Lab 3: Interactive

Web Pages

Tricia Ngoon

slides by Michael Bernstein, Scott Klemmer, &

Philip Guo

Review questions

•\$("#project1") is how you would select an HTML element w/ the id "project1" in jQuery

- •\$(project I) won't work.Why?
- '\$(#project1) won't work.Why?

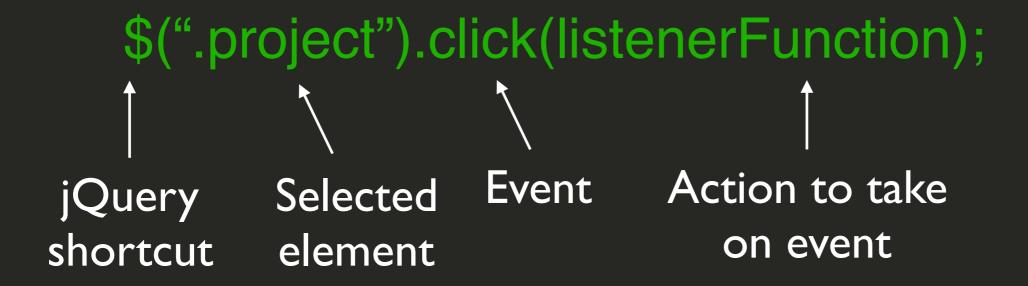
console.log()

- ·A way to check if your code worked
- ·It's like a text message your code is sending you.
- ·It does NOT actually fix your bugs for you or add any sort of functionality or interactivity.

Review: CSS Properties & jQuery

```
Selector → h1 {

Property → color: red;
}
```



CSS Selectors: dot for CSS class name

```
All elements of class "project": $(".project")
```

CSS Selectors: NO dot means HTML element type

```
All  elements: $("p")
```

CSS Selectors: spaces indicate hierarchy

All elements inside an element of class "project": \$(".project p())

CSS Selectors: NO spaces for logical "and"

All elements with class "project":

```
$("p.project")
```

CSS Selectors: # for CSS element id

The element with id "project2":

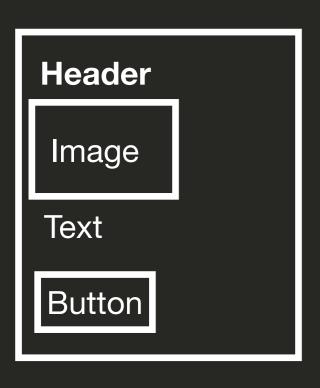
```
$("#project2")
```

Putting it all together

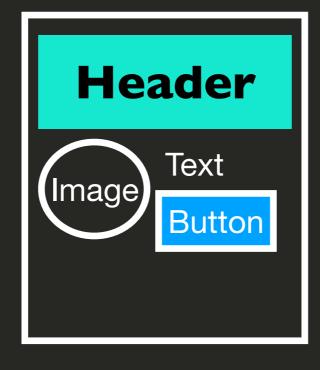
Site Structure

Site Styling

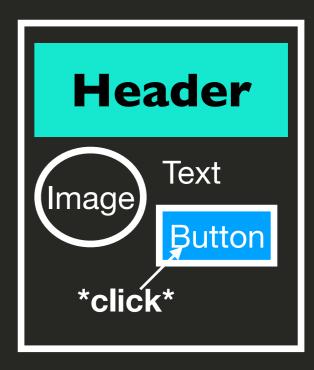
Site Interactivity







CSS {}



Javascript/jQuery \$()

Replace instead of append

- ·\$("some_selector").append("some_html"): adds content
- ·\$("some_selector").html("some_html"): replaces content
- •\$("some_selector").text("some_html"): replaces text
- •\$("some_selector").remove(): gets rid of the element

Example:

```
$(".description").text("New text");
```

Adding a CSS class

Select the element, then call addClass()

```
Example:
var description = $(".description");
description.addClass("active");

-----
.description.active {
  border: 1px solid #ee3223;
}
```

Remove, and toggle CSS classes

- You can remove classes with removeClass()
- ·Or, toggle them on and off with toggleClass():

```
$(".description").click(function(e) {
    $(this).toggleClass("active");
});
```

Why interactive webpages?

·We can interact with elements of a webpage without needing to reload the entire page.

