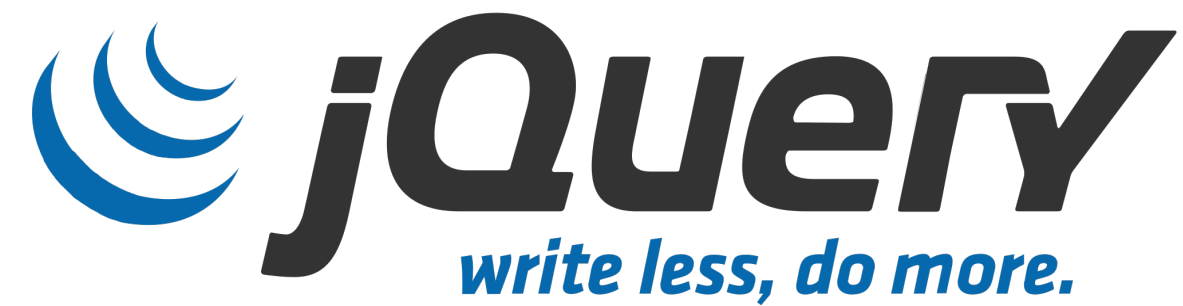


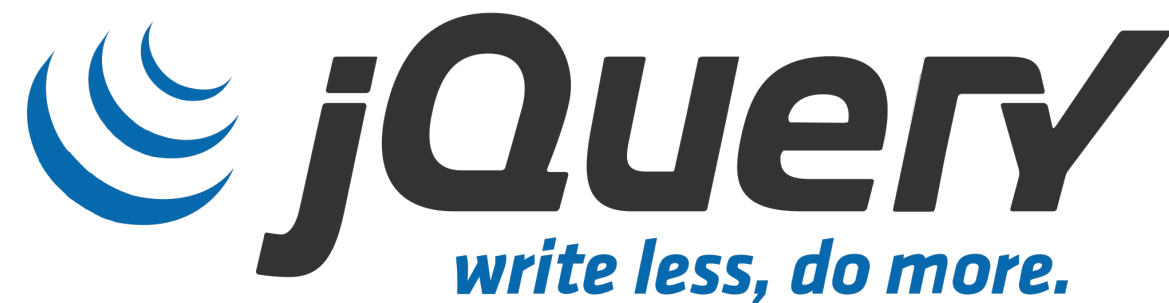
#02

Using External Libraries



#02

Using External Libraries



The purpose of jQuery is to make it much easier to use JavaScript on your website.

External Libraries

Download

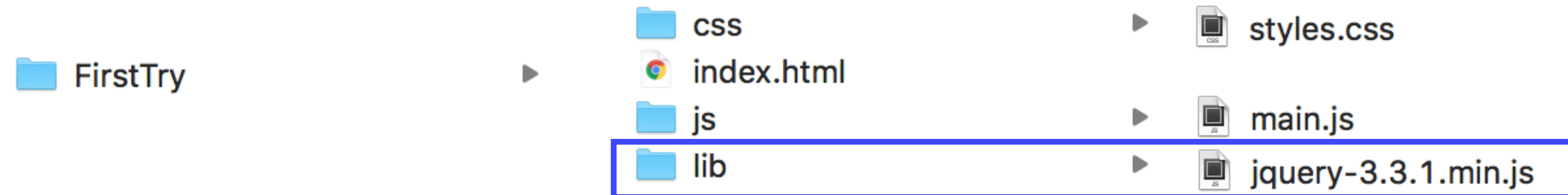
<https://jquery.com/>

<https://p5js.org/>

<https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js>

Get Started

Structure



Get Started

Implement jquery.js

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">

    <!-- Title -->
    <title>prototype</title>

    <!-- Add jQuery library -->
    <script rel="stylesheet" src="lib/jquery-3.3.1.min.js"></script>

    <!-- Add your CSS -->
    <link rel="stylesheet" href="styles.css">
  </head>

  <body>
    <!-- Add your Html elements -->
  </body>

  <!-- Add Javascript file -->
  <script src="main.js"></script>
</html>
```

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">

    // Your Title
    <title>prototype</title>

    // Add Library
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>

    // Add your javascript file
    <script src="js/main.js"></script>

    // Add your css file
    <link rel="stylesheet" href="css/styles.css">
  </head>

  <body>
    // write your html elements
  </body>
</html>
```

Lets Go

First Steps

jQuery Syntax

Basic syntax is: `$(selector).action()`

- A \$ sign to define/access jQuery
- A (*selector*) to "query (or find)" HTML elements
- A jQuery *action()* to be performed on the element(s)

First Steps

jQuery Syntax

Examples:

`$(this).hide()` - hides the current element.

`$("p").hide()` - hides all `<p>` elements.

`$(".test").hide()` - hides all elements with `class="test"`.

`$("#test").hide()` - hides the element with `id="test"`.

First Steps

Wait !

The Document Ready Event:

This is to prevent any jQuery code from running before the document is finished loading (is ready).

```
$(document).ready(function(){  
    // jQuery methods go here...  
});
```

First Steps

Try it!

```
<h2>This is a heading</h2>
```

```
<p>This is a paragraph.</p>
```

```
<p id="test">This is another paragraph.</p>
```

```
<button>Click me</button>
```

Click me -> hide something

First Steps

Try it!

```
<h2>This is a heading</h2>
```

```
<p>This is a paragraph.</p>
```

```
<p id="test">This is another paragraph.</p>
```

```
<button>Click me</button>
```

Who? Why?

```
$(document).ready(function(){  
    $("button").click(function(){  
        $("#test").hide();  
    });  
});
```

Who? What?

First Steps

jQuery Event Methods

- `click()`
- `dblclick()`
- `mouseenter()`
- `mouseleave()`
- `mousedown()`
- `mouseup()`
- `hover()`

First Steps

The on() Method

The on() method attaches one or more event handlers for the selected elements.

```
$( "p" ).on( "click", function() {  
    $(this).hide();  
});
```

First Steps

Try it!

```
<body>
```


```
<p>Click or move the mouse pointer over this paragraph.</p>
```

```
</body>
```

First Steps

Try it!

Change CSS attributes



```
$(document).ready(function(){
    $("p").on({
        mouseenter: function(){
            $(this).css("background-color", "lightgray");
        },
        mouseleave: function(){
            $(this).css("font-size", "30px");
        },
        click: function(){
            $(this).css("margin", "50px");
        }
    });
});
```


First Steps

jQuery - Get Content and Attributes

jQuery contains powerful methods for changing and manipulating HTML elements and attributes.

Three simple, but useful, jQuery methods for DOM manipulation are:

- `text()` - Sets or returns the text content of selected elements
- `html()` - Sets or returns the content of selected elements (including HTML markup)
- `val()` - Sets or returns the value of form fields

`.text() & .html()`

Get Content & Attributes

Add this to your html

```
<p id="test">Hello <b>my</b> World</p>
```

```
<button id="btn1">Show Text</button>
```

```
<button id="btn2">Show HTML</button>
```

`.text() & .html()`

Get Content & Attributes

Add this to your `.js`

```
$(document).ready(function(){  
    $("#btn1").click(function(){  
        alert($("#test").text());  
    });  
    $("#btn2").click(function(){  
        alert($("#test").html());  
    });  
});
```

`.val()`

Get Content & Attributes

Add this to your html

```
<p>Name: <input type="text" id="test" value="Sophia Jackson"></p>
```

```
<button>Show Value</button>
```

`.val()`

Get Content & Attributes

Add this to your `.js`

```
$(document).ready(function(){  
    $("button").click(function(){  
        alert($("#test").val());  
    });  
});
```