### today

view: studio 2

introduce studio 3: the archive

topic: events, arrays, images, random, preload

### thursday (groundhog day!)

**read:** ch 4, 12, 13

**book exercise:** 13-the cat's hat

**studio 3:** sketch, image files ready to use **project:** topic choice & partnerships

studio

view: studio 2...if your file does anything special, show us :)

process: topic & partnership

**introduce**: studio 3, the archive

winnie, li, lbdo, maggie, naveen, tiffany, darren law, patrice

### debug

validate your html/css (and use web developer toolbar)

use console.log() to send messages

scale coding by starting small, getting it work and then adding complexity

do a web search of your question (w3schools, codeacademy)

print your code and read it away from the screen

rubber ducky (or human friend) method :)

post to Discussion & email glenda **and** Spencer, give context to post (what have you tried, what do you think the problem is, etc)

take a break; do something else that is productive

### troubleshooting browsers

command-shift-r reloads from file or server but not from the cache

clear the cache

do not just refresh browser page...close and reopen file

close and restart your browser

try a new browser

### js changes the html and the css

### js finding html elements

document.getElementById(id) document.getElementsByTagName(name) document.getElementsByClassName(name)

var myMsg=document.getElementById('myMsg');

### js change html

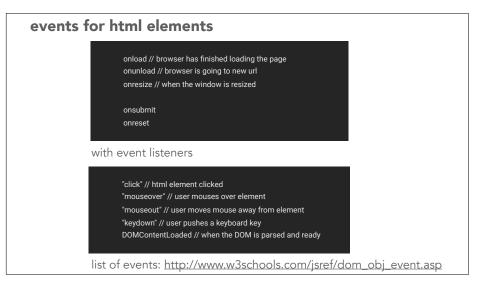
element.innerHTML = new html content;

element.attribute = new value;

element.setAttribute(attribute, value);

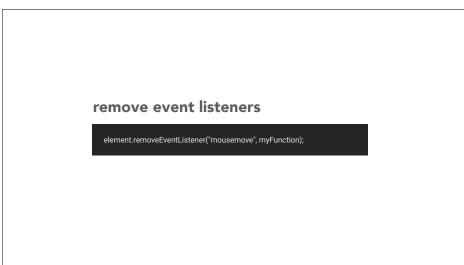
### element.style.property = value; element.className = class; element.classList.add("classname"); element.classList.remove("classname"); element.classList.toggle("classname"); document.body.style.display= "none"; document.body.className = "hide"; var myMsg = document.getElementByld('myMsg'); myMsg.style.display="none"; myMsg.className = "hide"; element.classList.add("hide");

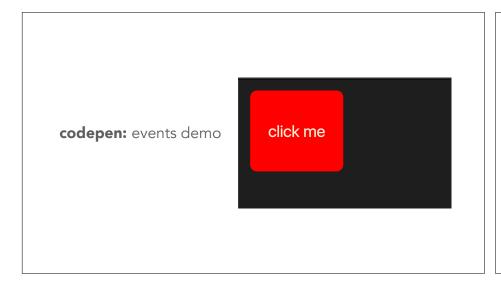












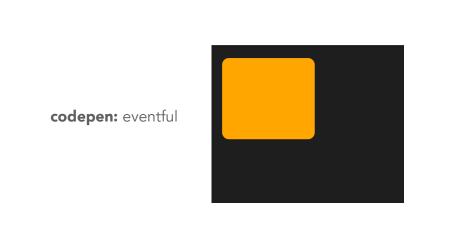
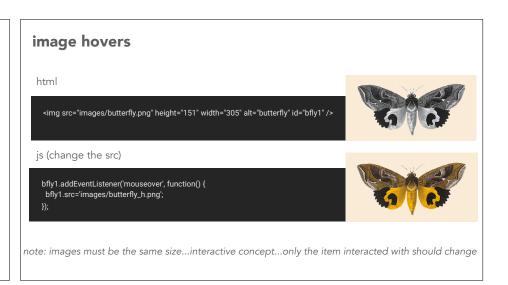


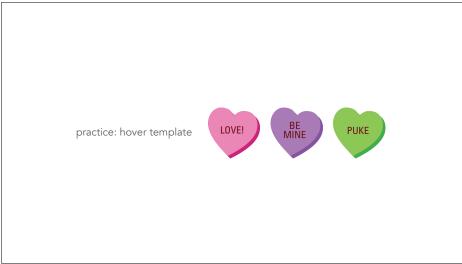
image rollovers



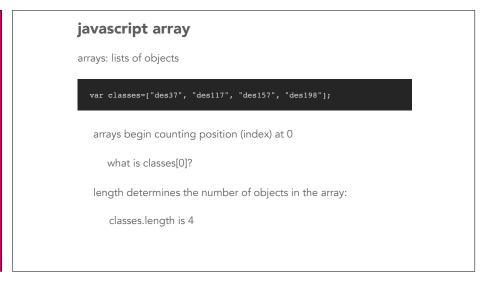
## document.getElementByld(id) document.getElementsByTagName(name) document.getElementsByClassName(name) var myMsg=document.getElementByld('myMsg'); js change html element.innerHTML = new html content; element.attribute = new value; element.setAttribute(attribute, value);



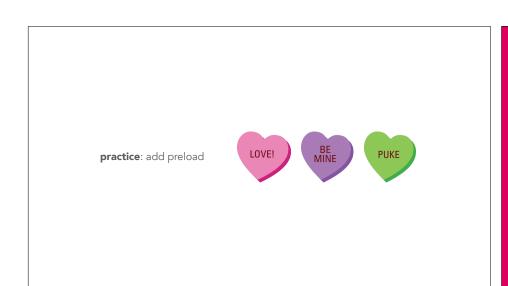




# arrays and preload



### jQuery image preload





### Math.random()

Math.random(); // returns a number between 0 (inclusive) and 1 (exclusive)

the result could be 0.5295967489150062

return a number between 1 and 10

Math.floor((Math.random() \* 10) + 1); // other methods include Math.round() and Math.ceil()



**codepen**: image demo preload random

**practice**: add random





what do you call this...hahahaplop?

**codepen**: show hide lightbox

