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)
/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

GHES-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)

What is Secure Shell (SSH)?
/services-technologies/resources/use-secure-shell-ssh

Generating SSH Keys to Simplify Logging In to Github
https://help.github.com/articles/generating-ssh-keys/
Authorize your SSH key within your Github Enterprise Cloud account to use SSO
https://docs.github.com/en/enterprise-cloud@latest/authentication/authenticatin...

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