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8.30.21



### THIS WEEK (2)

#### Discussion / Share Work

#### Modern Web Development Clients & Servers Stacks Tools Languages: HTML / CSS

#### Github, Glthub Pages

#### The Terminal

#### Assignment 2

## Agenda

### **NEXTWEEK**(3)

Labor Day No Class

...but I recommend spending time working on Assignment 2 TBD.

## Objectives

- Understand the basics of clients and servers and their role on the Internet
- Understand what tools and technologies developers generally use to do their job
- Understand what HTML and CSS are and how to build a simple webpage from scratch
- Understand how to create a github repo, clone a repo, and push changes to a repo
- Understand how to deploy (publish) a basic website using Github Pages (project site)



# & SERVERS





The cloud refers to software and services that run on the Internet, instead of locally on your computer.





## Front end

Visible parts of website or app.















#### what does a web language relate to what a user sees?

Document Structure

Visual Language CSS (Layout, Identity, color, font) Javascript (magic ", transitions imovement)



#### we will talk about javascript next week



#### HTNL (Document Structure)

<html> <head> </head> <body> <h1>Hello World</h1> This is my website! </body> </html>



#### CSS (Look & Feel)

• • • <style> h1 { color: red; } p { color: #00FF00; } </style> • • •

## index.html

The most basic webpage ever consists of a single index.html file with html, head, and body tags in it.

<html> <head> </head> <body> </body> </html>

## index.html

Something slightly more advanced will have more tags and may include CSS inside the style tag.

<html> <head> </head> <style> h1 { color: red; } p { color: #00FF00; } </style> <body> <h1>Hello World</h1> This is my website! </body> </html>

## Language Resources









Tools we will setup:

- Text Editor: <u>Visual Studio Code aka VSCode</u>
- Local Development Server: <u>Live Server Extension</u>
- Version Control / Deployment: <u>Github, Github Pages</u> - Need to setup Github account
- Utilities: macOS terminal or Windows Git bash terminal

**OOS** 

## Terminal

#### macOS (Terminal)

Applications > Utilities > Terminal.app

Install Git:

Type git into the terminal. What happens? It may ask to install developer tools first. Once installed, you should see a list of options for the command.

### Windows (Git bash)

### Download and install 64bit Git for Windows

Git bash is a terminal emulator for Windows that offers a command line interface similar to macOS and Linux.

000 😭 rjduran — -bash — 97×50 Last login: Sun Aug 29 16:22:01 on ttys000 [~ \$ git usage: git [--version] [--help] [-C <path>] [-c <name>=<value>] [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path] [-p | --paginate | -P | --no-pager] [--no-replace-objects] [--bare] [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>] <command> [<args>] These are common Git commands used in various situations: start a working area (see also: git help tutorial) Clone a repository into a new directory clone Create an empty Git repository or reinitialize an existing one init work on the current change (see also: git help everyday) Add file contents to the index add Move or rename a file, a directory, or a symlink mν restore Restore working tree files Remove files from the working tree and from the index rm examine the history and state (see also: git help revisions) Use binary search to find the commit that introduced a bug bisect diff Show changes between commits, commit and working tree, etc Print lines matching a pattern grep Show commit logs log Show various types of objects show Show the working tree status status grow, mark and tweak your common history List, create, or delete branches branch Record changes to the repository commit Join two or more development histories together merge Reapply commits on top of another base tip rebase Reset current HEAD to the specified state reset Switch branches switch Create, list, delete or verify a tag object signed with GPG tag collaborate (see also: git help workflows) Download objects and refs from another repository fetch Fetch from and integrate with another repository or a local branch pull Update remote refs along with associated objects push 'git help -a' and 'git help -g' list available subcommands and some concept guides. See 'git help <command>' or 'git help <concept>' to read about a specific subcommand or concept. See 'git help git' for an overview of the system. **\$** ~



# 

## How to Use Github

1. Signup for a Github account. Choose a username that you want to type ALL THE TIME. I recommend something short and sweet like your name or initials or hacker username.

- 2. Create a repository
- 3. Clone a repository (git clone)
- 4. Made some edits to your source files using VSCode
- 5. Stage the changes (git add)
- 6. Commit the changes (git commit -m "message")
- 7. Push the changes (git push)
- 8. Repeat the process starting at #4





## Deploy (Publish)

Follow the process outlined at <u>https://pages.github.com/</u>. Be sure to choose the **"Project Site"** workflow and **"Start from scratch"**.

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# OLESTIONS?