Objective: Let's add some interactivity to your website

- ·Learn to write Javascript functions
- ·Hide/show your project text

Week 3 Goals

- ·Add navigation to your website
- ·Add interactivity to your projects

The console is your friend

·Add debugging statements in your functions to check if they worked

console.log("please work");

·Print some debugging statements to your console

Other jQuery events you might care about

```
•$('#myelement').click(functionName)
when the user clicks

•$('#myelement').keypress(functionName)
when the user types
.$('#myelement').mouseenter(functionName)
when the mouse enters the element
•$('#myelement').mousemove(functionName)
every time the mouse moves within the element
•$('#myelement').submit(functionName)
when a form is submitted
·http://learn.jquery.com/events/event-basics/
```

Append to an element

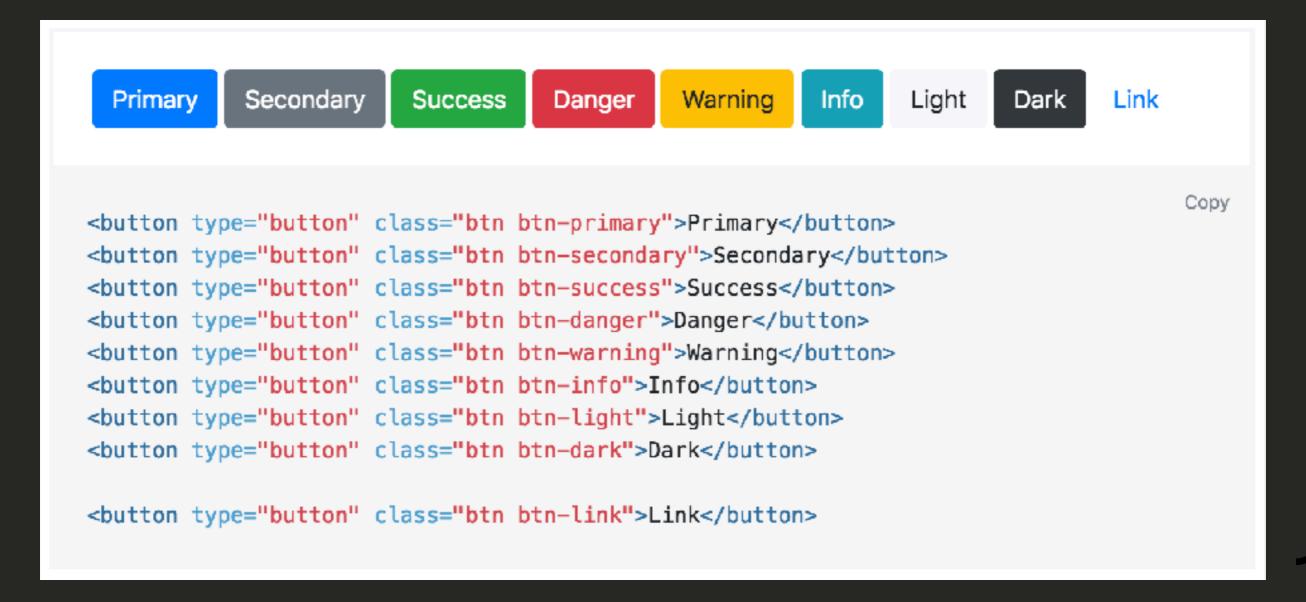
```
'$("some_selector").append("some_html")

adds some_html to the end of the element

Example:
$(".description").append("New text");
```

Adding buttons

Bootstrap has preset button classes for different types of buttons: https://getbootstrap.com/docs/4.0/components/buttons/



Make your navigation bar

Bootstrap has great pre-made examples of navbars: https://getbootstrap.com/docs/4.0/components/ navbar/

- ·Copy/paste a navbar exmple you like to your code.
- *Remember that divs are structured vertically, so your navbar should be at the top of your content in your <body>.

Change your navigation items

Examples:

```
<a class="nav-item nav-link href="#">About</a>
```

Projects

Contact

Let's make that navigation interactive

- ·Give each of your sections ids
 - '<div id="#about"></div>
 - '<div id="#projects"></div>
 - '<div id="#contact></div>

Let's make that navigation interactive

- ·Then make the hrefs of your nav items these ids:
 - About
 - Projects
 - Contact

What does this do?

Show which nav item is active

- ·What do we want to do?
 - 'We want the nav item we click on to have the class "active"
 - ·All other nav items should not have the class "active"
 - *Hint: we'll use the .toggleClass() and .removeClass() events

Hide/show project info

- You can show and hide content on your page using JavaScript as well
- ·In your projectClick() function, add this line:

```
$(this).parent().next().toggle();
```

Week 3 Goals

- ·Add a navbar to your website
- ·Add interactivity to your projects

Commit and Push all your work to Github, then submit Assignment 3 at:

https://tinyurl.com/dsgn90-a3