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: Acquia Dev Desktop to be able to run Drupal locally; a copy of the UMN Drupal codebase; a copy of your site's database and files).

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
Git Essentials Training 2019
No-cost, beginner-level course
GitHub for Web Designers
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
Acquia Dev Desktop & UMN Drupal

Configure a Drupal Enterprise 7 Local Environment

Acquia Dev Desktop

Download Acquia Dev desktop
https://www.acquia.com/downloads
Configure Acquia Dev Desktop
/node/18416

Create a New UMN Drupal Site on Your Computer

Install Drupal Locally
/node/18416
Log in to Your Local Drupal Site
/services-technologies/how-tos/drupal-enterprise-7-logging-in-your
Get a Copy of Your Site's Database and Files
/services-technologies/how-tos/drupal-enterprise-7-get-copy-your-sites

Configure a Drupal Enterprise 8 Local Environment

Set up a Drupal Enterprise 8 Local Environment

Set up a Drupal 8 Local Environment
/services-technologies/how-tos/drupal-8-drupal-9-set-local-environment

Set Up UMN Drupal to Run Locally

Configure Your UMN Drupal Code with Your UMN GitHub Repository

Install UMN Drupal Locally to Work with UMN GIT Repository
/node/18416
Code Workflow in UMN Drupal
**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 Essentials Branches
https://www.linkedin.com/learning/git-branches-merges-and-remotes/branching-ove...

Git Essentials Merging Branches
https://www.linkedin.com/learning/git-branches-merges-and-remotes/merge-code?u=...
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.linkedin.com/learning/git-essential-training-the-basics/use-gitigno...
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-7-8-code-workflow
Pushing Changes to Your Repository
/drupal-enterprise-78-push-changes-your