GIT, GITHUB, & FINAL PROJECT LAB

WEEKLY OVERVIEW

WEEK 8	Responsive Basics / Final Project Lab
WEEK 9	Students Choice / Final Project Lab
WEEK 10	Final Project Lab / Presentations

LEARNING OBJECTIVES

- Define a version control system (Git) and explain its benefits
- Connect local repositories to remote repositories using the GitHub app
- Continue working on final projects

AGENDA

Debugging HTML/CSS

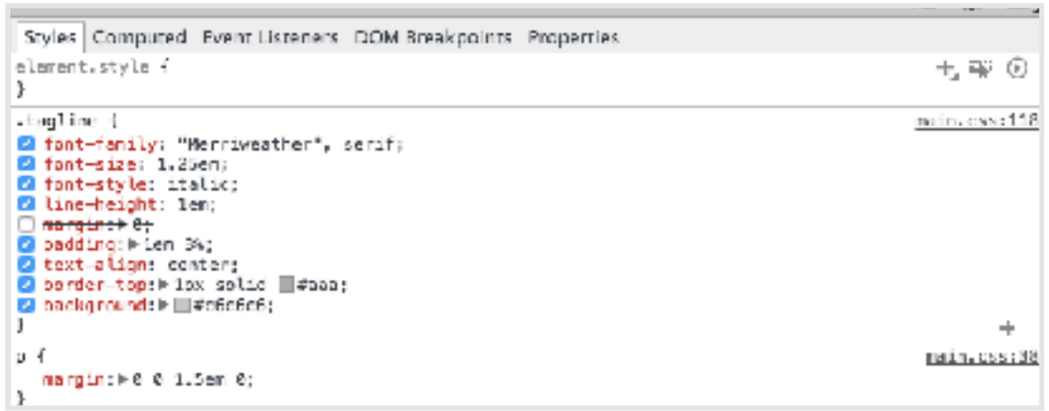
Git & Github

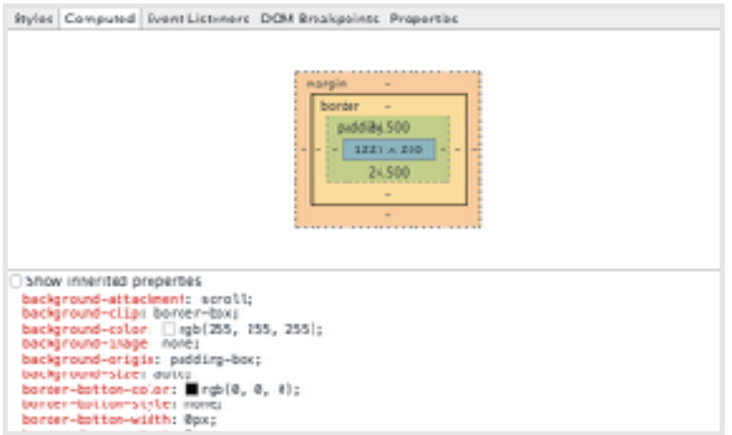
Final Projects Lab

DEBUGGING HTML/CSS

DEBUGGING — HTML & CSS

