

## 12.4. Concept: Log

### What is a Log?

Your site captures system events in a log to be reviewed by an authorized individual at a later time. The log is a list of recorded events containing usage data, performance data, errors, warnings, and operational information. It is vital to check the log on a regular basis as it is often the only way to tell what is going on.

You can find your site's recent log messages in the *Manage* administrative menu by navigating to *Reports > Recent log messages* (`admin/reports/dblog`).

### Recent log messages

[View](#)
[Delete](#)

Home » Administration » Reports

The Database Logging module logs system events in the Drupal database. Monitor your site or debug site problems on this page.

| Type          | Severity  |
|---------------|-----------|
| block_content | Emergency |
| content       | Alert     |
| cron          | Critical  |
| language      | Error     |
| locale        | Warning   |
| node          | Notice    |
| system        | Info      |
| taxonomy      | Debug     |

[Filter](#)

| TYPE | DATE               | MESSAGE                                              | USER                     | OPERATIONS |
|------|--------------------|------------------------------------------------------|--------------------------|------------|
| user | 10/21/2017 - 12:04 | Session opened for admin.                            | admin                    |            |
| user | 10/21/2017 - 12:04 | Session closed for admin.                            | admin                    |            |
| user | 10/21/2017 - 12:02 | Session opened for admin.                            | admin                    |            |
| user | 10/21/2017 - 12:02 | Session closed for admin.                            | admin                    |            |
| user | 10/21/2017 - 11:59 | Session opened for admin.                            | admin                    |            |
| cron | 10/21/2017 - 11:59 | Cron run completed.                                  | Anonymous (not verified) |            |
| cron | 10/21/2017 - 11:59 | Execution of update_cron() took 1559.99ms.           | Anonymous (not verified) |            |
| cron | 10/21/2017 - 11:59 | Starting execution of update_cron(), execution of... | Anonymous (not verified) |            |

## Attributions

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## 12.5. Concept: Status Report

### What is a Status Report?

The status report is a short overview of your site's parameters as well as any problems detected with your installation. It may be useful to copy and paste this information into support requests filed on [Drupal.org](#)'s support forums and project issue queues or when asking for help on other channels.

You can find the status report in the *Manage* administrative menu by navigating to *Reports > Status report (admin/reports/status)*.

### Status report

[Home](#) » [Administration](#) » [Reports](#)

Here you can find a short overview of your site's parameters as well as any problems detected with your installation. It may be useful to copy and paste this information into support requests filed on [Drupal.org's support forums](#) and project issue queues. Before filing a support request, ensure that your web server meets the [system requirements](#).

|                                                                                                                               |                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>1 ERROR</b><br><a href="#">Details</a>   |  <b>23 CHECKED</b><br><a href="#">Details</a>                                                                                                                                        |                                                                                                                                                                                                          |
| <b>GENERAL SYSTEM INFORMATION</b>                                                                                             |                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                          |
|  <b>Drupal Version</b><br>8.4.0              |  <b>Last Cron Run</b><br>Last run 7 minutes 27 seconds ago<br><a href="#">(more information)</a>  |                                                                                                                                                                                                          |
|  <b>Web Server</b><br>Apache/2.4.18 (Ubuntu) |  <b>PHP Version</b><br>5.6.31-2+ubuntu16.04.1+deb.sury.org+1<br><a href="#">(more information)</a><br><b>Memory limit</b><br>1024M                                                   |  <b>Database Version</b><br>5.7.19-0ubuntu0.16.04.1<br><b>System</b><br>MySQL, MariaDB, Percona Server, or equivalent |

#### Errors found

|                                                                                                                |                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>TRUSTED HOST SETTINGS</b> | <b>Not enabled</b><br>The trusted_host_patterns setting is not configured in settings.php. This can lead to security vulnerabilities. It is <b>highly recommended</b> that you configure this. See <a href="#">Protecting against HTTP HOST Header attacks</a> for more information. |
|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Checked

## Related topics

[Section 14.2, "Getting Support"](#)

### Attributions

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# Chapter 13. Security and Maintenance

## 13.1. Concept: Cron

### What are cron tasks?

To ensure that your site and its modules continue to function well, a group of administrative operations should be run periodically. These operations are called *cron* tasks. Examples of cron tasks are: checking for module and theme updates, indexing content for search, or cleaning up temporary files.

### What is the relationship between the site's cron tasks and Unix cron?

Linux/Unix-based operating systems have a cron scheduler that can be used to run periodic tasks. You can use the server's cron scheduler to schedule runs of the site's cron tasks. Alternatively, you can use the core Automated Cron module to run tasks. You can check the site's cron tasks' status in the status report.

### Related topics

- [Section 13.2, "Configuring Cron Maintenance Tasks"](#)
- [Section 12.5, "Concept: Status Report"](#)

### Additional resources

[Drupal.org community documentation page "Setting up cron"](#)

### Attributions

Written and edited by [Diána Lakatos](#) at [Pronovix](#), [Dave Hansen-Lange](#) at [Advomatic](#), and [Boris Doesborg](#).

## 13.2. Configuring Cron Maintenance Tasks

### Goal

Check whether cron maintenance tasks are run regularly, and if not, either install the core Automated Cron module or run cron maintenance tasks from outside the website.

## Prerequisite knowledge

[Section 13.1, "Concept: Cron"](#)

### Steps

1. Review the *Status report* (see [Section 12.5, "Concept: Status Report"](#)) to see when cron maintenance tasks were last run.

