Web Advance: Javascript

PGTE: 5505 | Section E | CRN: 8108

Instructor: Karla Polo

Class 1: Introduction to JavaScript

Today's Menu

Get to know you.

Let's talk about syllabus.

Github class repo.

Refresh your memory with some coding.

Who am I?

http://karlapolo.com

Who are you?

Are you registered or are you on the waiting list?
Name?
1st / 2nd year?
On a scale of 1-10, how good are you at web?
What do you hope to learn in this class?
Hobbies? I won’t judge!

Syllabus

https://drive.google.com/open?id=1XGcFWnIW2Z4QTyFSvBJOwSECFokdzihM

WHY CODING?

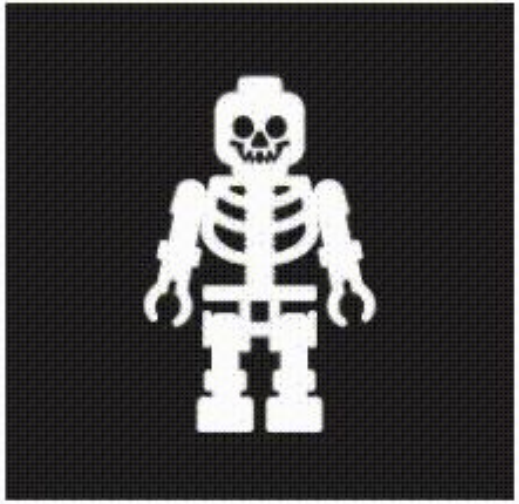
Why Coding?

Age of Specialization.
Many available tools to generate code.
Coding is difficult to master.

But ...

Better understanding of the process needed to build.
Better control in defining execution params.
Create better and more efficient designs.

HTML
structure



CSS
presentation/appearance

JavaScript
dynamism/action

What is JS?

- Is a Programing Language
- Runs in your browser, not in a server like most programing languages.
- Provides Interactivity
- Provides real-time content updates
- Enables animations
- Allows for many approaches to Design Patterns
- Frameworks: jQuery, Angular, Vue, React

*Java & Javascript are not related. They are two different programing languages.

What Can Javascript do?

Generative:

http://color-wander.surge.sh/

Practical:

https://codepen.io/TheVVaFFle/project/editor/ZRbWaG#0

https://codepen.io/giana/pen/GJMBEv

Informative

http://www.histography.io/

Apps

http://uber.com

Functional

http://kenwheeler.github.io/slick/

3D

http://alteredqualia.com/three/examples/webgl_city.html

Tools of the Trade

Text Editors

Sublime Text: https://www.sublimetext.com/

Atom: https://atom.io/

Chrome DevTools: https://developer.chrome.com/devtools

Browsers (latest versions)

Chrome: https://www.google.com/chrome/

Firefox: https://www.mozilla.org/en-US/firefox/

Vivaldi: https://vivaldi.com/

Debugger

(Built in browser Developer Console)

Jshint: http://jshint.com

Let’s Set Github

https://github.com/KayPolo

15 Minutes!!!

If you're not registered, email me!
karla@newschool.edu

Let’s Refresh

HTML

-Semantic HTML tags

-Newer HTML5 tags: <section> <header> <nav> <footer> <article>, etc

-Including CSS

-Including JS

-Importing custom fonts and other assets

CSS

-Inline, Internal, External Styles

-Basic CSS Selectors

-Values & units (px, %, em, rem)

-Basic web color principles (RGB, RGBA, hexadecimal color, HSL)

-CSS Layout (The Box Model)

-CSS Positioning

-Floats and clearfixes

-New CSS Features (box-shadow, text-shadow, etc)

-Responsive CSS with media queries

JS: Back to Basics

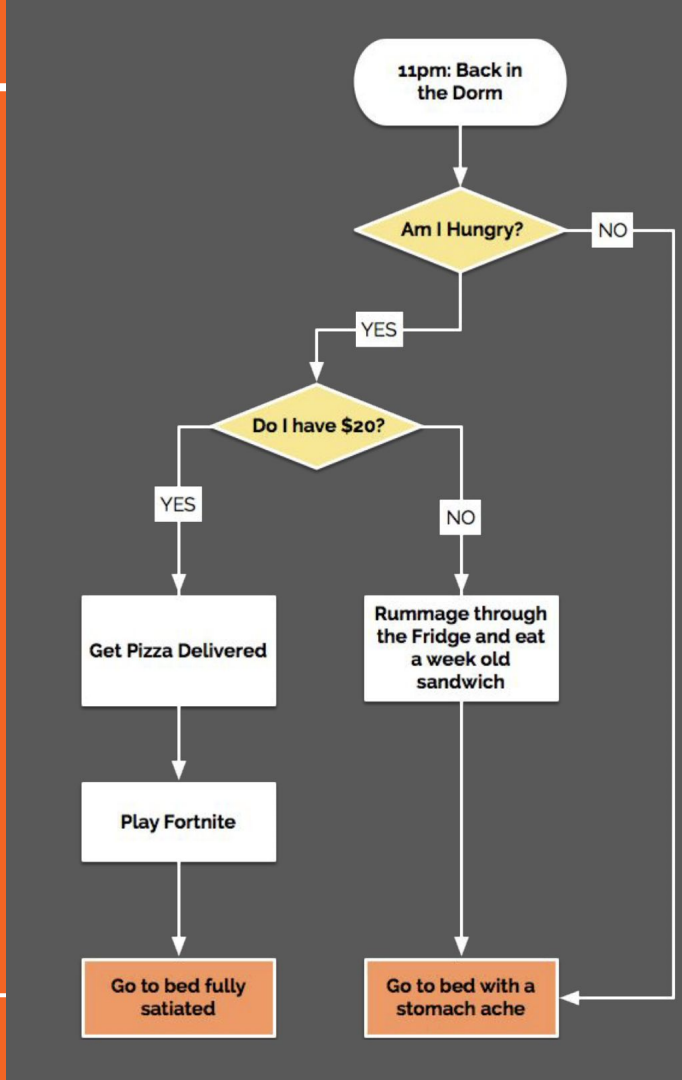
- JS definitions
-Variable and Data types
-Arrays vs Objects
-Iteration
-Conditionals
-Functions: Declarations and Expressions
-Scopes and Closures
-Timing functions

Let's Code

HW

Decision Tree:

Find a regular online or physical activity or task that requires some interaction and decision-making. Write the process flow out in detail.
eg. Dining Options back in the Dorm:



HW

Codecademy: Introduction to JS

https://www.codecademy.com/learn/introduction-to-javascript