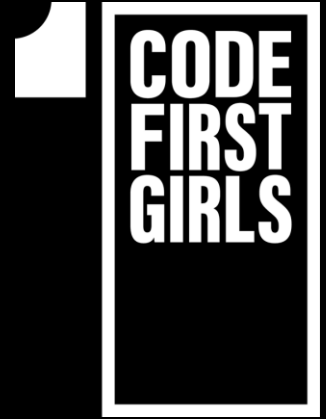


WELCOME TO CFG **YOUR INTRODUCTION** **TO WEB DEVELOPMENT**



TECH SHOULDN'T JUST BE A BOYS CLUB.

COURSE JOURNEY

MODULE 4: JAVASCRIPT

HTML

MODULE 01

CSS

MODULE 02

Recap
Project design

MODULE 03

Javascript
+ Overview & Data-
types



MODULE 04

Mock Project
GitHub
Optional Material

MODULE 05

Project
presentations
Careers in web
development

MODULE 06

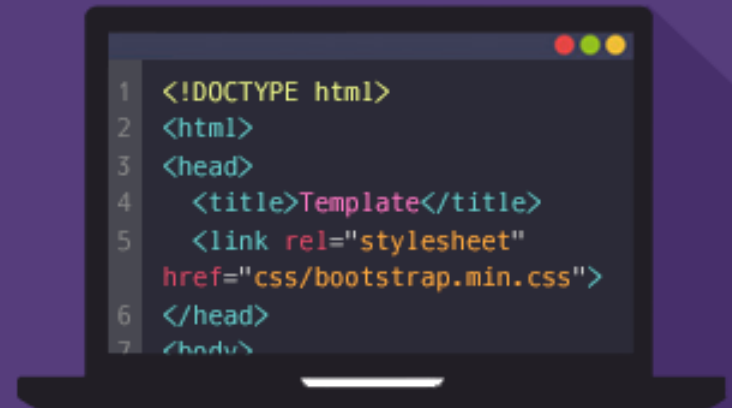
Bootstrap overview

Mock project practice

How to publish a website with GitHub



Bootstrap



MOCK PROJECT



- 01** Let's build a sample project
- 02** We publish the project live

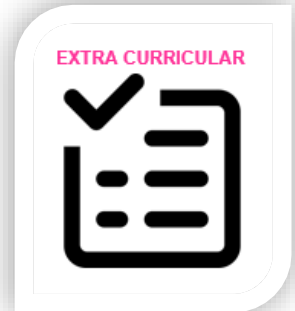
THANK YOU
GOOD LUCK FOR
YOUR PROJECT
PRESENTATIONS!



TECH SHOULDN'T JUST BE A BOYS CLUB.

OPTIONAL TOPICS

THESE CONCEPTS ARE USEFUL TO KNOW –
WE ENCOURAGE YOU TO SELF STUDY



WHAT IS GITHUB?

As developers, we need ways to change our code without stepping on each other's feet..

1. **Git** is software that tracks changes in your code. It "copies" the code on one branch to another so a developer can make changes
2. **Github** is a cloud platform where developers can store and share codebases (like Google Drive)
3. **Github Pages** is a free feature which hosts our static HTML, CSS and Javascript



GIT WORKFLOW: OVERVIEW



01 MASTER

Clean, working production-ready code

02 DEV

Clean, working, production-ready code also, meant as a buffer for potentially breaking features

03 FEATURE

Whether you're adding, updating or deleting a feature (eg. an image gallery), it should be on its own branch

04 Github uses other keywords like **PUSH**, **PULL**, **MERGE**, **ADD** and **COMMIT** to move changes from one branch into another

USING GITHUB FOR YOUR PROJECTS

You can make and commit changes to your project directly through GitHub. If you wish to do so, please ensure you go through the **Student guide and demos** shared to understand how to collaborate using GitHub

For the purpose of this course, we will ensure our project is ready and use GitHub only to host our website.



GITHUB PAGES

UPLOADING YOUR PROJECT

Make sure you have Github Desktop installed and a Github account

Click the plus icon in the top left

Choose a name

Owner Repository name *

username / final-project ✓

Make sure 'Initialise with a README' is blank

Skip this step if you're importing an existing repository.

