



# 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 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)



- 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()`



- 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 \$



- 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



- 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

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

//Vanilla

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





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

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



```
//jQuery
$(document).ready(function(){ //code });

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



- 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!



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



# Part 1 - Basic jQuery

jQuery



- 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

jQuery



- 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!





# Part 3 - Front End Project

jQuery



- 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!



- 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!



- 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!



# Front End Project Solution - Part 1

jQuery