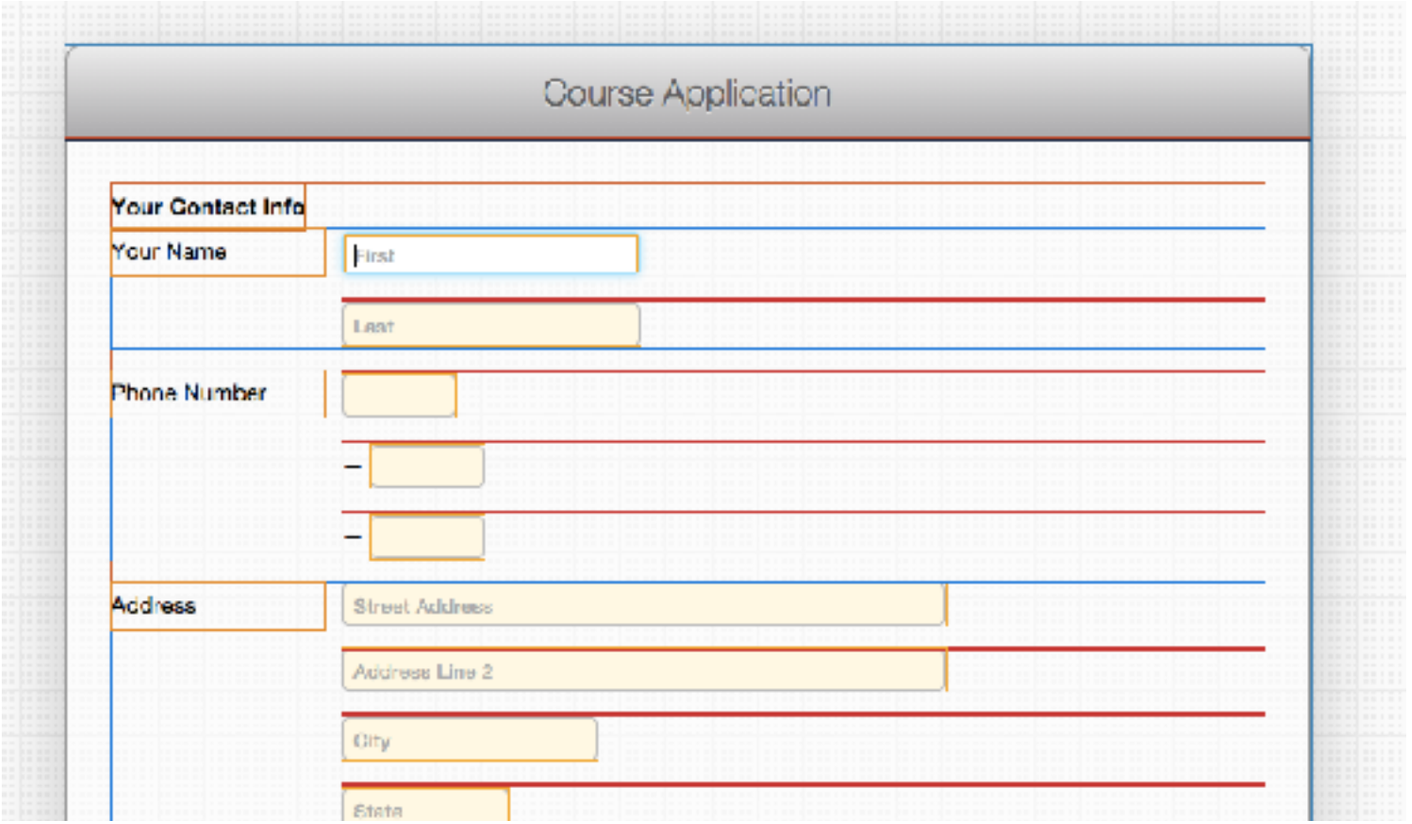
1. **The first thing you should always do is right click, inspect element.**
   - Select which element isn't appearing like it should be in the elements panel.
   - Hover over the element in the HTML panel to see where the padding (green) is and margins (orange) are.
   - Take a look at the CSS styles that are being applied in the styles panel. Check and uncheck the checkboxes to see how styles are being applied.
   - If something is crossed out, it could be a specificity issue
   - Check the "computed" tab to see how the browser is computing your styles.





