

HTML/JavaScript/CSS Goals

Summer 2022 HackCamp at Bishop Ireton

HTML/JavaScript/CSS

1. Creating a web-site is more fun if other people can look at what you create, so we will use github pages so that you have a hostable web-site.
2. Github pages is FREE and github is a GREAT code sharing site that is used by people in school and in industry. Learning how to use it is a great way to develop yourself as a coder.
3. Github is a resource for code sharing and also a version control system – so, you can incrementally make changes to your code and roll back to a previous working version – if you ever break it.
 - a. Create a github account here: education.github.com
4. We will use VSCode as our editor. It is free, user friendly, easy to use and a lot of professionals use it.
 - a. To use VSCode with Github we need to install the extension located here
 - b. [Working with GitHub in Visual Studio Code](#)
5. Login to Github in browser
 - a. Create a new repository
 - i. Name: Portfolio
 - ii. Make public
 - iii. Check repository
 - iv. Click Create Repository (no gitignore, no license)
 - b. Settings
 - i. Pages
 - ii. Select main as source (hit save)
6. Clone repository in VSCode
 - a. Open Command Palette using Ctrl-Shift-P
 - b. Type clone and choose git:clone then github
 - c. Login to Github through VSCode
 - d. Copy the url from Github (under code button – green, mid page)
 - e. Paste url into vscode at the top where it is asking for it
 - f. Select/Create a local repository location
 - i. BE CAREFUL – everyone is using the same documents folder, make sure you create your OWN folder
 - ii. Browse to the Documents Folder
 - iii. Use your name and then the word portfolio
 - iv. Trust the authors if you are asked
 - g. You SHOULD have a README.md file ... and you should be able to use a browser to look at it
 - i. The URL for my website is <https://bishop-ireton-summer-camp.github.io/Portfolio/> you can find yours on the github repository under settings, pages
 - ii. There are three possible defaults for browsers to load when looking at your web-site
 1. index.html
 2. index.md
 3. README.md

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7. In VS Code, create index.md
 - a. Add lines that are similar to, but different than the README.md lines
 - b. Learn the git procedure:
 - i. Stage all changes
 - ii. Commit changes (with a message)
 - iii. Push changes
 - c. Go to github – is the page there?
 - d. Go to your web page and reload – what happens?
 - i. Does it load one or both files?
 - ii. Change your files – File->Save ALL
 - iii. Go through the git process again
 1. Stage
 2. Commit (message)
 3. Push
 - iv. What do you see?
 - v. Note – sometimes changes don't show up for 20 minutes. To see your pages locally
...
 - e. Markdown cheat sheet: [Markdown Cheat Sheet | Markdown Guide](#)
 - f. HTML cheat sheet: [HTML Cheat Sheet - A Simple Guide to HTML \(simplehtmlguide.com\)](#)
 - g. Javascript Cheat Sheet:
 - h. More complicated cheat sheets: [CSS Cheat Sheet - Interactive, not a PDF | HTMLCheatSheet.com](#)
8. Now that you can make changes to the mark down and the html files, you get to choose what you focus on. You have the cheat sheet, what kind of text do you want on your page? There are a few things every one should be able to do:
 - a. Regular text
 - b. Headers
 - c. Bold Text
 - d. Italicized Text
 - e. Underlined Text
 - f. Display an Image (use the anchor tag)
 - g. Use the div/paragraph tag
 - h. List
 - i. Ordered
 - ii. Bulleted
 - i. Tables are weird and cool
 - j. Open Another Page (more on the anchor tag)
9. After that
 - a. CSS Style Sheets
 - i. [CSS Tutorial \(w3schools.com\)](#)
 - ii. When you create a separate css file, to link it to the html, you put the linking line in the header of the html file:

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- iii. `<link rel="stylesheet" type="text/css" href="file.css">`
 - b. JavaScript Code!
 - i. Pick a project from here: [40 JavaScript Projects for Beginners – Easy Ideas to Get Started Coding JS \(freecodecamp.org\)](#)
 - ii. [JavaScript Tutorial \(w3schools.com\)](#)
 - iii. [Learn JavaScript: Introduction Cheatsheet | Codecademy](#)
 - iv. Together we will add a countdown timer – because it is relatively simple
 - v.
 - c. [Finally, a Guide to Hosting Your Website — Jon H.M. Chan \(jonhmchan.com\)](#)
 - i. Watch the 5 minute video about how the internet works
 - ii.
10. Perhaps do a vs code tutorial – or wait until after campers have used it for awhile
- a. [Visual Studio Code Introductory Videos](#)
11. HTML
- a. Tags first
 - i. HTML
 - ii. BODY
 - iii. Header
 - iv. Text
 - 1. Bold
 - 2. Italic
 - 3. Underline
 - v. Images
 - vi. Lists
 - vii. Tables
12. Finally – you can use the web-site noip to create a free, easy to remember ip address – but, you will have to renew it every 30 days – which takes 2 clicks – so, it is not that big a deal. And, it is pretty cool. Once you register it – it takes 24-48 hours for it to show up
13. Projects
- a. [How To Create a Popup Chat Window \(w3schools.com\)](#)
 - b. [How To Create a Coming Soon Page \(w3schools.com\)](#)
 - c. [How To JS Animate \(w3schools.com\)](#)
 - d. [How To Toggle Between Dark and Light Mode \(w3schools.com\)](#)
 - e. [How To Create a Flip Card with CSS \(w3schools.com\)](#)

Some other resources:

- 14. [How to Create an Animated Pixel Art Sprite in Adobe Photoshop \(tutsplus.com\)](#)
- 15. [Collision Detection and Physics - JavaScript Tutorial | Spicy Yoghurt](#)

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