If you installed the website using the core Standard installation profile (or similar), then cron maintenance tasks might already be running via the core Automated Cron module. By default, these tasks are run about every three hours.

2. Choose whether to run cron maintenance tasks using the core Automated Cron module, or by other means. The core Automated Cron module might not be suitable for some websites because:
  - Each time someone accesses a page on the site, the module checks how long it has been since cron maintenance tasks have last run, and then runs them if necessary. If no one visits the website for a long time, cron maintenance tasks will not be run.
  - Cron maintenance tasks are run after the page has been generated. This means there is less time for the tasks to be run before various server timeouts are reached (for example, PHP execution timeout). If this happens, the logs (see [Section 12.4, "Concept: Log"](#)) will show error messages that cron is unable to complete.
  - There is a small *scalability* cost associated with the core Automated Cron module. This is because one of the web server's processes is occupied (and can't serve other web pages) until the cron maintenance tasks are complete.
3. If you want to use the core Automated Cron module, first make sure it is installed (it is installed with the core Standard install profile; see [Section 4.3, "Installing a Module"](#) if it is not installed).

Next, configure the module to control how frequently cron maintenance tasks are run. In the *Manage* administrative menu, navigate to *Configuration > System > Cron* (`admin/config/system/cron`). Select the desired interval from the *Run cron every* field under *Cron settings*, and click *Save configuration*.

The screenshot shows the 'Cron' administration page. At the top, there's a header bar with the title 'Cron' and a star icon. Below the header, the breadcrumb navigation shows 'Home > Administration > Configuration > System'. A text block states: 'Cron takes care of running periodic tasks like checking for updates and indexing content for search.' A large blue button labeled 'Run cron' is centered. Below it, a message says 'Last run: 9 minutes 46 seconds ago.' Another blue button labeled 'Run cron' is shown with the URL 'http://example.com/cron/fdDorHTYCRZ9LF16ZECBswWsC2DVHfb6dqSySfPMkGBjwsZPBb85Vhss6ZM12s4CA91aAIYsWg'. A section titled '▼ CRON SETTINGS' contains a checked checkbox for 'Detailed cron logging' with the note 'Run times of individual cron jobs will be written to watchdog'. It also includes a dropdown menu set to 'Run cron every 3 hours'. A link to 'reading the cron tutorial on drupal.org' is provided. At the bottom, a blue 'Save configuration' button is visible.

4. If you want to run cron maintenance tasks from outside the website, uninstall the core Automated Cron module (see [Section 4.4, "Uninstalling Unused Modules"](#)). Next, find the cron URL. This URL is shown in the *Status report* (see [Section 12.5, "Concept: Status Report"](#)), and in the *Cron* administration page (see previous step). The URL looks like this: <http://www.example.com/cron/0MgWtfB33FYbbQ5UAC3L0LL3RCOPT3RNUBZILLA0Nf1Re>

Whenever this URL is visited, cron maintenance tasks will run. Set up one of the following schedulers to access this URL regularly:

- [The Cron daemon](#) (Linux, OS X, Solaris, BSD)
- [Scheduled Tasks](#) (Windows)
- A cron SASS provider (software as a service)
- A cron manager provided by your web hosting provider (see the documentation provided by your provider)

## Related concepts

[Section 13.3, "Concept: Security and Regular Updates"](#)

## Videos

Configuring Cron Maintenance Tasks

[Configuring Cron Maintenance Tasks](#)

## Additional resources

- [Drush page "Running Drupal cron tasks from Drush"](#)
- [Drupal.org community documentation page "Setting up cron"](#)

### Attributions

Written and edited by [Dave Hansen-Lange](#) at [Advomatic](#), [Boris Doesborg](#), and [Jennifer Hodgdon](#).

## 13.3. Concept: Security and Regular Updates

### Prerequisite knowledge

- [Section 1.1, "Concept: Drupal as a Content Management System"](#)
- [Section 1.2, "Concept: Modules"](#)
- [Section 1.3, "Concept: Themes"](#)
- [Section 1.6, "Concept: The Drupal Project"](#)

### What are security updates?

Any software occasionally has bugs, and sometimes these bugs have security implications. When security bugs are fixed in the core software, modules, or themes that your site uses, they are released in a *security update*. You will need to apply security updates in order to keep your site secure. See [Section 13.4, "Keeping Track of Updates"](#) to learn how to be notified of security updates by email, and [Section 13.5, "Updating the Core Software"](#), [Section 13.6, "Updating a Module"](#), and [Section 13.7, "Updating a Theme"](#) to learn how to make updates.

### What is the security team?

The Drupal open-source project has a team of volunteers who track security-related bugs and release security updates. They also help other developers fix bugs, and maintain information for users on how to keep their websites secure. You can learn more about the security team and their practices and processes at the [Drupal.org Security Team](#) page.

### How are security bugs reported?

It is important that security problems be kept confidential until they are fixed, so that sites are less likely to be compromised before they can be secured. If you find a potential security problem in any of the software you downloaded from the [Drupal.org](#) website, follow the procedures on the [Drupal.org Security Team](#) page to report it.

### What are regular (non-security) updates?

The core software, modules, and themes also periodically have regular updates to add new features and fix bugs. These updates are less critical than security updates. As a general best

practice, updates should be applied as long as they do not cause problems with your site. Testing on a development copy of your site is always a good idea before applying updates on a live site. This is because some updates may include changes that are not compatible with the modules or themes on your site, or that will break a particular functionality on your site.

