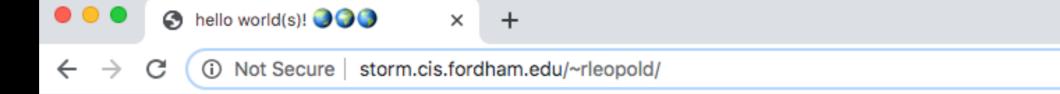
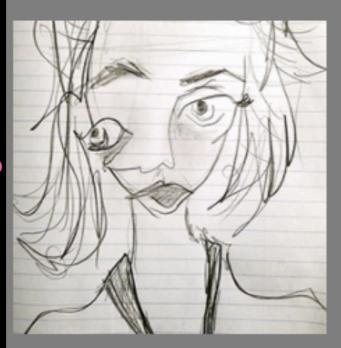
# Storm



#### professor rebecca (marks) leopold



#### What is Storm?

CISC 3300 - Internet + Web Programming:

- Sample Class Site
- Class Github Repo + Wikis:
  - Spring 2019 Lincoln Center
  - Spring 2019 Rose Hill

CISC 3300 - Information + Web Programming:

Fall 2018

## 

#### What is Git?

A version control system meant to make it easier to have multiple versions of code, sometimes across multiple developers or teams

At its most simple, git helps with the 'indexv1.html, indexv2.html, indexv3FINAL.html' problem

At its most complex, git allows developers to work together worldwide on code without stepping on each other's toes

# Github

#### Github is a service to host yr projects on the web.

Code is pushed (uploaded) from a local directory (folder) called a repository or rep.

example - our class site:

http://www.github.com/rebleo/webDevSpring2020

#### Git vs GitHub.com

git is a version control system that takes snapshots of your code at certain points in development

These snapshots are stored in a '**repo**', or '**repository**' on your local machine

GitHub.com is a website that hosts git repositories on a remote server + is available for all the web to see, copy + implement.

#### **Git Terminology**

repository - where data is managed. the directory containing your files.

local - the copy that exists on your machine, no one else can access this

remote - the copy in your github account, anyone with access to your github repo can access the remote instance (we won't be doing this!)

push - once you make changes to the local copy you \*upload the changes to the remote copy

**pull** - if someone else makes changes to the remote copy (we won't be doing this this semester)

clone a repository - download the entire codebase of the repo you can pull in changes + and push your own changes if you are given access

# Github pages

## github.io

easily allows you to host web pages using github servers + workflow

### url (uniform resource locator)

http://
yrUsername.github.io



yrUsername.github.io

## 



#### < HTML >

#### Hypertext Markup Langauge

Describes the content + structure of a web page;
NOT a programming language



Unlike other programming languages - HTML, CSS + JavaScript were authored for their outputs to **be read or seen** by human persons on glowing rectangular screens.

#### < HTML >

block vs. inline display

The key to understanding how **HTML** + **CSS** works is to imagine that there is an invisible box around every **HTML** element.

Block level elements are outlined w/ red + inline elements in green.

<br/>
<br/>
<h1>, <h2>, , <i> + <a><br/>
each create their own boxes<br/>
within it.

#### The Cottage Garden

The cottage garden is a distinct style of garden that uses an informal design, dense plantings, and a mixture of ornamental and edible plants.

The Cottage Garden originated in <u>England</u> and its history can be traced back for centuries, although they were re-invented in 1870's England, when stylized versions were formed as a reaction to the more structured and rigorously maintained <u>English estate gardens</u>.

The earliest cottage gardens were more practical than their modern descendants, with an emphasis on vegetables and herbs, along with some fruit trees.

