
Web Advance: JavaScript

PGTE: 5505 | Section E | CRN:
6455

Instructor: Karla Polo

Week 1: Introduction to JavaScript

Today's Menu

- Introductions. Get to know you.
 - Let's talk about the Syllabus.
 - Github class repo.
 - Refresh your memory with some coding.
-

Who am I?

Karla Polo (she/her)

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<https://karlapolo.com>

Work

DiscoverAvatar ShopCreateRobux

Search


13+78,736




kiki_kube

Friends (58)


See All →




aimmerz




AngelEthereal...




L8X




adminsfol




anotherdino




BetaSmartBot



candyland4...




CaptnBloxxer



Chao


Continue

See All →




Robloxian High School

86% 3K



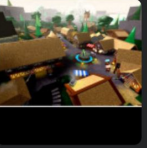
Jailbreak

88% 12.8K



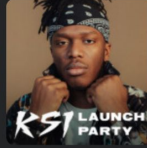
Ragdoll Outfit Tester

75% 0




SOLD

94% 0



KSI Launch Party

72% 82




Dragon Adventures


88% 2.2K

Real World Roleplay


See All →




Brookhaven



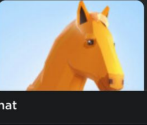
ER:LS



Multiple Babies!

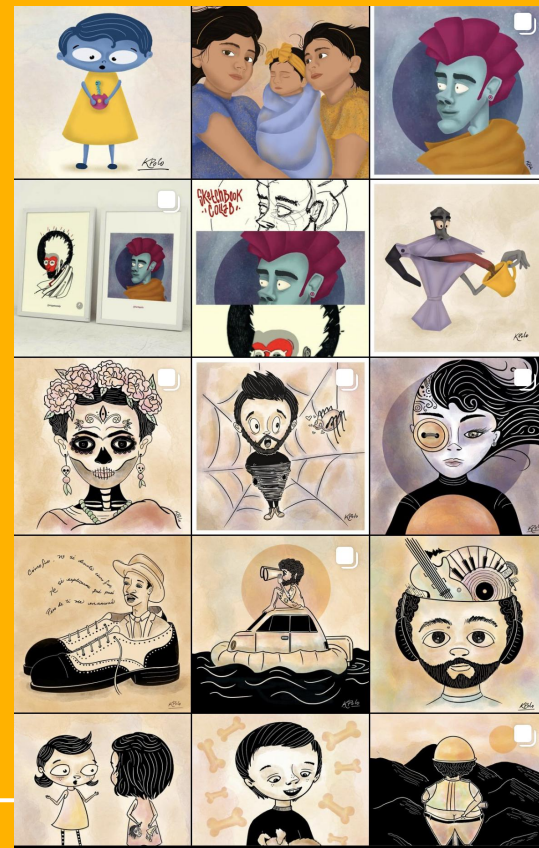


Seaboard City RP



Chat

Fun



Who are you?

- Are you registered or are you on the waiting list?
 - Preferred Name Pronouns?
 - MFA 1st / 2nd year? BFA?
 - Any previous experience with HTML, CSS, JS?
 - What do you hope to learn in this class?
 - Hobbies? I won't judge!
-

Syllabus

[https://github.com/KayPolo/WebAdvanced-JS-Fall2021/
blob/main/Syllabus%20and%20Resources/PGET_5505
_CRN7792_POLOKARLA_FA21.pdf](https://github.com/KayPolo/WebAdvanced-JS-Fall2021/blob/main/Syllabus%20and%20Resources/PGET_5505_CRN7792_POLOKARLA_FA21.pdf)

WHY CODING?



But really, 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.

Brief History of JS

1995

Internet was becoming popular

Web page were static

Netscape builds first commercial web browser.

Marc Andreessen felt that the web needed to become more dynamic

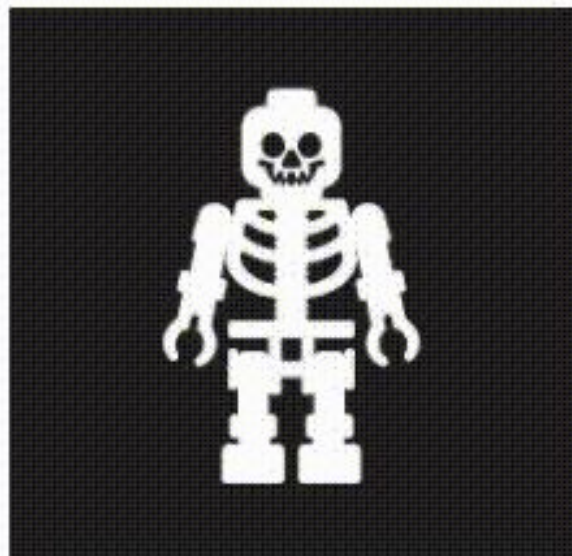
Brendan Eich first project at Netscape was to create a programming language that could run naively in the browser

In 10 days Eich created Mocha which became LiveScript, which was renamed to JavaScript (Not to be confused with Java)

JavaScript is today “THE” programming language of the web.

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: Angular, Vue, Ionic..
- Libraries: React, jQuery, D3, Three, P5...

* 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)

JS Bin: <https://jsbin.com>

Jshint: <http://jshint.com>

Other tools

Codeshare: <https://codeshare.io/>

Let's set up Github

<https://github.com/KayPolo>

15 Minutes!

If you are not registered yet, email me

karla@newschool.com

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
-

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. If you have already
done these lessons in the past, complete from 4-6.**

**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. Midterm Project

Define what project you are going to be developing during the semester from now until you midterm presentation.

Submit your concept and rough ideas to Canvas