## Related topics

- [Section 13.4, "Keeping Track of Updates"](#)
- [Section 13.5, "Updating the Core Software"](#)
- [Section 13.6, "Updating a Module"](#)
- [Section 13.7, "Updating a Theme"](#)
- [Section 11.8, "Making a Development Site"](#)

## Additional resources

- [Drupal.org community documentation page "Securing your site"](#)
- ["Security advisories" on Drupal.org](#)
- [Drupal.org Security team](#)

## Attributions

Written and edited by [Boris Doesborg](#) and [Jennifer Hodgdon](#).

# 13.4. Keeping Track of Updates

## Goal

Keep your site safe and up-to-date by keeping up with the latest security updates.

## Prerequisite knowledge

[Section 13.3, "Concept: Security and Regular Updates"](#)

## Steps

There are a few different ways to receive notifications of security releases:

- In the *Manage* administrative menu, navigate to *Reports > Available updates > Settings*. Enter the email addresses to be notified when updates are available. You can also specify whether you want daily or weekly updates. Click *Save configuration*.
- Subscribe to the security announcements email list. To subscribe, log in to *Drupal.org*, go to your user profile page and subscribe to the security newsletter on the *Edit > My newsletters* tab.

- Follow @drupalsecurity on Twitter.
- Subscribe to RSS feeds for [core security updates](#), [contributed project updates](#) and [public service announcements](#).

## Related concepts

- [Section 13.3, "Concept: Security and Regular Updates"](#)
- [Section 13.5, "Updating the Core Software"](#)
- [Section 13.6, "Updating a Module"](#)
- [Section 13.7, "Updating a Theme"](#)

## Videos

Keeping Track of Updates

[Keeping Track of Updates](#)

## Additional resources

- ["Security advisories" on Drupal.org](#)
- [Drupal.org Security Team](#)
- [@drupalsecurity on Twitter](#)

## Attributions

Written by [Sarah German](#) at [Advomatic](#).

# 13.5. Updating the Core Software

## Goal

Update the core software, either through the administrative interface or by using Drush.

## Site prerequisites

- If you want to use Drush, Drush must be installed. See [Section 3.2, "Concept: Additional Tools"](#).
- If your site is live, you should test this process in a development environment before running it on your production site. See [Section 11.8, "Making a Development Site"](#).

## Steps

1. Make a complete backup of your site. Refer to [Section 12.3, "Concept: Data Backups"](#).

2. Open *settings.php* (*/sites/default/settings.php*) in any plain text editor. Find the line with the *\$settings[update\_free\_access]* variable. By default, it is set to "FALSE" due to security reasons. Change the setting to "TRUE":

```
$settings['update_free_access'] = TRUE;
```

3. Disable any caching technique (memcache, varnish, and so on) your application might be using.
4. Put your site in maintenance mode. See [Section 11.2, "Enabling and Disabling Maintenance Mode"](#).
5. If you are using Composer to manage dependencies, or using Git, skip the next six steps, and instead see [Section 11.9, "Using Composer and Git to Download Files"](#) for instructions on downloading updated files. Continue with the *update.php* step.
6. Download the tar.gz or zip file archive for the latest version of Drupal 8.x core from [Drupal.org Drupal Core Downloads](#). See [Section 3.3, "Preparing to Install"](#) for more details on how to find the latest version.
7. Upload the archive file to your web hosting server.
8. Extract the archive file to a temporary directory on your server (should be outside the directory where the site is hosted). Your hosting control panel's file manager should provide a way to extract the files. Or, if you have terminal access to your hosting server (running Linux), you can use a command like:

```
tar -xzf drupal-8.3.2.tar.gz
```

9. You can also use Drush to download the archive and extract it in one step, by navigating to the temporary directory on the server and entering this command:

```
drush dl drupal
```

10. In your site hosting directory, delete the *core* and *vendor* directories, and all files that are not in a subdirectory, including *.htaccess*, *composer.json*, and *autoload.php*. Don't delete custom and customized files because you may end up losing the custom functionality stored in them.
11. Copy the *core* and *vendor* directories and the non-custom/non-customized files that you deleted in the preceding step from the temporary directory to your site directory.
12. Run the *update.php* script using either of the following:
  - Visit <http://www.example.com/update.php> in your browser (where *www.example.com* is your site's URL). Click *Continue* in the first screen to run the updates and successfully complete the script.
  - Run the following Drush command: `drush updb`
13. If you get any error or warning, re-run the *update.php* script again till all the updates have been completed successfully.
14. Open *settings.php* (*/sites/default/settings.php*) in a text editor. Find the line with the *\$settings[update\_free\_access]* variable and update it to "FALSE":

```
$settings['update_free_access'] = FALSE;
```

15. Click *Administration pages* to return to the administration section of your site.

16. Take your site out of maintenance mode. See [Section 11.2, "Enabling and Disabling Maintenance Mode"](#).
17. Clear the cache. See [Section 12.2, "Clearing the Cache"](#).
18. Re-enable any caching technique you disabled at Step 3.
19. You should have the updated version running. You can verify the current version of your software by checking the *Status report* (see [Section 12.5, "Concept: Status Report"](#)).

## Expand your understanding

- [Section 3.2, "Concept: Additional Tools"](#)
- [Section 11.8, "Making a Development Site"](#)
- [Section 12.3, "Concept: Data Backups"](#)

## Related concepts

[Section 12.5, "Concept: Status Report"](#)

## Videos

Updating the Core Software

[Updating the Core Software](#)

## Additional resources

- ["Drupal Core Downloads" page on Drupal.org](#)
- ["Registry Rebuild" page on Drupal.org](#)
- The file /core/UPDATE.txt within your installation.

