
Web Advance: JavaScript

PGTE: 5505 | Section B | CRN: 7792

Instructor: Karla Polo

Class 1: Introduction to JavaScript

Today's Menu

Get to know you.

Let's talk about the 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://github.com/KayPolo/
WebAdvanced_Fall2019/blob/master/
PGET_5505_CRN7792_POLOGARCIAKARLA_FA19.docx](https://github.com/KayPolo/WebAdvanced_Fall2019/blob/master/PGET_5505_CRN7792_POLOGARCIAKARLA_FA19.docx)

WHY CODING?



Why Coding?

Age of Specialization.

Many available tools to generate code.

Coding is difficult to master.

But ...

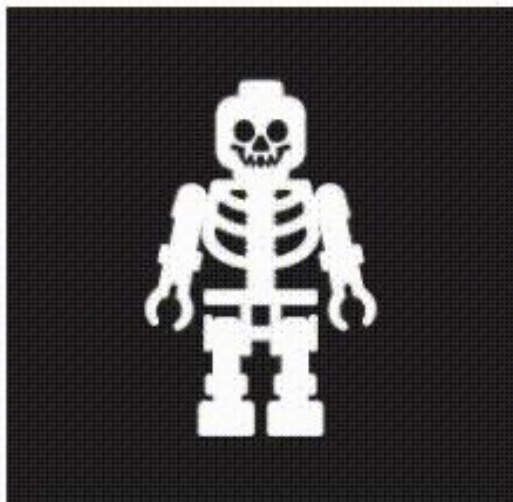
Better understanding of the process needed to build.

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 Programming Language
- Runs in your browser, not in a server like most programming 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 programming 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.histogramphy.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

Visual Studio Code: <https://code.visualstudio.com>

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
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JS: Back to Basics

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

HW

1. Codecademy: Introduction to JavaScript

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

Mandatory: Complete lessons 1-3 (Only those sections that are free)
Submit the higher badge you get to Canvas.

Bonus: Try to go as far as you can, this is going to help you to create a solid foundation for the Web Advanced class.

HW

2. Final Project

Define what project you are going to be developing during the semester from now until you final. Submit your concept and rough ideas to Canvas
