

jQuery

“jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers. With a combination of versatility and extensibility, jQuery has changed the way that millions of people write JavaScript.” - [jQuery.com](http://jquery.com)

Selectors

```
7 <div id="book" class="fiction" data-genre="mystery">
8   <span class="title">The Hound of the Baskervilles</span>
9   <span class="author">
10     Sir Arthur Conan Doyle
11     <span class="publicationDate">1902</span>
12   </span>
13 </div>
```

- Id - \$(" #book")
- Class - \$(".fiction")
- Type - \$("span"), \$("div")
- Attribute - \$("[data-genre]") or \$("[data-genre='mystery']")

Selectors

```
7 <div id="book" class="fiction" data-genre="mystery">
8   <span class="title">The Hound of the Baskervilles</span>
9   <span class="author">
10     Sir Arthur Conan Doyle
11     <span class="publicationDate">1902</span>
12   </span>
13 </div>
```

- Multiple selector - \$(".title, .author")
- Combined selector - \$("span.title")
- Chained selector - \$("div .title")

Selectors

```
7 <div id="book" class="fiction" data-genre="mystery">
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12   </span>
13 </div>
```

- Direct Descendent - \$("div > span")
- Filters - :last, :first, :eq(selector), :not(selector), ect

Editing DOM – Insertion Inside

```
1 $( "#book" ).append( $( "<p>append</p>" ) )  
2  
3 $( "<p>append</p>" ).appendTo( $( "#book" ) )  
4  
5 $( "#book" ).prepend( $( "<p>prepend</p>" ) )  
6  
7 $( "<p>append</p>" ).prependTo( $( "#book" ) )
```

Editing DOM – Insertion Outside

```
1 $( "#book" ).before( $( "<p>before</p>" ) )
2
3 $( "<p>before</p>" ).insertBefore( $( "#book" ) )
4
5 $( "#book" ).after( $( "<p>after</p>" ) );
6
7 $( "<p>after</p>" ).insertAfter( $( "#book" ) )
```


Events

- Standard - `$(<selector>).on("<event>", function(event){});`
- Click, change, submit, ect

```
15  $("#book").on("mouseover", function(){  
16      //do stuff  
17  });
```

- Delegation - `$(<outer selector>).on("<event>", <selector>, function(){ //do stuff });`

```
15  $("#book").on("mouseover", ".title", function(){  
16      //do stuff  
17  });
```

Animations

- `$(<selector>).<animationFunction>()`
- `fadeIn`, `fadeOut`, `fadeTo`, `fadeToggle`, ect

References

- API - <http://api.jquery.com/>
- Cheat Sheet - <http://oscarotero.com/jquery/>

Lab

- Refactor the BerlinClock-js project to utilize jQuery