## Attributions

Written and edited by [Surendra Mohan](#), [Boris Doesborgh](#), and [Jojo Alphonso](#) at [Red Crackle](#).

## 13.6. Updating a Module

### Goal

Update a contributed module and run the *Database updates* script.

### Prerequisite knowledge

- [Section 13.3, "Concept: Security and Regular Updates"](#)

- [Section 13.1, "Concept: Cron"](#)

## Site prerequisites

- A contributed module has been installed and there is an update available for it. See [Section 11.3, "Downloading and Installing a Module from Drupal.org"](#) and [Section 13.4, "Keeping Track of Updates"](#).
- If your site is live, you should test this process in a development environment before running it on your production site. See [Section 11.8, "Making a Development Site"](#).
- You have created a full-site backup. See [Section 12.3, "Concept: Data Backups"](#).
- If you want to use the user interface, the core Update Manager module must be installed. See [Section 4.3, "Installing a Module"](#) for instructions on installing core modules.
- If you want to use Drush, Drush must be installed. See [Section 3.2, "Concept: Additional Tools"](#).

## Steps

Before you start, check for module-specific update instructions. This is typically necessary while updating modules that involve the usage of third-party libraries. Read and understand all module-specific requirements before proceeding with the updates. To find instructions, check the module's project page *Read Documentation* link.

To view further instructions, download the tar.gz or .zip file from the project page to your local computer. Unzip the file and look for *README.txt*, *INSTALL.txt*, and *UPGRADE.txt* that come with the module's installation file. Also, review the release notes on the project page by clicking the version number you're downloading.

**8.x-1.20** released 12 September 2017

✓ Recommended by the project's maintainer.  
Bug fixes, new features and code cleaning.  
↓ tar.gz (19.59 KB) | zip (29.87 KB)

Development version: [8.x-1.x-dev](#) updated 20 Oct 2017 at 17:09 UTC

Testing result: **PHP 5.5 & MySQL 5.5, D8.5 4 pass** [all results](#)

[View all releases](#)

You can use the administrative interface or Drush to update a contributed module. If you are updating a custom module rather than a contributed module, if you see a message saying *Installing modules and themes requires FTP access to your server*, or if the steps below do not work to obtain the new module files, follow the steps in [Section 11.6, "Manually Downloading Module or Theme Files"](#). You can then continue here with step 6 in the instructions for the administrative interface below.

## Using the administrative interface

1. Put your site in maintenance mode. See [Section 11.2, "Enabling and Disabling Maintenance Mode"](#).

2. In the *Manage* administrative menu, navigate to *Reports > Available updates > Update* ([admin/reports/updates/update](#)).
3. Find and check the module in the list. Click *Download these updates* for the module.

| <input type="checkbox"/> | NAME          | INSTALLED VERSION | RECOMMENDED VERSION                        |
|--------------------------|---------------|-------------------|--------------------------------------------|
| <input type="checkbox"/> | Admin Toolbar | 8.x-1.15          | 8.x-1.20 ( <a href="#">Release notes</a> ) |

[Download these updates](#)

4. Click *Continue*.
5. Click *Run database updates*. If you obtained the new module files manually, start with this step, and reach the database updates page by typing the URL `example.com/update.php` in your browser.
6. Click *Continue* and apply all updates. The database update scripts will be executed.
7. Click *Administration pages* to return to the administration section of your site.
8. Take your site out of maintenance mode. See [Section 11.2, "Enabling and Disabling Maintenance Mode"](#).
9. Clear the cache (refer to [Section 12.2, "Clearing the Cache"](#)).

## Using Drush

1. Find the project name for the module you wish to update. It is the last segment of the module's project page URL. For example, if the project URL is [https://www.drupal.org/project/admin\\_toolbar](https://www.drupal.org/project/admin_toolbar), the project name is "admin\_toolbar".
2. Run the following Drush command, giving the project name (for example, `admin_toolbar`) as a parameter (if you have more than one module to update, add the additional module project names to the end of the command, separated by spaces):

```
drush up admin_toolbar
```

3. Follow the instructions on the screen.

## Expand your understanding

- Review the site log (refer to [Section 12.4, "Concept: Log"](#)) once the updates are complete to check for errors.
- [Section 13.7, "Updating a Theme"](#)

## Videos

Updating a Module

[Updating a Module](#)

## Additional resources

[Drupal.org community documentation page "Updating modules"](#)

### Attributions

Adapted by [Boris Doesborgh](#), and [Sarah German](#) at [Advomatic](#), from ["Updating modules"](#), copyright 2000-2017 by the individual contributors to the [Drupal Community Documentation](#).

## 13.7. Updating a Theme

### Goal

Update a contributed theme on your site and run the *Database Updates* script.

### Prerequisite knowledge

- [Section 13.3, "Concept: Security and Regular Updates"](#)
- [Section 13.1, "Concept: Cron"](#)

### Site prerequisites

- A contributed theme has been installed and there is an update available for it. See [Section 11.5, "Downloading and Installing a Theme from Drupal.org"](#) and [Section 13.4, "Keeping Track of Updates"](#).
- If your site is live, you should test this process in a development environment before running it on your production site. See [Section 11.8, "Making a Development Site"](#).
- You have created a full site backup. See [Section 12.3, "Concept: Data Backups"](#).
- If you want to use the user interface, the core Update Manager module must be installed. See [Section 4.3, "Installing a Module"](#) for instructions on installing core modules.
- If you want to use Drush, Drush must be installed. See [Section 3.2, "Concept: Additional Tools"](#).

