

Week 2:

File Management and Version Control



INFO/CS 1300: Course Map

Topic Area	Dates	Goals	Assignments
Introduction and Infrastructure	8/24 – 8/26	1-5	All
HTML & Structure	8/29 – 9/9	1,2	
CSS & Presentation	9/12 – 9/30	2	Brief Assignments
Client-Side Scripting: JavaScript & jQuery	10/3 – 10/21	3	
Server-Side Scripting: PHP	10/24 – 11/4	3	
Basic User Testing	11/7 – 11/18	4	Final Project
Taking a Site Live	11/21 – 12/2	1-5	



Agenda

- **Enrollment update and section switches.**
- **Grades & regrades.**
 - Forms will be posted on Blackboard.
 - Please review the policies before submitting.
- **Assignment progress.**
- **File management and Version control:**
 - Git
 - Bitbucket



Assignment Progress

- **After Assignment 1:**
 - Know the origin of Web standards.
 - Create simple structural HTML.
 - Use basic version control.
- **Friday's lab will focus on Git and Bitbucket, i.e., version control.**



Version Control: Why Bother?

- Web development shops often employ multiple developers.
- Multiple (even single!) developers, multiple edits, multiple versions.
- We will use a partial feature set from Git, mainly for backup.



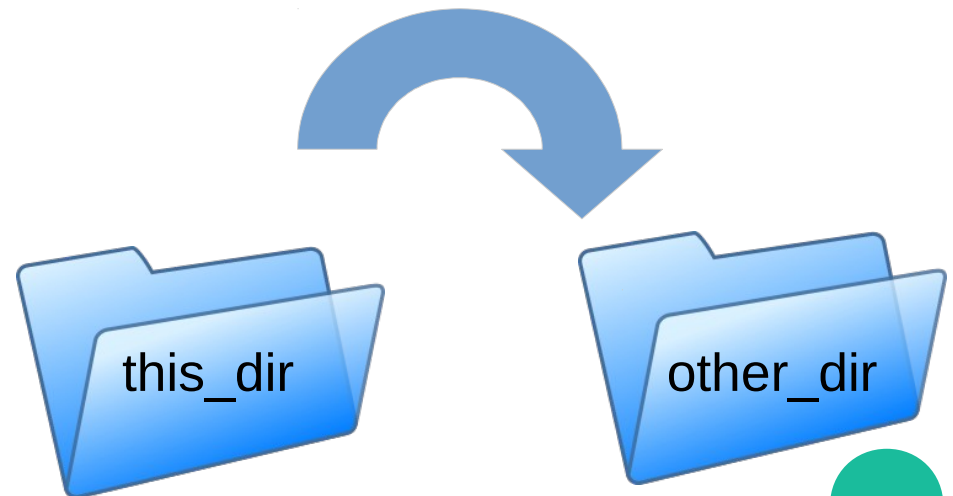
Git: General Description

- Creates a *repository*, or *repo*.
- Repo stored locally in a hidden directory (.git).
- Files similar to .zip archives.
- Files not meant to be human-readable.
- bash shell: command-line interface.
- GUI clients available.



Git/bash: Basic Shell Commands

- **pwd**: print working directory.
- **mkdir**: create new directory/folder.
- **ls**: list.
 - `ls -al`: list all file/directories in long form.
- **cd**: change directory.
- **Dot folders**:
 - `cd ../other_dir`:
up and over



Git: Basic Commands

- **init: create a repository**
 - Example: `git init 1300_sample`
- **add: add files to staging**
 - Example: `add .`
- **commit: adds file(-s) to local repo:**
 - Example: `commit -m "simple test repository"`
 - Note the comment.



Git: Basic Commands

- `git reset --hard`: restore from local repo.
- `git remote add origin [URL]`: set remote location.
 - Example: `git remote add origin https://StephenPaling@bitbucket.org/StephenPaling/1300_test.git`
- **Push: moves repo to remote location.**
 - Example: `git push -u origin --all`



Key Points

- Data management is a key component of professional development.
- Git allows the creation and maintenance of both local and remote repositories.
- Required for one assignment, good idea for every assignment.



To-Do List

- **Install Git.**
 - Include Git Bash Here option.
- **Register for Bitbucket.**



HTML: Attributes & CSS

- `div` = logical division of a page.
- `id` = unique element, i.e., one per page.
- `class` = can refer to multiple elements on same page.

