jQuery

jQuery

jQuery

- Let's briefly break down what jQuery is and why you would want to use it.
- Keep in mind this course is not meant to be a full course on Javascript in any way.
- We learn Javascript and jQuery in order to use them with Django later on.

jQuery

- jQuery is a Javascript Library
- It is just a large single .js file that has many pre-built methods and objects that simplify your workflow
- Specifically interacting with the DOM and making HTTP requests (AJAX)

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- Previously we've learned how to interact with the DOM using "vanilla" javascript.
- We were able to use methods such as document.getElementById()
- Later on we learned about methods such as document.querySelector()

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- When jQuery was created, the more robust and convenient methods such as .querySelector() didn't exist!
- jQuery was created as a way to help simplify interactions with the DOM.
- One of its main features is the use of $

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- So how do we get jQuery? We have two options:
  - Link a CDN hosted file (like we did for bootstrap)
  - Download the .js file from jQuery's official website

jQuery

- Once you've connected the jQuery using the <script> tags in your HTML, then you can the specialized jQuery calls, to interact with the DOM.
- Let's see a few examples of how jQuery differs from "vanilla" javascript.

jQuery

```
// jQuery
var divs = $('div');


// Vanilla
var divs = document.querySelectorAll('div');
```

jQuery

```
// jQuery
$(el).css('border-width', '20px');


// Vanilla
el.style.borderWidth = '20px';
```

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```
// jQuery
$(document).ready(function(){ //code });
// Vanilla
function ready(fn) {
  if (document.readyState != 'loading'){
    fn();
  } else {
    document.addEventListener('DOMContentLoaded', fn);
  }
```

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- As you can see some situations are helped tremendously by jQuery while others may not necessitate it.
- Due to its massive popularity, it is still very important to understand it, because you will run it to a lot in the real world!

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- Let's start learning how to interact with the DOM with jQuery!

Part 1 - Basic jQuery

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- Let's start learning how to interact with the DOM with jQuery!
- The relevant file is:
  - Part1_MyDocument.html
- We will be using the console for our commands.

Part 2 - jQuery Events

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- We will be using the same HTML file from the previous lecture.
- We will connect it to a .js file where we will be using jQuery to work with events.
- Let's get started!

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- For this project we will be coding through the creation of a Connect Four Game.
- We will be heavily using jQuery for this project, probably more than we actually should!

jQuery

- This project is completely optional!
- Feel free to only watch, skip completely, or just tackle on your own.
- This project concludes our formal coverage of the Front-End stack, pat yourself on the back!

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- Let's take a look at what the project looks like when completed, and then in the next few lectures we will code through the solution!

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Front End Project Solution - Part 1

jQuery