

University of Minnesota

Self-Help Guide

GitHub: Using GitHub for Enterprise Drupal

This Self-Help Guide is intended to assist developers that are going to develop within the University of Minnesota Drupal environment. There are three primary tools that are needed: Git, GitHub, and UMN Drupal (which consists of: Docker and DDEV to be able to run Drupal locally; a copy of the UMN Drupal codebase; a copy of your site's database and files).

Note: The University is currently transitioning from [GitHub Enterprise Server \(GHES\)](#) to [GitHub Enterprise Cloud \(GHEC\)](#). The OIT Drupal platform currently supports both. See the [Drupal Github Cloud Transition Guide](#) for more information.

Set Up Git and GitHub

Overview of UMN GitHub and Git

Getting Started with GitHub

Overview of UMN GHES ([github.umn.edu](https://github.com))

[/services-technologies/how-tos/github-service-summary](#)

Overview of UMN GHEC

<https://github-docs.devex.oit.umn.edu/>

Learn About Git

Getting Started with Git

<http://git-scm.com/book/en/v2/Getting-Started-About-Version-Control>

Pro Git book

<https://git-scm.com/book/en/v2>

No-cost, beginner-level course

Git Basic Concept Course

<https://www.codeschool.com/courses/try-git>

Paid, beginner-level course with free trial option

Set Up Git and GitHub

Git

Getting Started - Installing Git

<http://git-scm.com/book/en/v2/Getting-Started-Installing-Git>

Git Cheat Sheet

<https://training.github.com/downloads/github-git-cheat-sheet.pdf>

UMN GitHub

Create an account on UMN GHES (github.umn.edu)

<https://github.umn.edu/login>

Errors Accessing UMN GHES (github.umn.edu)

</services-technologies/how-tos/github-service-summary>

Onboard to UMN GHEC

<https://z.umn.edu/drupal-ghec-transition>

GHEC-only: Configure Github for Your Organization

How to Create an Organization in Github

<https://help.github.com/articles/creating-a-new-organization-account/>

How to Create an Organization in Github from Scratch

<https://help.github.com/articles/creating-a-new-organization-from-scratch/>

Adding Other Users to Your Organization

<https://help.github.com/articles/can-i-create-accounts-for-people-in-my-organiz...>

Use Secure Shell (SSH)

Generating SSH Keys to Simplify Logging In to Github

<https://help.github.com/articles/generating-ssh-keys/>

What is Secure Shell (SSH)?

</services-technologies/resources/use-secure-shell-ssh>

Docker, DDEV & UMN Drupal

Configure a Drupal Enterprise Local Environment

Set up a Drupal Enterprise Local Environment

Set up a Drupal Local Environment

</services-technologies/how-tos/drupal-enterprise-set-local-environment>

Set Up UMN Drupal to Run Locally

Configure Your UMN Drupal Code with Your UMN GitHub Repository

Code Workflow in UMN Drupal

</services-technologies/how-tos/drupal-enterprise-code-workflow>

Push Changes to Your Repository Using Git Shell

</services-technologies/how-tos/drupal-enterprise-updating-your-site>

Manage Your Drupal Site's Code

Working with Git

Managing Code with Git

Create and Manage GitHub Branches in github.umn.edu

</services-technologies/how-tos/drupal-create-manage-github-branches>

Push your code to GitHub

<https://guides.github.com/introduction/getting-your-project-on-github/#pushit>

Pull code from GitHub

<https://guides.github.com/introduction/getting-your-project-on-github/#pullit>

Working with Branches

Create and Manage GitHub Branches in github.umn.edu

[/services-technologies/how-tos/drupal-create-manage-github-branches](#)

Create a Branch

[http://git-scm.com/book/en/v2/Git-Branching-Basic-Branching-and-Merging](#)

Move Between Branches

[http://git-scm.com/docs/git-checkout](#)

Merge Code Across Branches

[http://git-scm.com/docs/git-merge](#)

Resolving Merge Conflicts from the command line

[https://help.github.com/articles/resolving-a-merge-conflict-from-the-command-li...](#)

Git Branches in a Nutshell

[https://git-scm.com/book/en/v2/Git-Branching-Branches-in-a-Nutshell](#)

Git Essentials Merging Branches

[https://git-scm.com/book/en/v2/Git-Branching-Basic-Branching-and-Merging](#)

Handling Conflicts

Handling and Avoiding Conflicts in Git

[http://weblog.masukomi.org/2008/07/12/handling-and-avoiding-conflicts-in-git](#)

Resolving Merge Conflicts from the command line

[https://help.github.com/articles/resolving-a-merge-conflict-from-the-command-li...](#)

Git Inspection and Comparison

Git Status Command

[http://git-scm.com/docs/git-status](#)

Git Log Command

[http://git-scm.com/docs/git-log](#)

Git Diff Command

[http://git-scm.com/docs/git-diff](#)

Best Practices for a Git Message

5 Useful Tips For A Better Commit Message

[http://robots.thoughtbot.com/5-useful-tips-for-a-better-commit-message](#)

Writing good commit messages

[https://github.com/erlang/otp/wiki/Writing-good-commit-messages](#)

Command Line Interface

Windows Command Prompt in 15 Minutes

<http://www.cs.princeton.edu/courses/archive/spr05/cos126/cmd-prompt.html>

Introduction to the Mac OS X Command Line

<http://blog.teamtreehouse.com/introduction-to-the-mac-os-x-command-line>

Using Gitignore

Gitignore Documentation

<http://git-scm.com/docs/gitignore>

Using Gitignore

<https://www.atlassian.com/git/tutorials/saving-changes/gitignore>

Get Your Code to Your Online Drupal Site (aka Build Plans)

Deploying Drupal Code

Code Workflow in UMN Drupal

</services-technologies/how-tos/drupal-enterprise-code-workflow>

Pushing Changes to Your Repository

</drupal-enterprise-78-push-changes-your>