☐ Initialize this repository with a README

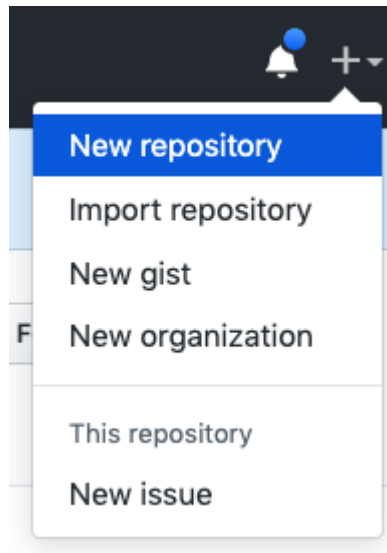
This will let you immediately clone the repository to your computer.

Add .gitignore: None ▾

Add a license: None ▾



Create repository



GITHUB PAGES

UPLOADING YOUR PROJECT

On the next page, choose 'Upload an existing file'

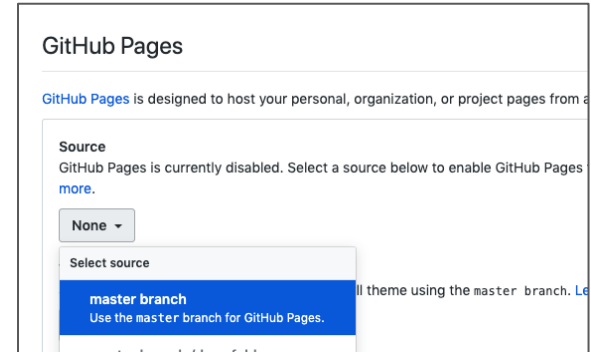
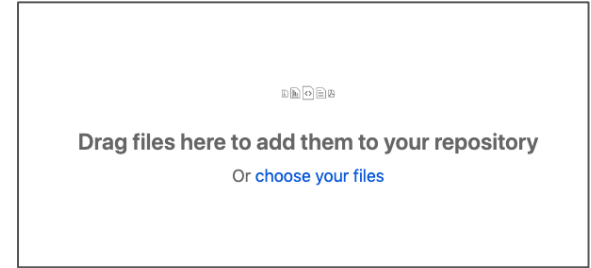
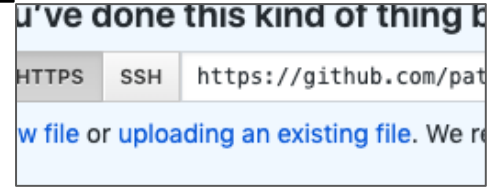
Navigate to your project and add all the files you want to upload

Once uploaded, add a message and commit changes

Refresh the page then go to settings and scroll down until you see Github Pages

For the branch, choose Master. When the page refreshes, scroll back down to the Github Pages section and you will see a URL

That's it! (It may take a few minutes)



UNDERSTANDING FRAMEWORKS

What is a framework?

- + A skeleton of code providing generic functionality
- + You can use it as a base for your styles
- + You can also override the framework code with your own

#1: FLEXBOX GRID

Flexboxgrid

- + Lightweight, responsive, modern
- + Only uses containers, rows and columns
- + Requires download
- + Very basic

Flexbox Grid

A grid system based on the **flex** display property.

[Download](#)[Github](#)

OPTIONAL PRACTICE

5 MINS

1. Download from their github page -
<https://github.com/kristoferjoseph/flexboxgrid>
2. Copy the **flexboxgrid.min.css** file into your own CSS folder
3. Link to it from your index.html (eg <link rel="stylesheet" href="./css/flexboxgrid.min.css">)

JAVASCRIPT FRAMEWORKS

- 01** They use Javascript to create interactive HTML and CSS
- 02** Largely component-based (extremely reusable) and powerful. A vast majority of modern web apps use one
- 03** Typically require ~3 solid months of Javascript as a prerequisite

REACT



- + Facebook
- + Component-based
- + Has react-native for mobile apps

VUE



- + Independent, open-source
- + Component based
- + Popularity is skyrocketing

ANGULAR



- + Google
- + Mix of HTML and Typescript (very similar to Javascript)
- + Very powerful but huge framework