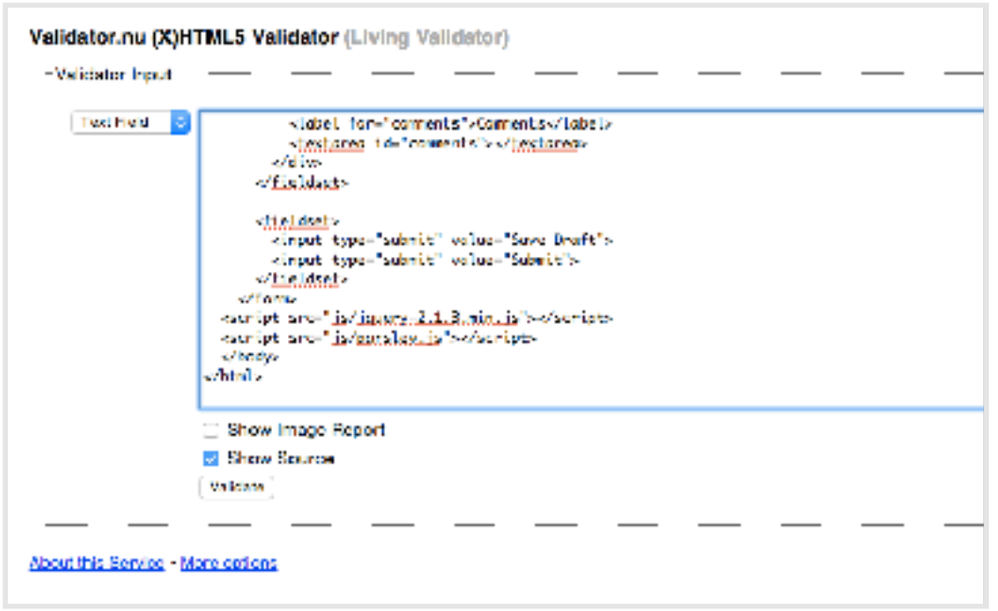
DEBUGGING — HTML & CSS

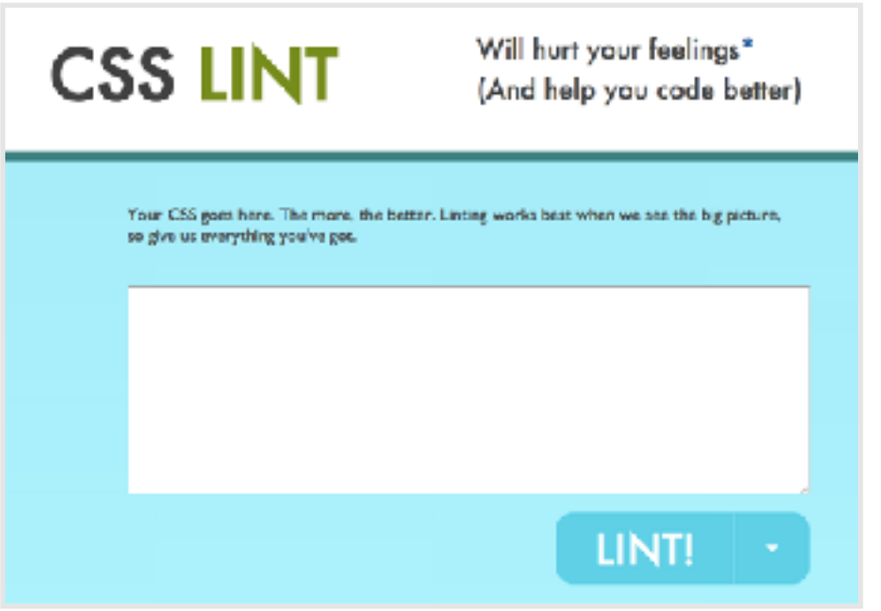
2. Layout giving you trouble? Add a border to everything in your CSS, or use the Pesticide Chrome/Safari extension to do the same



DEBUGGING — HTML & CSS

3. Check for syntax errors! Use CSS Lint to check CSS & an HTML5 Validator to check HTML





DEBUGGING — BROWSER INCONSISTENCIES

4. Check the site in different browsers (Chrome, Safari and Firefox). If there are inconsistencies:
   - Make sure you're using a reset stylesheet, like normalize.css to handle browser inconsistencies.
   - Use http://pleeease.io/play/ to make sure you're including all the right browser prefixes

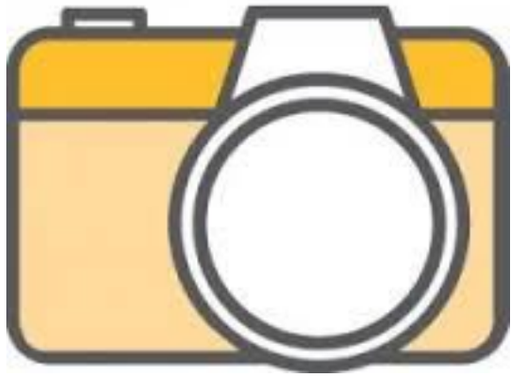
GIT AND GITHUB

KEY VOCABULARY TERMS

WHAT IS GIT?