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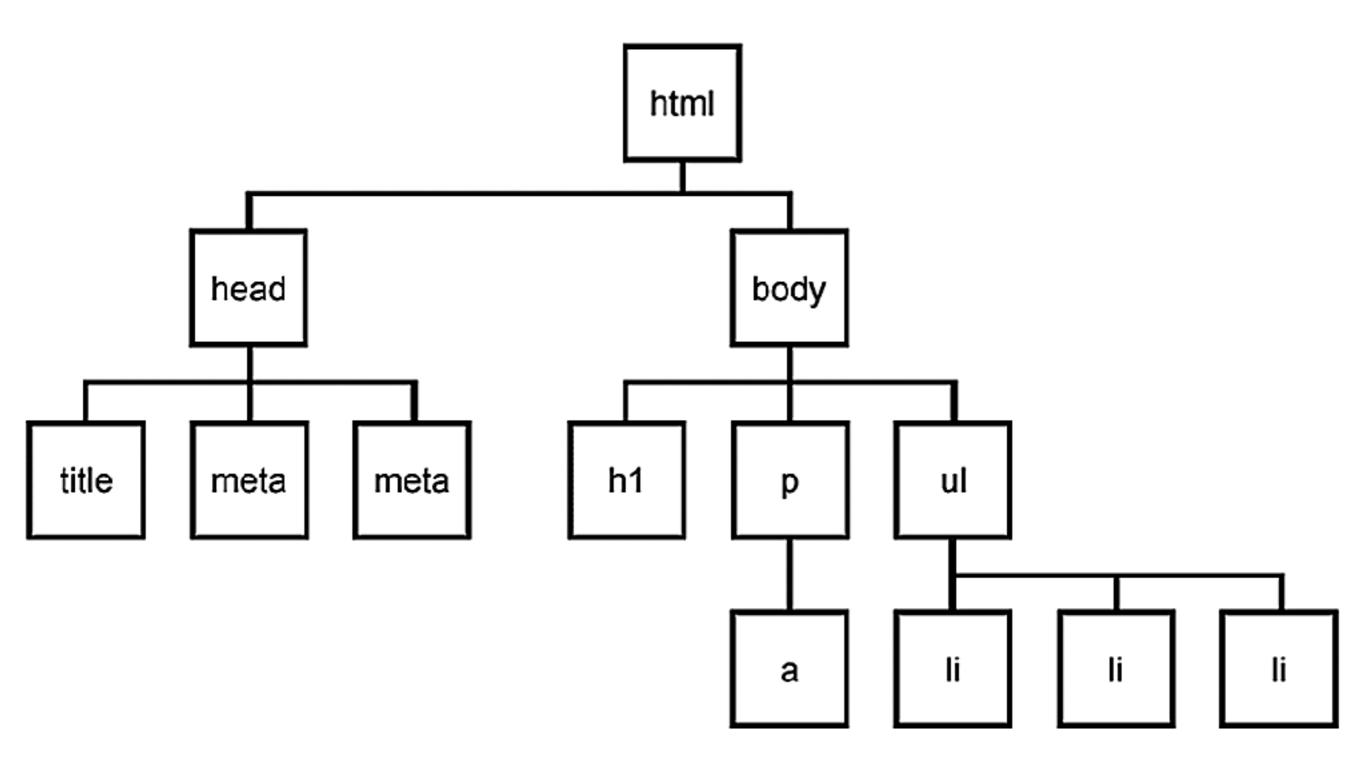
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#### < HTML >

#### 3 categories of HTML elements

- 1 block: large blocks of content has height + width , <h1>, <blockquote>, , ,
- 2 inline: small about of content, no height or width <a>, <em>, <strong>, <br/>, <span>, <time>
  a. inline block: inline content w/ height + width
- 3 metadata: information abou the page, usually not visible <title>, <meta>, <script>

#### **Parent / Child Element Structure**



#### Parent + Child

```
<!doctype html>
                 <head>
                     <title> Week 1 </title>
head is the parent of title
                 </head>
                 <body>
 div is the child of body
                     <div>
                     Here's a Great Site.
                     </div>
body is the child of html
                 </body>
           </html>
```

Structure tags

The <head> element contains
the metadata for a web page. Metadata is
information about the page that isn't
displayed directly on the web page. Unlike
the information inside of the <body> tag,
the metadata in the head is information
about the page itself.

<div>s can contain any text or other
HTML elements, such as links,
images, or videos. Remember to
always add two spaces of indentation
when you nest elements inside
of <div>s for better readability.

#### **Semantic HTML**

HTML should be coded to represent the data that will be populated and not based on its default presentation styling. Presentation (how it should look), is the sole responsibility of CSS.

Some of the benefits from writing semantic markup are as follows:

- Search engines will consider its contents as important keywords to influence the page's search rankings (see SEO)
- Screen readers can use it as a signpost to help visually impaired users navigate a page
- Finding blocks of meaningful code is significantly easier than searching though endless divs with or without semantic or namespaced classes
- -Suggests to the developer the type of data that will be populated
- -Semantic naming mirrors proper custom element/component naming

>

<h1> - <h6>

<article>

Semantic elements

<main> dominant content of the <body> element

A document, page or site. This is usually a root

container element after body

<section> Generic section of a document

<header> Intro section of a document

<footer> Footer at end of a document or section

<nav> Navigational section

Use these **before** div when appropriate.

#### Semantic elements

#### <aside>

represents a portion of a document whose content is only indirectly related to the document's main content. Asides are frequently presented as sidebars or call-out boxes.

#### <details>

creates a disclosure widget in which information is visible only when the widget is toggled into an "open" state.

