today

view: studio 1topic: html forms, js basicsintroduce studio 2: madlibs 2.0

tuesday

read: eloquent js, ch 1, 2, 3 (ch 18 optional) due: book ex ch 2 and ch 3 studio 2: sketches

studio

view: st 1 (portal and blog)

describe: intent, content

show: validation

code view and any questions/problems

or special discoveries/successes

interactive grading: with Spencer during studios

the bottom line

you have to write and understand your own code

problems? questions?

- 1. post questions to Discussion forum on Canvas
- 2. email (Spencer && glenda)...!(Spencer || glenda)

beware of copying/pasting my code due to quote issues

\$000 \$000 \$

MAD@LIBS°

From VACATION FUN MAD LIBS* * Copyright © 1988 by Price Stem Sloan, a division of Penguin Putnam Books for Young Beaders, New York.

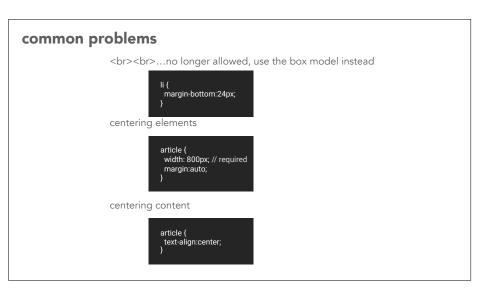
mad libs 2.0: previous student examples

Jane Go
Tim Stapleton
Jennifer Wu
James Kim
Patrice Ehlert
Tonya Rodham
Deborah Bazsuly (error detection)

after this, experienced js students may leave

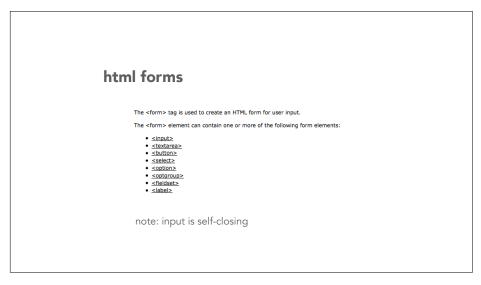
studio 2: madlibs 2.0

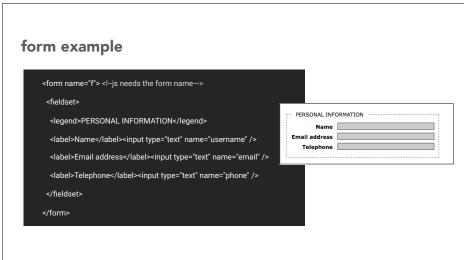
bad habits are hard to

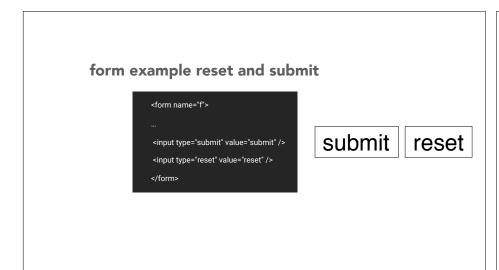


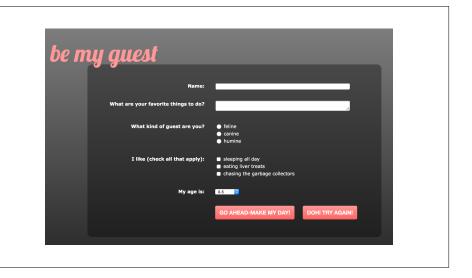
open link in a new tab

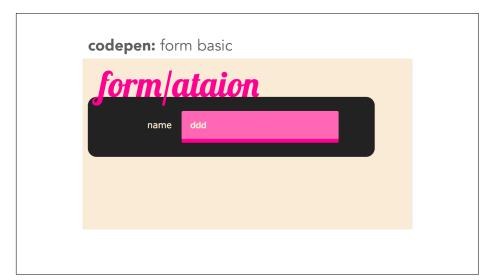
we want to have good <form>













javascript

considered **object-based** (create objects that are then targeted with methods and properties) & **event driven**

most popular development language in the world :)

content / presentation / behavior

content / presentation / behavior .html .css .js

browser wars

DOM scripting: the code only modifies pages via manipulation of the W3C DOM (no use of proprietary, non-standard or deprecated properties)

