WELCOME TO INFO6250

Web Development Tools and Methods

- The Hows and Whys of the Web
- Building a Multiple Page Web Application
    - NodeJS backend
    - HTML
    - CSS
    - JS frontend
- Building REST-based services (NodeJS backend)
- Building a Single Page Application (using React)
- Basic Best Practices for the Web

WHY THE INSTRUCTOR IS CREDIBLE

Brett Ritter `<b.ritter@neu.edu>`

- first job as WebDev in 1995
- webdev ever since
- multiple languages, frameworks, platforms
- both frontend and backend
- full-time job is in webdev, teaching is a side-gig
  - tell me where to improve my teaching

NOT PERFECT

I have a truly terrible memory.

Terrible

You have my permission to remind me, and keep reminding me, until something is done or I explicitly say "stop".

I am partially tone-deaf.

If I ask you to repeat yourself, my poor hearing is why.

FUNNY

I tell jokes.

Fortunately, they are all hilarious and you will laugh.

Out loud.

Try it now.

GET BETTER

We will keep practicing on that

EXPECTATIONS

Your Job is to Learn

My Job is to Teach

EXPECTATIONS - REQUIREMENTS

Your Job is to Learn

- Read materials
- Follow Instructions

My Job is to Teach

- Make material clear

EXPECTATIONS - REAL REQUIREMENTS

Your Job is to Learn

- Read materials
  - For realsies, then ask questions
- Follow Instructions
  - For realsies, then ask questions

My Job is to Teach

- Make material clear
  - I have to know when it is not clear
    - You need to ask questions

SLACK

We communicate via Slack

- http://rebrand.ly/svinfo6250-slack

- You can email me
    - but it will be slower
    - and it is terrible to talk about code
- Use it web, desktop, or phone
    - desktop/phone recommended for notifications

USING SLACK

Answer the poll

MENTIONING CODE IN SLACK
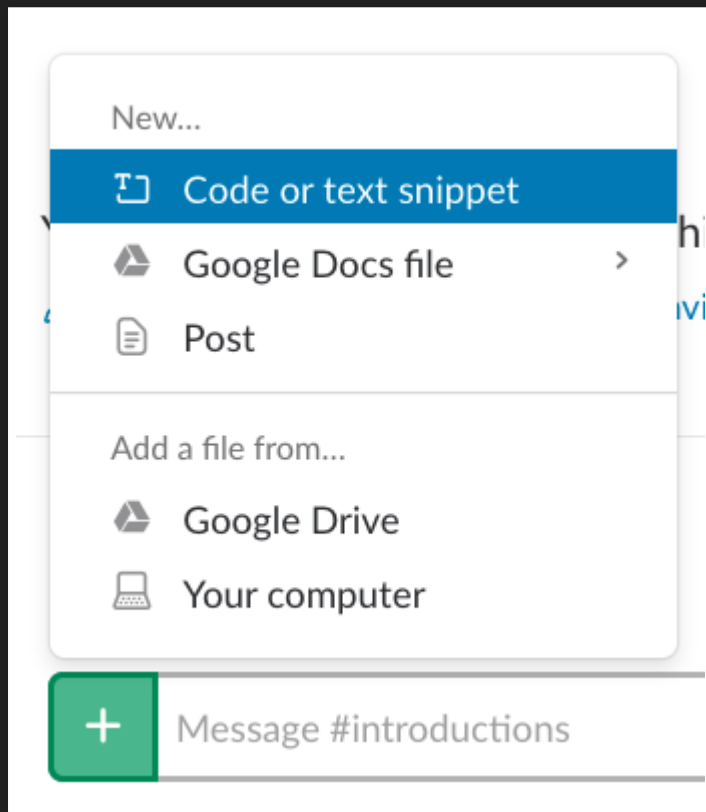
Send a message to **#introductions** that says:

(notice the *backtick* characters)

```
this has *bold* but `this does *not*`
```

CODE BLOCKS IN SLACK

triple backticks ``` ` ``` before/after your message

Or use "post Code or text snippet"

New...

- Code or text snippet
- Google Docs file >
- Post

Add a file from...

- Google Drive
- Your computer

Message #introductions

CLASS GITHUB

We use git and github.com

Each of you get a personal repository

- https://rebrand.ly/svinfo6250-github

You must have/get a github.com account

GIT VS GITHUB

`git` is the source control/version control system.

- tracks files
- changes to files
- many devs can have repos
- can pass files/changes between many repos

`github.com` provides a central place for repos. It has competitors (example: gitlab.com)

github uses git, git does not require github or a github competitor, though we will use github.

GITHUB FLOW

git is *decentralized*.

github provides an option for pseudo-centralization

- local master branch --(checkout)-->
- local feature branch(edit/add/commit) --(push)-->
- github feature branch --(PR/merge)-->
- github master branch --(pull)-->
- update local master from github master

Other flows exist; this one is the one we will use

DO AND DO NOT

My job is to teach you

- DO ask questions
- DO not worry about bothering me
    - I will tell you BEFORE that happens
- DO NOT worry about looking uninformed
    - Everyone has different experiences and methods
- DO NOT expect to catch up by working harder
    - Good attitude, but Time, not you, is the problem
    - Easier to fix being behind earlier rather than later

A UNIQUE WARNING ABOUT THE WEB

You WILL be expected to learn a lot of detail online

BUT a **lot** of info about web tech is outdated

- Don't use any sources older than 3 years ago

Really. **3 years max**. Or extra work and wrong work.

COMMON QUESTIONS

- Do I need to know HTML/CSS?
- Do I need to know programming?
- Do I need to know JS?
- Can I use another language?
- Can I use this outside library?
- Can I use this other framework?
- Can I use this other IDE?
- Can I record the class for my own use?
- Can the instructor record the class for me?
- Can the instructor send class materials out?

CLASS PREREQUISITES

- Do I need to know HTML/CSS?

  - You are expected to know the basics
  - The 6150 class is great and recommended, but not required
  - You can learn alongside class
  - https://developer.mozilla.org/en-US/docs/Learn

- Do I need to know programming?

  - Basics (variables, conditionals, looping, functions) are expected
  - Be ready to learn how things are different

- Do I need to know JS (Javascript)?
  - No expectation

USING OTHER TOOLS

- Can I use another language?
  - No, we use only JS for my sanity
- Can I use this outside library? (example: Bootstrap)
  - No, we need to exercise the fundamentals
  - Exceptions will be explicitly given per assignment
- Can I use this other framework? (example: Angular/Vue)
  - No, we use React for my sanity and for principles
- Can I use this other IDE?
  - As long as you don't expect me to know that IDE

RECORDING THE CLASS

- Can I record the class for my own use?
  - I don't know the NEU policy, but I have no personal objections
- Can the instructor record the class for me?
  - No, distributing the video files has proven hard

CLASS MATERIALS

Can the instructor send class materials out?

Slides and code samples will be added to your repositories after class.

- `git checkout master`
- `git pull origin master`

If you feel something is missing, ask for it via Slack.

BUT - anything that comes in the moment may not be saved to send out. Missing class is risky.

SUMMARY - YOU

- will **remind me** if you need something
- can and will **use and check** our Slack
- have your own **github repo**
- have a **local copy** of the repo
- have installed and done **config** changes
- know how to **get** and **submit** work
- will **submit a PR** that provides your info
- will **not use old** online information
- will **read** material
- will **ask questions**