#### <figcaption>

represents a caption or legend describing the rest of the contents of its parent <figure> element.

#### <mark>

represents text which is marked or highlighted for reference or notation purposes, due to the marked passage's relevance or importance in the enclosing context.

#### <summary>

element specifies a summary, caption, or legend for a <details> element's disclosure box. Clicking the <summary> element toggles the state of the parent <details> element open and closed.

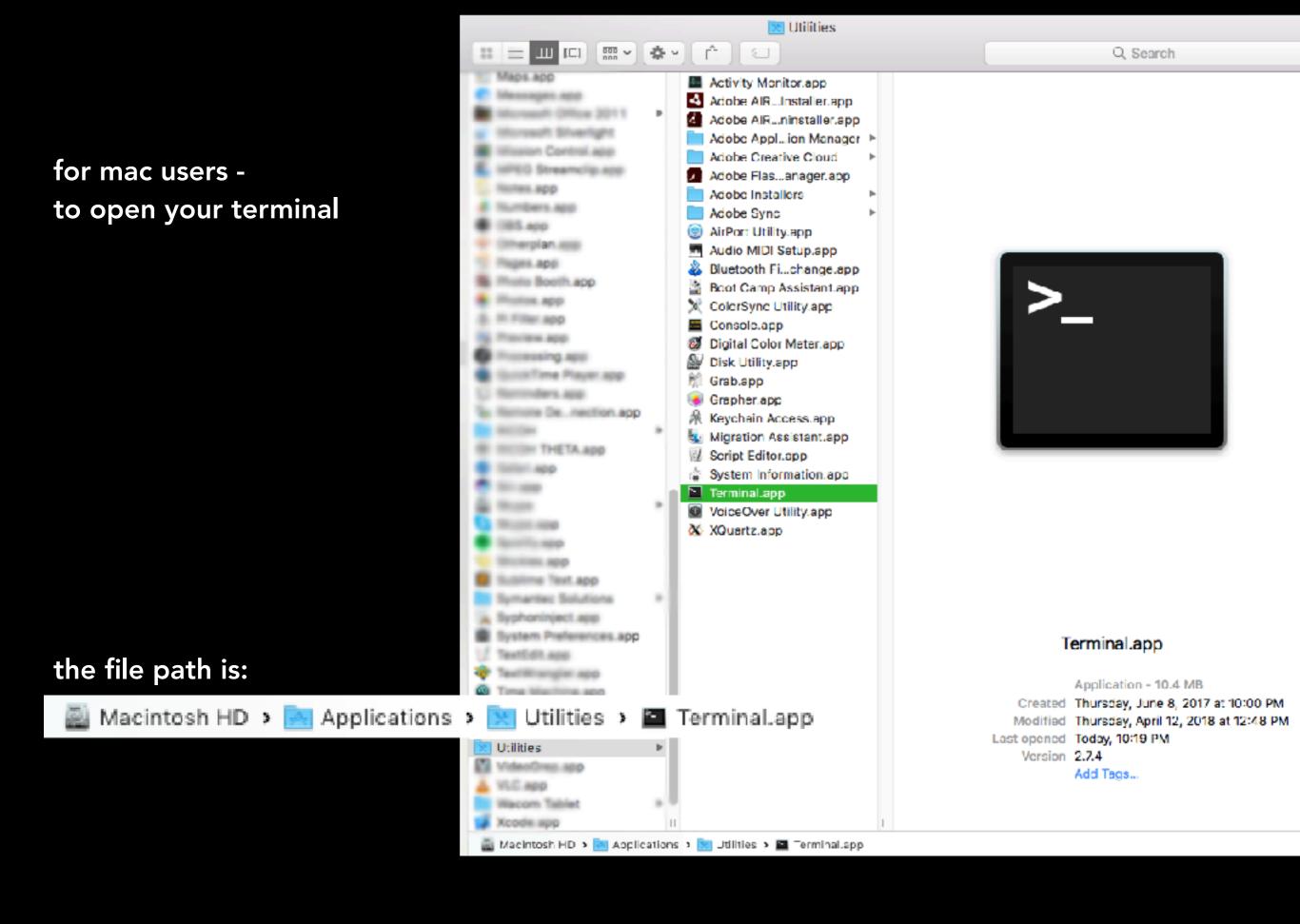
#### <time>

represents a specific period in time.

The <em> tag will generally render as italic emphasis.

The <strong> will generally render as bold emphasis.

