Coding for Creatives Syllabus

Miami Ad School

April 2018

M. Paul Weeks

Week 1

- Explain class structure, goals, grading
- · How the internet works
 - DNS
 - Servers and IP
 - Routers and Local IP
 - Frontend vs Backend, "static files"
- Working with GitHub
- · Introduction to HTML
- Introduction to CSS
- · Demo Chrome dev tools

Homework

· Biography page

Week 2

- Explain source control
- · Relative vs absolute URLs
 - Hotlinking
- · Inline styles
- Fonts
- · Browser cache and cache busting
- HTML Layout
 - The "row" eg <div>, , <h1>
 - The layers eg styles on <body>
- Linking to a JS file

Homework

- · Reading about basics of UX
- · Blog page with working comments section

Week 3

- · Discuss reading
- · Indentation and good coding habits
- Favicon
- HTTP vs HTTPS
 - Encryption and Decryption
 - o Man-in-the-Middle attacks
- · Multiple pages with a shared banner

Homework

• Multi-page Portfolio site with interconnected links, reusing the same CSS

Week 4

- <meta> properties and social links / previews
- Introduction to JS
 - Function calls
 - Numbers vs Strings
 - Variables
 - Syntax
- Introduction to Canvas

Homework

· Website with a picture, painted using JS

Week 5

- Introduce jQuery
- Deeper dive on JS
 - Defining functions
 - o jQuery to manipulate CSS
 - o jQuery to listen for user clicks
 - Tracking state with variables
 - Conditionals
 - o \$(this)

Homework

- · Reading about modern technology and Al
- Website with JS-powered interaction to change the visuals

Week 6

- · Discuss reading
- CSS transitions
- Mobile design

Homework

· Website that displays well on both desktop and mobile

Week 7

- Explaining Botnets and DDoS
- · What happens when I'm hacked?
 - Extortion via Hacking
- CSS animations

- <audio> elements
- Embedding YouTube and &autoplay=1

Homework

- Jukebox website
- Begin planning Final projects

Week 8

- URL Params
- Setting up your own project/web page hosted by GitHub
- Meeting 1-on-1 to discuss Final proposals

Homework

• Begin working on Final Project

Week 9

- · Starting a software business
 - Protecting IP
 - o Contractors vs Fulltime Developers
 - Equity as Compensation
 - Tech Recruiting
- Setting up DNS vs Hosting
- Meeting 1-on-1 to review Final drafts

Homework

• Finish the Final Project

Week 10

• Present Final Project in class