### Steps

You can use the administrative interface or Drush to update a contributed theme. If you are updating a custom theme rather than a contributed theme, if you see a message saying

Installing modules and themes requires FTP access to your server, or if the steps below do not work to obtain the new theme files, follow the steps in [Section 11.6, "Manually Downloading Module or Theme Files"](#), and then continue with step 6 in the instructions for administrative interface below.

## Using the administrative interface

1. Put your site in maintenance mode. See [Section 11.2, "Enabling and Disabling Maintenance Mode"](#).
2. In the *Manage* administrative menu, navigate to *Reports > Available updates > Update* (`admin/reports/updates/update`).
3. Find and check the theme in the list. Click *Download these updates* for the theme.

The screenshot shows the 'Update' section of the Drupal administration interface. At the top, there are three tabs: 'List' (selected), 'Update' (disabled), and 'Settings'. Below the tabs, the breadcrumb navigation shows: Home > Administration > Reports > Available updates. A message indicates 'Last checked: 1 minute 48 seconds ago (Check manually)'. A table lists available updates, with one row for the 'MAYO (Theme)' which is currently installed at version 8.x-1.2 and recommended at version 8.x-1.3. A link 'Release notes' is provided for the recommended version. At the bottom of the table is a large button labeled 'Download these updates'.

| <input type="checkbox"/> | NAME         | INSTALLED VERSION | RECOMMENDED VERSION     |
|--------------------------|--------------|-------------------|-------------------------|
| <input type="checkbox"/> | MAYO (Theme) | 8.x-1.2           | 8.x-1.3 (Release notes) |

4. Click *Continue*.
5. Click *Run database updates*. If you obtained the new theme files manually, start with this step, and reach the database updates page by typing the URL `example.com/update.php` in your browser.
6. Click *Continue* to run the updates. The database update scripts will be executed.
7. Click *Administration pages* to return to the administration section of your site.
8. Take your site out of maintenance mode. See [Section 11.2, "Enabling and Disabling Maintenance Mode"](#).
9. Clear the Drupal cache (refer to [Section 12.2, "Clearing the Cache"](#)).

## Using Drush

1. Find the project name for the theme you wish to update, which is the last segment of the theme's project page URL. For example, if the project URL is `https://www.drupal.org/project/mayo`, the project name is "mayo".
2. Run the following Drush command, giving the project name (for example, `mayo`) as a parameter:

```
drush up mayo
```

3. Follow the instructions on the screen.

## Expand your understanding

- Review the site log, see [Section 12.4, "Concept: Log"](#), once the updates are complete to check for errors.
- [Section 13.6, "Updating a Module"](#)

## Videos

Updating a Theme

[Updating a Theme](#)

## Attributions

Written by [Boris Doesborg](#).

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# Chapter 14. Final Thoughts

## 14.1. Connecting with the Community

### Prerequisite knowledge

[Section 1.6, "Concept: The Drupal Project"](#)

### How can you connect with the community?

The Drupal project has a world-wide community of developers and users. One of the best ways to improve your knowledge of the platform is to connect with others that are using it, and get involved in the open-source community. There are many ways that you can get started:

Attend an event

There are both regional and international Drupal events held around the world. See the "[DrupalCon](#)" page on [Drupal.org](#) to find international events, and the "[Event Calendar](#)" on [groups.drupal.org](#) or [drupical.com](#) to find regional events.

Join a local group

There are Drupal user groups all around the world. Many of them have regular meetings, which you can attend to learn more about Drupal and connect to other Drupal users. Find local user groups on [groups.drupal.org](#).

Participate in a topical or language group

There are also interest groups for a wide range of topics, which have on-line discussion forums. Find topical groups on [groups.drupal.org](#). Many languages have their own websites too; you can find them on the "[Language-specific communities](#)" page on [Drupal.org](#).

Chat online

The Drupal project uses IRC for on-line chatting. There are regional, topical, and general-purpose chat groups available. Find out more on the "[IRC](#)" page on [Drupal.org](#).

Report a problem

See below.

Contribute

You can contribute your time and expertise to the community in many ways, such as:

- Developing modules or themes. See the "[Contribute to Development page on Drupal.org](#)", or improving them (using the issue queues for existing projects).
- Translating the user interface. See [localize.drupal.org](#).
- Writing documentation. See "[Contribute to Documentation on Drupal.org](#)".
- Answer Support questions. See [Section 14.2, "Getting Support"](#).

## How can you report a problem or suggest a feature?

Each project within the community (such as the Drupal Core project for the base software, and projects for each contributed theme and module) uses *issues* to keep track of software bugs and plans for new features. You can participate by creating a bug report when you find a problem, creating a feature request, or commenting on existing issues. Search before creating an issue, to make sure that the problem or feature has not already been reported or requested. See the [Drupal.org page "Use the issue queue"](#) and the [Drupal.org page "Reporting a problem"](#) for more information.

If you find a problem that you believe is related to security, such as a cross-site scripting vulnerability, do not report it in the standard issue queue. Instead, report it to the security team. See the [Drupal.org page "How to report a security issue"](#) for details.