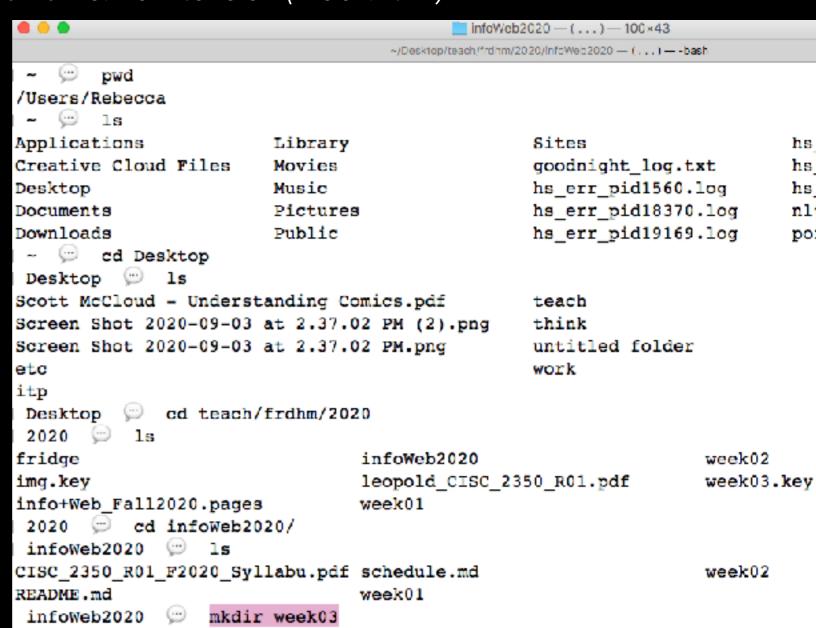




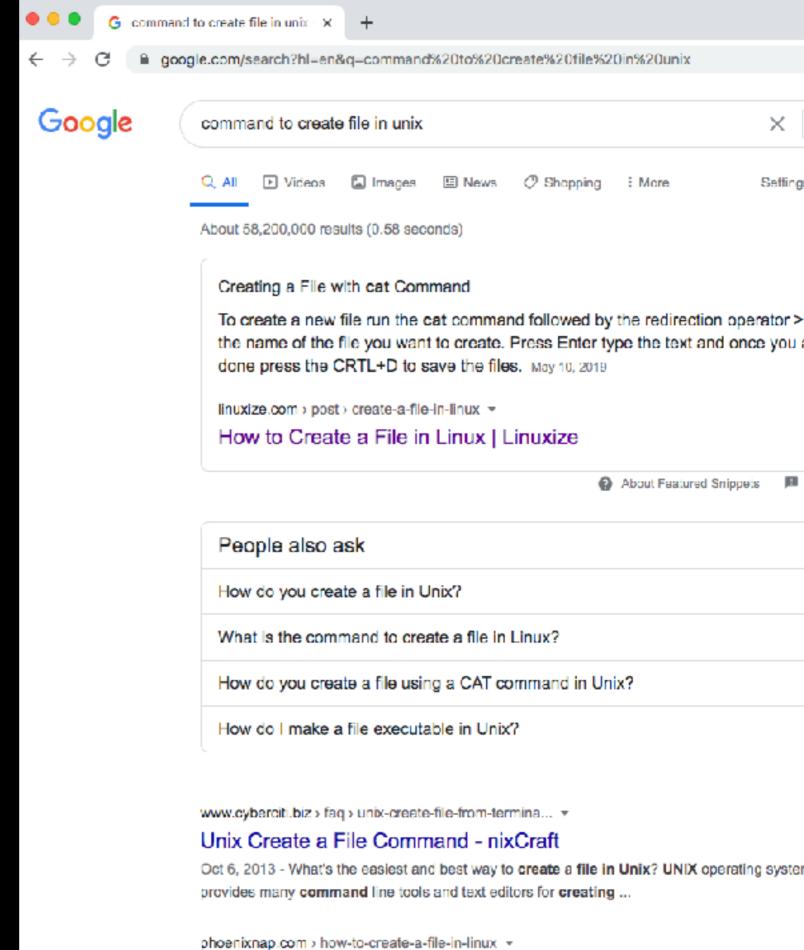
on the command line we are asking our computer questions and telling it what to do in **Unix**:

- pwd "present working directory" === where am !!?
- cd "change directory" === go inside this folder please.
- S "list items in this directory" === what's in this folder?
- rm "remove file" === GET RID OF THIS FOREVER (doesn't work w/ directories)
- mkdir "make directory" === make a new folder
- touch "create file" === create a name.fileExtension (index.html)

When in doubt - don't forget to ask the interwebs! Example.



When in doubt - don't forget to ask the interwebs! Example.



How to Create a Linux File Using the Command Line (8 Easy ...

