

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);
```

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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!





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





Part 1 - Basic jQuery





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





Part 2 - jQuery Events





- 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





- 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