## Related topics

[Section 14.2, "Getting Support"](#)

## Additional resources

- ["Code of Conduct" on Drupal.org](#)
- ["Event Calendar" on groups.drupal.org or drupical.com](#)
- ["Where is the Drupal Community?" page on Drupal.org](#)
- [groups.drupal.org](#)
- ["IRC" page on Drupal.org](#)
- ["Ways to get involved" page on Drupal.org](#)
- [Drupal.org page "Why get involved?"](#)
- [Drupal.org page "Contributor tasks"](#)
- [Drupal.org page "Use the issue queue"](#)
- [Drupal.org page "Reporting a problem"](#)
- [Drupal.org page "How to report a security issue"](#)

## Attributions

Written by [Jennifer Hodgdon](#), and [Joe Shindelar](#) at [Drupalize.Me](#).

## 14.2. Getting Support

### Prerequisite knowledge

- [Section 1.6, "Concept: The Drupal Project"](#)
- [Section 14.1, "Connecting with the Community"](#)

### Where can you find support?

The Drupal project is open-source, so if you have questions about or problems with the software, your options for finding answers and fixes are somewhat different from what they would be for commercial software.

There are several options for free support provided by community volunteers. First, some IRC channels, local groups, and language communities encourage support questions, through on-line chat, in-person meetings, or websites (find out more about these on [Section 14.1, "Connecting with the Community"](#)).

Second, some (but not all) contributed module, distribution, and theme projects encourage you to post support requests in issues. Generally, projects that have a very large number of users do not allow support requests in their issues (Drupal Core is in that category), while projects with a smaller number of users welcome the occasional support question. Be respectful of developer time and read the documentation for the project before posting a question in an issue. On the other hand, all projects encourage you to use issues to report problems and bugs; see [Section 14.1, "Connecting with the Community"](#) to learn more about that.

In addition to those resources, the following sites provide free forums where volunteers answer support questions about Drupal:

- The [Drupal.org Forums](#)
- ["Drupal Answers" on StackExchange](#)

If you prefer to pay for support (presumably in exchange for more extensive service or better availability), you can find service providers in the ["Drupal Marketplace" on Drupal.org](#).

### Related topics

- [Section 14.3, "Learning More"](#)
- [Section 14.1, "Connecting with the Community"](#)

### Additional resources

- ["Support" page on Drupal.org](#)
- ["Drupal Marketplace" on Drupal.org](#)

- The [Drupal.org Forums](#)
- ["Drupal Answers" on StackExchange](#)

## Attributions

Written by [Jennifer Hodgdon](#).

## 14.3. Learning More

### Prerequisite knowledge

- [Section 1.6, "Concept: The Drupal Project"](#)
- [Section 14.1, "Connecting with the Community"](#)

### Where can you go to learn more?

The following resources should prove useful to you, as you continue to advance your skills:

#### ["Drupal Community Documentation" section on Drupal.org](#)

Wiki-like documentation contributed by the Drupal community, ranging from basic to advanced, about all aspects of Drupal (site building and administration, theming, development, and contributed modules).

#### [api.drupal.org](#)

Reference documentation for programmers about the Drupal API.

#### ["Drupal Planet" page on Drupal.org](#)

An aggregation of blog posts about Drupal from around the web, posted by blogging members of the Drupal community who have applied for inclusion. Topics range from programming to site building to Drupal news.

#### Groups, events, and meetups

See [Section 14.1, "Connecting with the Community"](#) for more about topical, regional, and language groups, as well as local, regional, and international events.

#### ["Training Marketplace" page on Drupal.org](#)

The Marketplace lists paid training providers. For free training, check whether events include training sessions; there are also free or very low-cost training events listed on the ["Global Training Days" page on Drupal.org](#).

#### Support sites

See [Section 14.2, "Getting Support"](#) to locate support forums; searching them can be useful for learning about specific topics.

## Attributions

Written by [Jennifer Hodgdon](#), and [Joe Shindelar](#) at [Drupalize.Me](#).

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# Glossary

## Ajax

A web technology used to exchange data with a server to dynamically update parts of a web page (for example, forms) without needing entire page reloads.

## Alias

A user-friendly name to replace the internal [path](#) that the system assigns to a URL on the site. For example, you might assign an alias of `/about` to the About page on your site, to replace the internal path `/node/5`. This would give the page a URL of `http://example.com/about` instead of `http://example.com/node/5`. See [Section 5.1, "Concept: Paths, Aliases, and URLs"](#) for more information.

## Anonymous

A person ([user](#)) interacting with the site who is not logged in. See [Section 7.1, "Concept: Users, Roles, and Permissions"](#) for more information.

## Block

A chunk of [content](#) (text, images, links, etc.) that can be displayed on a page of a site. Blocks are displayed in [regions](#). See [Section 8.1, "Concept: Blocks"](#) for more information.

## Breakpoint

Breakpoints are used to separate the height or width of browser screens, printers, and other media output types into steps. A [responsive](#) site adjusts its presentation at these breakpoints. See [Section 6.14, "Concept: Responsive Image Styles"](#) for more information.

## Bundle

Synonym for [Entity subtype](#).

## Cache

The site's internal cache stores the output of time-consuming calculations, such as computing output for an HTML page request, and then retrieves them instead of recalculating the next time they are needed. External caching systems can also be used on the web server to speed up a site's response. See [Section 12.1, "Concept: Cache"](#) for more information on the internal cache.

## CMS

Acronym for [Content Management System](#).

