art 4217

Advanced Digital Applications

Lesson 11 - 12 : JS + jQuery

Ashwin Anandani

Continue on your App UI

The rest of the pages

Plan out new pages as blocks first

http://codepen.io/ashwinbsd/pen/QpZrrw

Connect your pages using:

Intro to jQuery

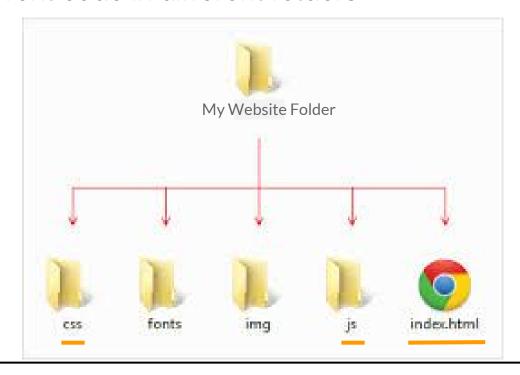
- A new type of code, for interactions
- Hide/Show sample code
- Practical: Try it yourself
- Adding interactions into your code
- Practical: Add interactions to your UI

Code Review

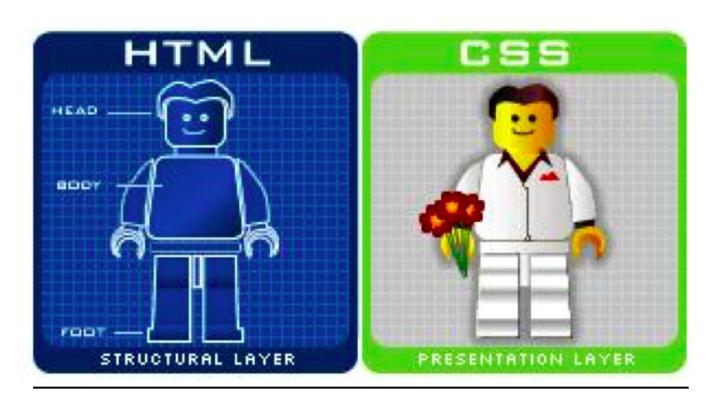
A little demonstration....

How sites are structured

Different code in different folders

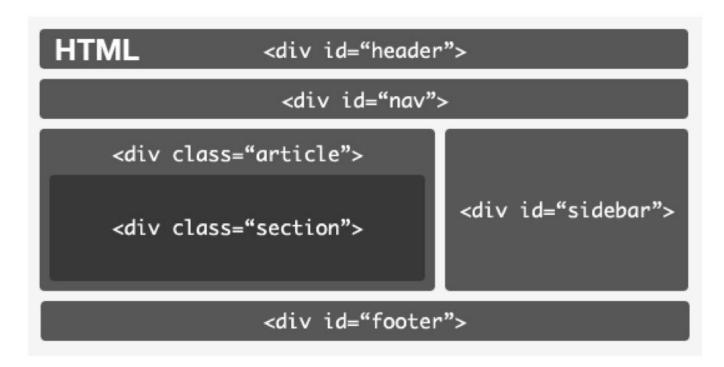


Two Languages To Use



How HTML pages are structured

As a design



HTML Tags

- <head> will *not* be shown on the webpage
- <title> : To set the name in the browser tab
-
<body> : Content of the page
- <div> : Divider used to create containers for control
- <h1> ... <h6> : Header tags for titles (with pre-set sizes)
- : Use for regular writing
- <a> : Link to another site
- : For images

CSS needs to talk to the HTML: ID and Class

Class is for styles you want to use over and over

ID is for something really specific

```
<div class="col2" >
<h2>HomePage</h2>
        <img src="images/Skateboarder-2.jpeg" alt="Skateboarder-2" id="
        floatRight">
```

CSS uses # to choose IDs, and . to choose Classes

```
float:left;
width:46%;
padding:0 2% 1em 2%;
overflow:hidden;
position:relative;
left:-75%;
}
```

```
#floatRight {
    float:right;
}
```

Now we make them move...

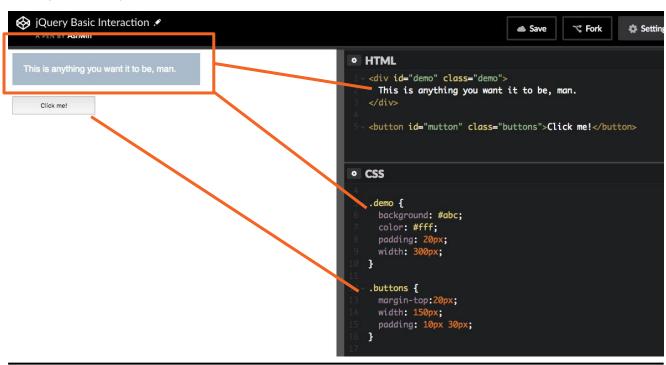
CodePen.io/ashwinbsd/pen/wJozjy

Try It

Create some basic interactions

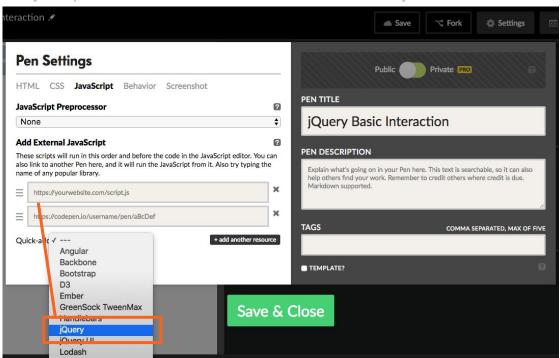
First we make a <div> to move

Keep it simple to start



Then we add jQuery

Very important! But can also do other way around



I want to make a flip

Not really, but some of you do

```
WLUTH: LOWPX;
                               padding: 10px 30px;
                              .animate {
 Makes it
                               transform: rotate(180deg);
 happen
                               -webkit-transform: rotate(180deg);
                               transition: all 1s ease;
 Controls
speed and
 makes it
  smooth
```

```
This is like saying <html>
```

```
JS
 $(document).ready(function() {
   $("#mutton").click(function() {
     $("#demo").toggleClass('animate');
  });
 3);
```