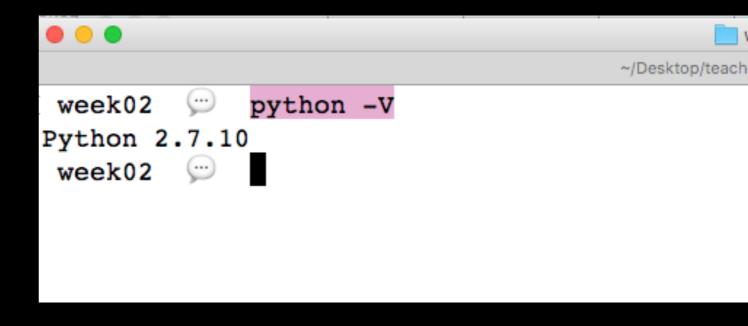
Jun 27, 2019 - Create a File with Touch Command The easiest way to create a new file in Lin is by using the touch command. The is command lists the contents of the current directory.

We also use the command line to run a local server when prototyping websites.

On a Mac this is easy.

Step 1. Check which version of Python is on yr machine

### python -V



### Starting a local http server from the command line...

```
If you have installed Python 3.0+:
    python -m http.server
    otherwise: python -m SimpleHTTPServer
```

in browser address bar: localhost:8000

Mac - to close the server: COMMAND C
Wndws - to close the server: CNTRL C

As you make changes to your design / code - you can "live" refresh the page, changes (+ bugs) will be noted by the server.

\*\* Press "Control" + "C" to end the server session.

(Otherwise it's the equivelent to unplugging a hard drive w/ out "ejecting it" - BAD PRACTICE. As DIGITAL CITIZENS - we ♥ our hardware + software...)

Running a local <u>Python</u> HTTP Server in Mac OS - this is very simple :

When inside yr project folder simply type the following command:

"python -m SimpleHTTPServer"

- defaults to port 8000

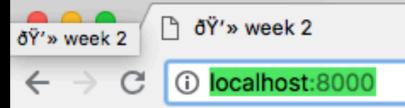
if we wrote:

"python -m SimpleHTTPServer 12345"

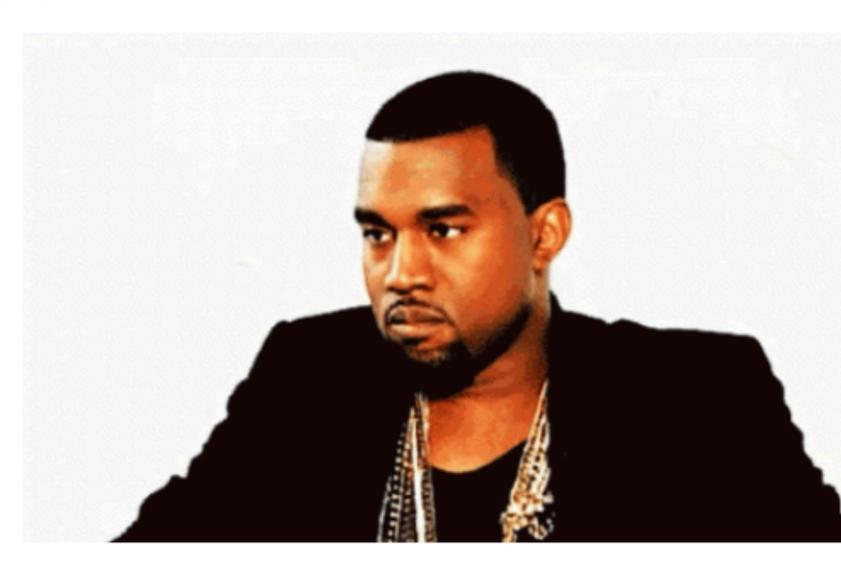
- we would go to port 12345

```
week02 — ( . . . ) — 74×37
        ~/Desktop/teach/frdhm/= _F_2018/infoWeb2018/week02 — (...) — -bash
 infoWeb2018
              □ ls
README.md
                week01
                                 week02
                  cd week02
 infoWeb2018
 week02
             ls
                index.html
assests
            python -m SimpleHTTPServer
 week02
```

```
week02 - (...) - 74×37
  ...teach/frdhm/ _____ F_2018/infoWeb2018/week02 — ( . . . ) — python -m SimpleHTTPSe
infoWeb2018
                   ls
README.md
                 week01
                                   week02
infoWeb2018
                   cd week02
week02
              ls
_assests
                 index.html
              python -m SimpleHTTPServer
week02
Serving HTTP on 0.0.0.0 port 8000 ...
```



hello worlds!



url is: localhost:8000