## Configuration

Information about your site that is not [content](#), and is meant to be more permanent than [state](#) information, such as the name of your site, the [content types](#) and [views](#) you have defined, etc. See [Section 1.5, "Concept: Types of Data"](#) for more information.

### Content

Information meant to be displayed on your site, such as text, images, downloads, etc. See also [Configuration](#) and [State](#). See [Section 1.5, "Concept: Types of Data"](#) for more information.

### Content item

An item of [content](#) that is typically meant to be displayed as the main content of a page on your site. This is an [entity type](#). See [Section 2.3, "Concept: Content Entities and Fields"](#) for more information.

### Content Management System (CMS)

A collection of tools designed to allow the creation, modification, organization, search, retrieval and removal of information on a website. See [Section 1.1, "Concept: Drupal as a Content Management System"](#) for more information.

### Content type

An [entity subtype](#) for the [content item entity type](#). Each content type is used for some particular purpose on the site, and each has its own fields. For example, a site for a farmers market might have a content type for simple pages, and another for a vendor listing page. See [Section 2.3, "Concept: Content Entities and Fields"](#) for more information.

### Contextual link

A link to an administrative page for editing or configuring a feature of the site, shown in the context where that feature is displayed. Example: a link to configure a [menu](#) that is shown when you hover your mouse over the menu. See [Section 4.1, "Concept: Administrative Overview"](#) for more information.

### Contributed

[Modules](#), [themes](#), and [distributions](#) that are not part of the [Drupal core](#) download, and that can be downloaded separately from the [Drupal.org](#) website.

### Cron

On some operating systems, *cron* is a command scheduler application that executes commands or scripts periodically. Your site defines periodic tasks, also known as cron tasks, that need to be triggered either by an operating system cron scheduler, or internally. See [Section 13.1, "Concept: Cron"](#) for more information.

### Distribution

A single download that provides a shortcut for setting up a specific type of site, such as a website for a club or for e-commerce. A distribution contains [Drupal core](#), along with [contributed modules](#) and/or [themes](#); many distributions also pre-configure the site or even create sample content upon installation. See [Section 1.4, "Concept: Distributions"](#) for more information.

### Drupal core

The files, themes, profiles, and modules included with the standard project software download. See [Section 1.1, "Concept: Drupal as a Content Management System"](#) for more information.

### Entity

An item of either [content](#) or [configuration](#) data, although in common usage, the term often refers to content entities. Examples include [content items](#), custom [blocks](#), [taxonomy](#)

[terms](#), and definitions of [content types](#); the first three are content entities, and the last is a configuration entity. See also [Entity type](#), [Entity subtype](#), and [Field](#). See [Section 2.3, "Concept: Content Entities and Fields"](#) for more information.

### Entity subtype

Within a [content entity type](#), a grouping of entities that share the same [fields](#). For example, within the [content item](#) entity type, a farmers market site might have subtypes (known as [content types](#)) for static pages and vendor pages, each with its own group of fields. You may also see the term *bundle* used (especially in programmer documentation) as a synonym of entity subtype. See [Section 2.3, "Concept: Content Entities and Fields"](#) for more information.

### Entity type

The overall type of an [entity](#); in common usage, it is only applied to a [content](#) entity. Examples include [content types](#), [taxonomy terms](#), and custom [blocks](#). See [Section 2.3, "Concept: Content Entities and Fields"](#) for more information.

### Field

Data of a certain type that is attached to a [content entity](#). For instance, on a farmers market site's vendor content type, you might have fields for an image, the vendor description, and a [taxonomy term](#). See [Section 2.3, "Concept: Content Entities and Fields"](#) for more information.

### Field bundle

Synonym for [Entity subtype](#).

### Field formatter

[Configuration](#) that defines how the data in a [field](#) is displayed. For example, a text field could be displayed with a prefix and/or suffix, and it could have its HTML tags stripped out or limited. See also [View mode](#) and [Field widget](#). See [Section 6.10, "Concept: View Modes and Formatters"](#) for more information.

### Field widget

[Configuration](#) that defines how someone can enter or edit data for a [field](#) on a data entry form. For example, a text field could use a single-line or multi-line entry box, and there could be a setting for the size of the box. See also [Field formatter](#). See [Section 6.8, "Concept: Forms and Widgets"](#) for more information.

### Formatter

See [Field formatter](#).

### FOSS

Acronym for *Free and Open Source Software*, meaning software that is developed by a community of people and released under a non-commercial license. See also [GPL](#). See [Section 1.6, "Concept: The Drupal Project"](#) for more information.

### GPL

Acronym for the *GNU General Public License*, a non-commercial software license. All software downloaded from the [Drupal.org](#) website is licensed under the "[GNU General Public License, version 2](#)". See also [FOSS](#). See [Section 1.7, "Concept: Drupal Licensing"](#) for more information.

### Image style

A set of processing steps that transform a base image into a new image; typical processing includes scaling and cropping. See [Section 6.12, "Concept: Image Styles"](#) for more information.

### LAMP

Acronym for *Linux, Apache, MySQL, and PHP*: the software on the web server that the scripts commonly run on (although it can use other operating systems, web servers, and databases). See [Section 3.1, "Concept: Server Requirements"](#) for more information.

### Log

A list of recorded events on the site, such as usage data, performance data, errors, warnings, and operational information. See [Section 12.4, "Concept: Log"](#) for more information.

### Menu

A set of links used for navigation on a site, which may be arranged in a hierarchy. See [Section 5.6, "Concept: Menu"](#) for more information.