Make it flip when you click the button

This is like saying <html>

First we select the object

```
JS
 $(document).ready(function() {
   $("#mutton").click(function() {
     $("#demo").toggleClass('animate');
   });
 });
```

```
This is like
   saying
 < ht.ml>
                          JS
First we select
                           $(document).ready(function() {
    the object
Then the
 action
                              $("#mutton").click(function() {
                                $("#demo").toggleClass('animate');
                              });
                           });
```

```
This is like
   saying
  < ht.ml>
                            JS
 First we select
                             $(document).ready(function() {
    the object
Then the
  action
                               $("#mutton").click(function() {
                                  $("#demo").toggleClass('animate');
Then the object it
        affects
                                });
                             });
```

toggle)

```
$(document).ready(function() {
                                $("#mutton").click(function() {
Then the object it
        affects
                                  -$("#demo").toggleClass('animate');
       The 'method'
       (add / remove
             class)
                             });
            and its
         'parameter'
        (the class to
```

Make it flip when you click the button

```
$(document).ready(function() {
                       $("#mutton").click(function() {
affects
                         $("#demo").toggleClass('animate');
                      });
The 'method'
(add / remove
     class)
     and its
 'parameter'
```

Then the object it

(the class to toggle)

Create a 'toggle' button

To start and stop an animation

- Use <u>codepen.io</u>
- Create a <div> and a <button>
- Use .toggleClass('animate')

to make an animation stop and start

See the whole thing

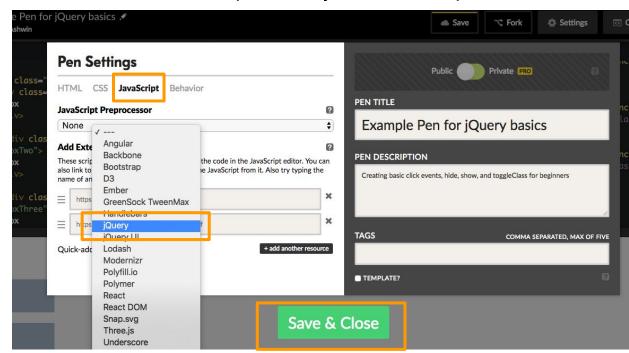
codepen.io/ashwinbsd/pen/gWodPq

How does it work?

Understanding jQuery

First we add jQuery

This is like Bootstrap; a way to code quicker



• It has to start with this:

```
$ (document) . ready (function() {
```

• And it has to end with this:

```
});
```

• It <u>has</u> to start with this:

I'm using jQuery

```
$ (document).ready(function() {
```

It has to start with this:

I'm using jQuery

```
$ (document) .ready(function() {
```

This is the thing I want to do something to

It has to start with this:

I'm using jQuery

Method (the action)

This is the thing I want to do something to

It has to start with this:

```
Method (the action)
```

Hide

• INSIDE that other stuff, is this stuff:

```
$("#TheID").click(function() {
    $("#Thing").hide();
});
```

Show

```
$("#TheID").click(function() {
    $("#Thing").show();
});
```

ToggleClass

This is more common

```
$("#TheID").click(function() {
    $("#Thing").toggleClass('hidden');
});

The class to turn on and off
```

ToggleClass

• The CSS for that is then:

```
.hidden {
    display: none;
}
```

CSS needs to talk to the HTML: ID and Class

Class is for styles you want to use over and over

ID is for something really specific

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overflow:hidden;
position:relative;
left:-75%;
}
```

```
#floatRight {
    float:right;
}
```

See all three:

CodePen.io/ashwinbsd/pen/doEedx

Export your code in the end



Add additional pages from the UI

And link them to each other

- Use
- Understand how to link your CSS correctly
 - One CSS file for all HTML files
 - o Use <link ref="style.css">

Sync all your work

To GitHub, and give me address

Continue using GitHub



You may need to **clone**

If so, ask me about it

If you don't see stuff online

- Make sure you're using username . github.io
- Make sure it is in the folder with the same name on your computer
- Make sure you have Committed & Sync-ed using
 Github Desktop

Get it working properly online

There's a lot of debugging now

- Use
- Understand how to link your CSS correctly
 - One CSS file for all HTML files
 - o Use <link ref="style.css">

Finish off for the final!

Final Presentation Schedule + Deets

Please tell us all:

The following items must be your presentation

- What is the overall idea/concept
 - AND Which 2 softwares did you use?
- What kinds of people will use/consume this
- How did you create your app layout?
- Guide us through one block of your code

7 minutes each

5 mins presentation + 2 mins Q & A

GROUP 1 5 min break	GROUP 2 5 min break	GROUP 3
1. Ng Ka Wun	6. Tam Yuet Yau	11. Yau King Yeung
2. Wong Hoi Fung	7. Yick Yau Sze	12. Li Hoi Kit
3. Kong Sze Man	8. Lee Wai Fong	13. Lai Ka Chun
4. Wong Yee Lei	9. Yau Chun Yam	14. Chan Chung Yin (Ricky)
5. Ng Yu Kwan	10. He ZhiWen (Kris)	15. Li Wing Chi

This deck is now at:

http://ashportfolio.github.io/art4217/decks/lesson-11-12.pdf