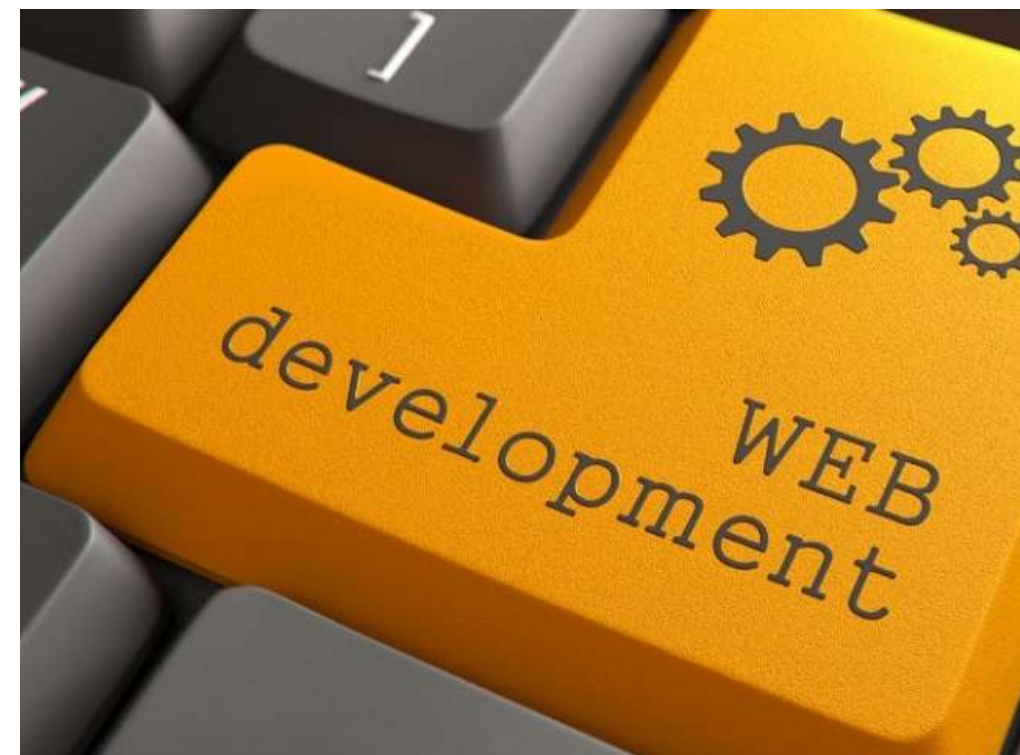




CSCI 165

Introduction to the Internet and the World Wide Web

Lec 3: Graphics II



Jetic Gū

Overview

- Focus: Web Development
- Architecture: Internet
- Core Ideas:
 1. JQuery and Graphics
 2. Basic Animation

jQuery Continued

Yap.

jQuery Stuff

- To use jQuery
 - Load the jQuery library using `<script>`
 - Prepare jQuery code inside a `setup()` function
 - Load the `setup()` function in `jQuery(document).ready(setup)`

jQuery Stuff

- Hint: in jQuery, you can use `$ (...)` to replace `jQuery (...)`
- The following are identical:
 - `jQuery('p').click(say_cheese)`
`$('p').click(say_cheese)`
 - `jQuery('#changeme').html('Somebody clicked me.')`
`$('#changeme').html('Somebody clicked me.')`
- Why? Because programmers are lazy, and we couldn't be bothered to type 5 more letters

jQuery Stuff

- Change class

```
$('#element').attr('class', 'highlight')
```

- Change CSS

```
newstyle = {  
    'color': '#f60',  
    'font-size': '1.5em'  
} // this is a js object, similar to python dict  
$('#element').css(newstyle)
```

- `newstyle` is a javascript object, similar to a python dict. The syntax is a bit different from in CSS files.
- All keys and values need to be inside a pair of quotation marks.

jQuery Animation

- jQuery can animate any "numeric" CSS property. e.g.
 - `font-size: 10pt -> 20pt`
 - `height and width: 1pt -> 10pt`
 - `opacity: 0.5 -> 1`
- What if you are not sure? Try it!

jQuery Animation

- First:

```
oldstyle = {  
  'color': '#f60',  
  'font-size': '1.5em'  
}  
$( '#element' ).css (oldstyle)
```

- Animate:

```
newstyle = {  
  'color': '#fff',  
  'font-size': '15em'  
}  
$( '#element' ).animate (newstyle, 2000)
```

- 2000 here is the time for which this animation takes

jQuery Animation (Fun)

- Fun fact: `animation` is a CSS attribute, just like `font-size`!
- Try:
 - In your CSS file, add:

```
@keyframes meow {  
  from {background-color: red;}  
  to {background-color: yellow;}  
}
```
 - In your javascript (`control.js`), change the following
`'animation': 'meow 1s linear 0s infinite alternate'`