GIT

- A **version control** program that saves the state of your project's files and folders
- Basically, it takes a "snapshot" of what all your files look like at a moment and stores a reference to that "snapshot"



WHAT IS A REPOSITORY?

REPOSITORY:

- **Central location** in which data - typically about a project - is stored and managed

WHAT IS GITHUB?

WHAT IS GITHUB?

GITHUB

- **Platform** that makes it easy to manage git repositories.
- Similar to Dropbox or Google Drive, but for code.
- Stores a history of files and the changes that happen within each changed document.
- Hosts files on the cloud so you can share the finished product with other people.
- **Git** - the technology that Github is based on top of - was designed to allow for multiple engineers to work on the same project.

WHY USE GITHUB?

HISTORY

- Since GitHub stores a history of the code, it allows developers to go back in time if something breaks.

COLLABORATION

- Allows multiple developers to work on the same project. Much like Google Drive lets multiple people collaborate on the same document, GitHub allows this for code.
- You can see who worked on what.

FEEDBACK

- GitHub allows for feedback to be given on the code which, hopefully, increases code quality.

ACTIVITY

EXERCISE

KEY OBJECTIVE

Define Git and explain the benefits of using a version control system

TIMING

1 min	1. Turn to partner and discuss
2 min	2. Share with rest of class

DEPLOYING FINAL PROJECTS

ACTIVITY

EXERCISE

KEY OBJECTIVE

- Connect local repositories to remote repositories using the GitHub app

TYPE OF EXERCISE

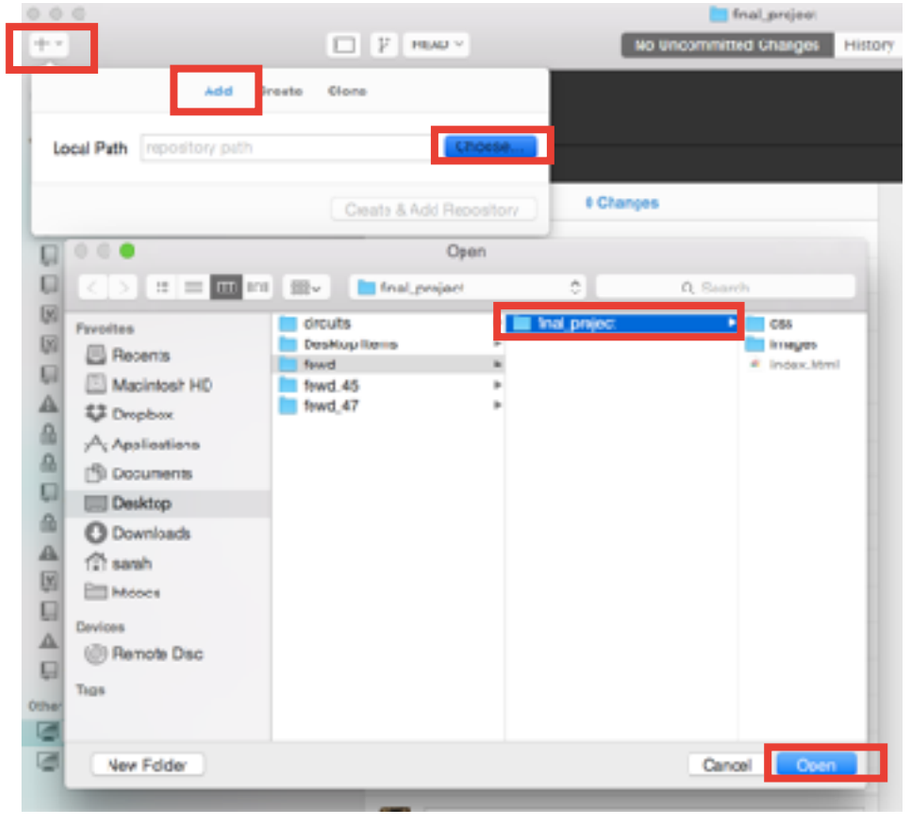
- Individual/Partner

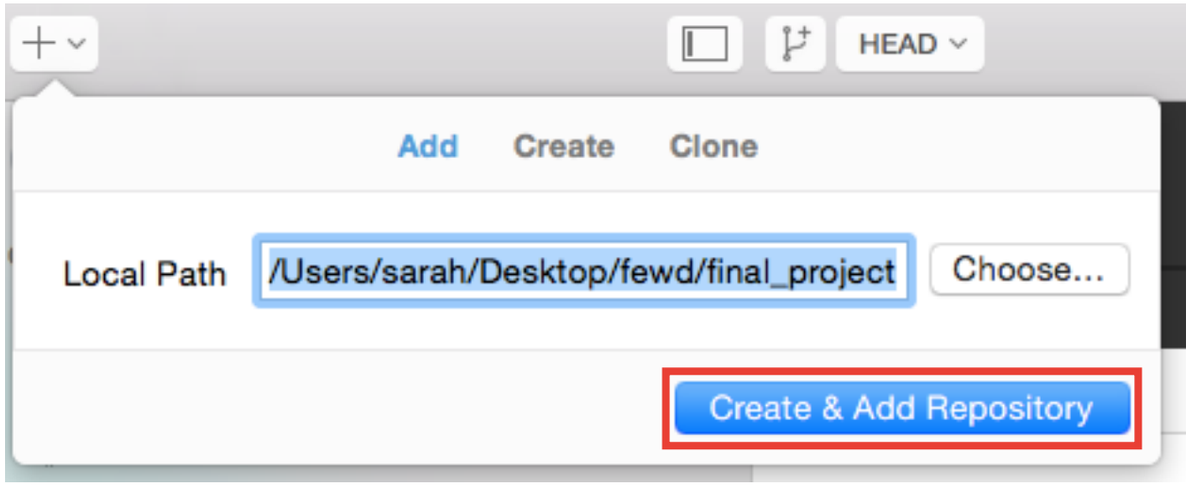
TIMING

6 min

1. If you don't already have a GitHub account, go to github.com, click Sign Up, and create an account.
2. Download GitHub Desktop from https://desktop.github.com, then install it.
3. Open GitHub Desktop, go to Preferences > Accounts, then enter your GitHub username and password and sign in.

SETUP


Add
Clone
Local Path
repository path
Choose...
Create & Add Repository
Changes
Open
final_project
Favorites
Recents
Macintosh HD
Dropbox
Applications
Documents
Desktop
Downloads
sarah
Devices
Remote Disc
Tags
circuits
fewd
fewd_45
fewd_47
final_project
New Folder
Cancel
Open


HEAD
Add
Create
Clone
Local Path
/Users/sarah/Desktop/fewd/final_project
Choose...
Create & Add Repository

WORKFLOW

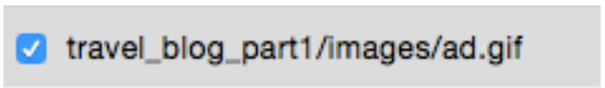
IN VISUAL STUDIO CODE:

Make sure all your changes are saved.

IN THE GITHUB APP:

ADD

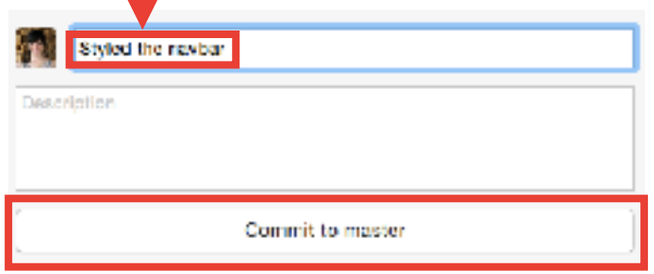
Make sure the boxes next to each file you've edited are checked.



