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 instance. We will send an announcement to our Drupal Enterprise Platform Google Group when that option becomes available. Presently, site owners must store their site repositories in the University On-Premise instance 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-organiz...
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
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