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: 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
https://www.linkedin.com/learning/github-for-web-designers?u=42740356&auth=true
No-cost, intermediate-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
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
/services-technologies/how-tos/d7-obsolete-retired-drupal-enterprise-installing...

Create a New UMN Drupal Site on Your Computer

Install Drupal Locally
/services-technologies/how-tos/d7-obsolete-retired-drupal-enterprise-installing...
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
/services-technologies/how-tos/d7-obsolete-retired-drupal-enterprise-installing...
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-enterprise-7-8-push-changes-your
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-enterprise-7-8-push-changes-your
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  

**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-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-7-8-code-workflow
Pushing Changes to Your Repository
/drupal-enterprise-78-push-changes-your