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 OIT Drupal platform does not currently support site owners storing their site repositories on the [UMN Github Cloud](http://github.umn.edu) instance. We will send an announcement to our [Drupal Enterprise Platform Google Group](http://groups.google.com) when that option becomes available. Presently, site owners must store their site repositories in the University On-Premise instance [Github.umn.edu](http://github.umn.edu).

Set Up Git and GitHub

Overview of Github.umn.edu and Git

Getting Started with GitHub

Overview of github.umn.edu
/services-technologies/how-tos/github-service-summary

Learn About Git

Getting Started with Git
Pro Git book
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
Git Cheat Sheet

UMN GitHub

Get Account from UMN Github
https://github.umn.edu/login
Errors Accessing UMN Github
/services-technologies/how-tos/github-service-summary

Configure Your Github

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-organization/
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
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
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

Git Essentials Merging Branches

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
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