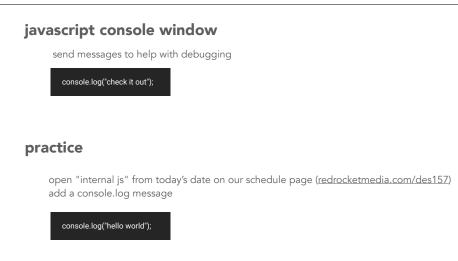
unobtrusive scripting: keeping the behavior entirely separate from the content (external files). users don't need JavaScript to view/interact with the site, but the experience is richer with the js

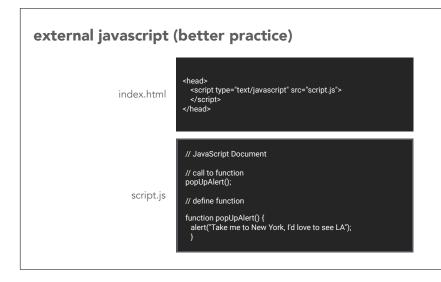
like css, there are several locations for js

in studio1, we put the link to the external js right before </body>

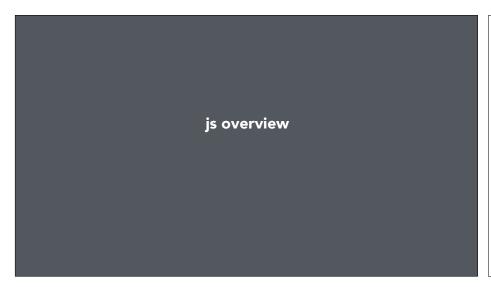
... <script type="text/javascript" src="script.js"> </script> </body>

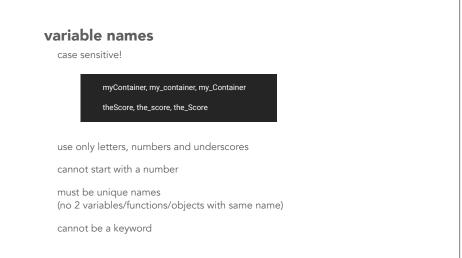












variable declaration keyword var var userName; multiple declarations on one line var userName, userAge, highScore;

range within which a variable or function is available... global or local, depends on where defined //global variable var i = 5; function moveMC0{ myGraphic.x += i; //update global variable i++; } function moveMCmore(){ //local variable var myNum = 7; myGraphic.x += myNum; //update local var myNum++; //update global var i++; }



strings concatenation with variables var className="DES 157"; console.log ("Hello " + className); > Hello DES 157

booleans true, false console.log (3 > 2): > true

```
javascript loops

iterative tasks

for (integer variable; condition that checks value of integer; expression that updates value) {
    //code statements;
}

function initAll(){
    for (var i=0; i<24; i++) {
        var newNum=Math.floor(Math.random()*75) + 1;
        myGraphic.x += newNum
    }
}</pre>
```

practice: count me in (looping numbers), template on schedule page

javascript functions organize & reuse code var n="; logNums(); function logNums(){ for (var i=1; i<=7; i++){ n+=i; console.log(n); } }</pre>

```
can have many statements

function getGroceries
go to the store and buy eggplant

function getGroceries
go to the store and buy eggplant
while at the store buy chocolate

can make changes to multiple elements

function changePage
change the background color
function changePage
add padding

function changePage
change the background color
add padding
```

addNums(10,20); function addNums(num1, num2){ var sum = num1 + num2; console.log ("the sum of " + num1 + " and " + num2 + " is: " + sum); }

functions that return values

```
var newSum = addNums(10,20);
console.log("newSum: " + newSum);
function addNums(num1, num2){
  var sum = num1 + num2;
  return sum;
}
```

practice: update looping file by adding a function that accepts two parameters, adds the two parameters together and returns the sum

call the function from a new variable and print the sum to the console