COMMIT

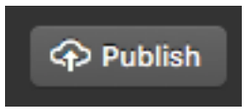
Enter a commit message and click "Commit to master."

commit message



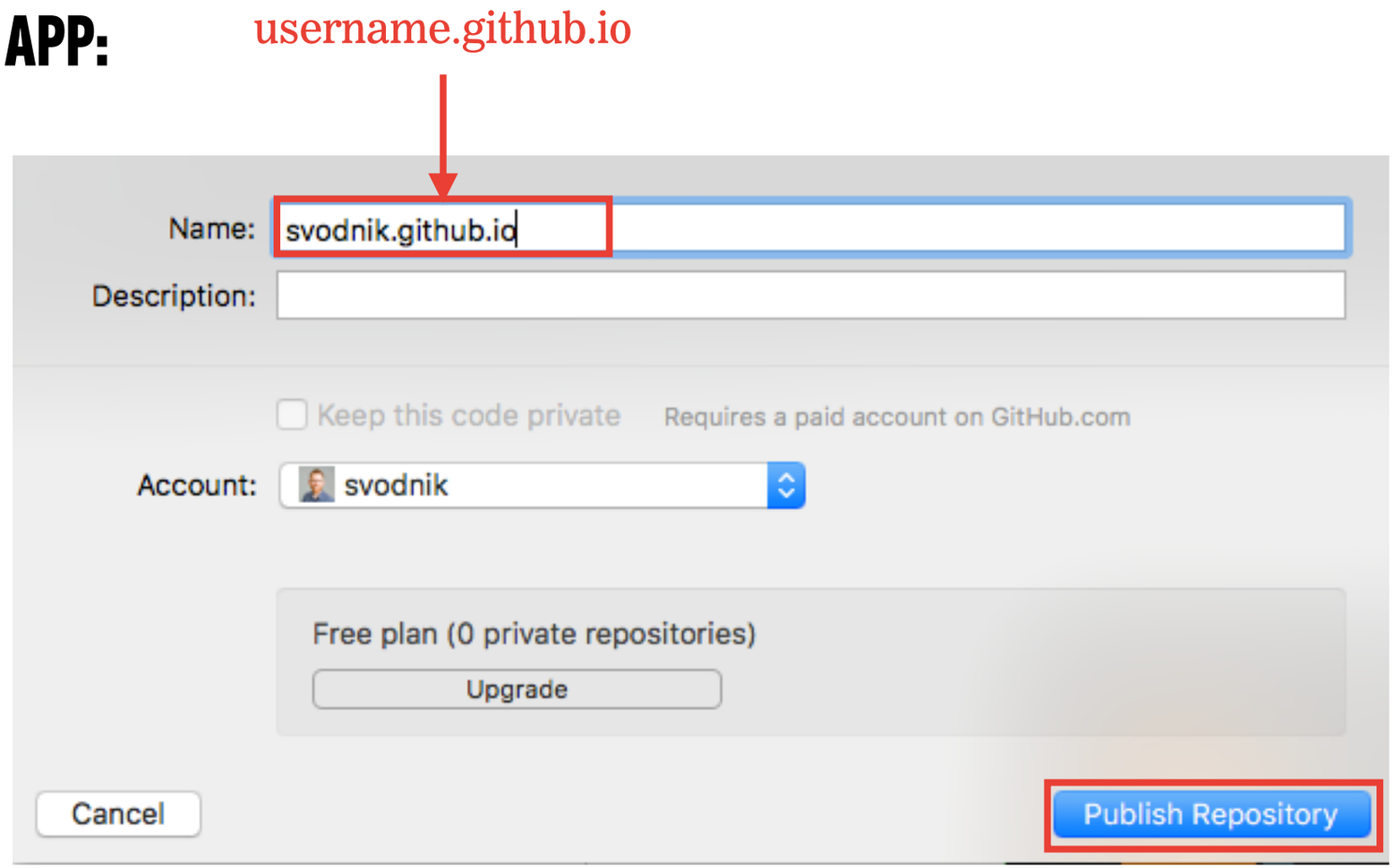
PUSH

Click "Publish" in upper right corner.



SETUP

IN THE GITHUB APP:



UPDATING SITE

WORKFLOW

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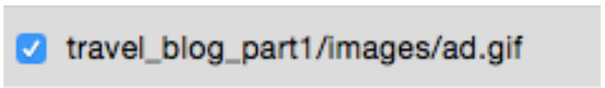

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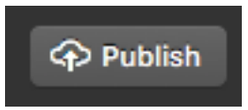

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EXIT TICKETS!