### Module

Software (usually PHP, JavaScript, and/or CSS) that extends site features and adds functionality. The Drupal project distinguishes between [core](#) and [contributed](#) modules. See [Section 1.2, "Concept: Modules"](#) for more information.

### Path

The unique, last part of the internal URL that the system assigns to a page on the site, which can be a visitor-facing page or an administrative page. For example, the internal URL for the About page on your site might be <http://example.com/node/5>, and in this case, the path is *node/5*. See also [Alias](#). See [Section 5.1, "Concept: Paths, Aliases, and URLs"](#) for more information.

### Permission

The ability to perform some action on the site, such as editing a particular type of [content](#), or viewing user profiles. See also [Role](#). See [Section 7.1, "Concept: Users, Roles, and Permissions"](#) for more information.

### Reference field

A [field](#) that represents a relationship between an [entity](#) and one or more other entities, which may be the same [entity type](#) or a different type. For example, on a farmers market site, a recipe content item might have a reference field to the vendor (also a content item) that posted the recipe. [Taxonomy term](#) fields are also reference fields. See [Section 6.4, "Concept: Reference Fields"](#) for more information.

### Region

A defined area of a page where [content](#) can be placed, such as the header, footer, main content area, left sidebar, etc. Regions are defined by [themes](#), and the content displayed in each region is contained in [blocks](#). See [Section 2.1, "Concept: Regions in a Theme"](#) for more information.

### Responsive

A site or [theme](#) is said to be responsive if it adjusts its presentation in response to the size of the browser screen, printer, or other media output type. See also [Breakpoint](#). See [Section 6.14, "Concept: Responsive Image Styles"](#) for more information.

### Revision

A record of the past or present state of a [content entity](#), as it is edited over time. See [Section 2.6, "Concept: Editorial Workflow"](#) for more information.

### Role

A named set of [permissions](#) that can be applied to a [user account](#). See [Section 7.1, "Concept: Users, Roles, and Permissions"](#) for more information.

### Security update

An [update](#) that fixes a security-related bug, such as a hacking vulnerability. See [Section 13.3, "Concept: Security and Regular Updates"](#) for more information.

### State

Information of a temporary nature about the current state of your site, such as the time when [cron](#) was last run, etc. See also [Content](#) and [Configuration](#). See [Section 1.5, "Concept: Types of Data"](#) for more information.

### Taxonomy

The process of classifying [content](#). See [Section 6.5, "Concept: Taxonomy"](#) for more information.

### Taxonomy term

A term used to classify [content](#), such as a tag or a category. See also [Vocabulary](#). See [Section 6.5, "Concept: Taxonomy"](#) for more information.

### Text format

[Configuration](#) that defines the processing that happens to user-entered text before it is shown in the browser. This might include stripping or limiting HTML tags, or turning URLs into links. See [Section 6.15, "Concept: Text Formats and Editors"](#) for more information.

### Theme

Software and asset files (images, CSS, PHP code, and/or templates) that determine the style and layout of the site. The Drupal project distinguishes between [core](#) and [contributed](#) themes. See [Section 1.3, "Concept: Themes"](#) for more information.

### UI

Acronym for [User Interface](#).

### Update

A newer version of your site's software, either [Drupal core](#) or a [module](#) or [theme](#). See also [Security update](#). See [Section 13.3, "Concept: Security and Regular Updates"](#) for more information.

### User

A person interacting with the site, either logged-in or [anonymous](#). See [Section 7.1, "Concept: Users, Roles, and Permissions"](#) for more information.

### User interface

The text, styles, and images that are visible on a site, separated logically into the user interface for site visitors and the administrative user interface.

### User one (User 1)

The initial [user](#) account that is created when you install the site (whose ID number is 1). It automatically has all [permissions](#), even if it is not assigned an administrative [role](#). See [Section 7.2, "Concept: The User 1 Account"](#) for more information.

### View

A formatted listing of data; typically, the data comes from [content entities](#). For example, on a farmers market site, you might create a [content item](#) for each vendor. You could then make view that generates a listing page that shows a thumbnail image and short description of each vendor, linking to the full-page content item. Using the same data, you could also make a view that generates a new vendors block, which would show information from the most recently added vendors. See [Section 2.4, "Concept: Modular Content"](#) for more information.

### View mode

A set of [field formatter configuration](#) for all of the [fields](#) of a [content entity](#), some of which may be hidden. Each [entity subtype](#) can have one or more view modes defined; for example, [content types](#) typically have *Full* and *Teaser* view modes, where the *Teaser* view mode displays fewer or trimmed-down fields. See [Section 6.10, "Concept: View Modes and Formatters"](#) for more information.

### Vocabulary

A group of [taxonomy terms](#) to choose from when classifying [content](#) in a particular way, such as the list of all of the vendor categories on a farmers market site. Technically, vocabularies are the [entity subtype](#) for the taxonomy term [entity type](#). See [Section 6.5, "Concept: Taxonomy"](#) for more information.

### Widget

See [Field widget](#).

### Wizard

A web form that allows you to fill in a few values, and creates something with sensible defaults based on the values you chose. For example, there are wizards for creating [views](#) of different types. See [Section 9.3, "Creating a Content List View"](#) for more information.

### WYSIWYG

Acronym for *What You See is What You Get*, meaning a method for editing [content](#) where what you see on the editing screen closely resembles the final product. See [Section 6.16, "Configuring Text Formats and Editors"](#) for more information.

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# Appendix A. Appendix

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