

# JAVASCRIPT

# JAVASCRIPT?

# JAVASCRIPT

A browser-based programming language that adds interactivity to your website.

# JAVASCRIPT

an object-oriented computer programming language  
commonly used to create interactive effects within  
web browsers.

# JAVASCRIPT

a scripting languages, primarily used on the Web. It is used to enhance HTML pages and is commonly found embedded in HTML code. JavaScript is an dynamic language and renders web pages in an interactive and dynamic fashion. This allowing the pages to react to events, exhibit special effects, accept variable text, validate data, create cookies, detect a user's browser, etc.

# JAVASCRIPT?

css

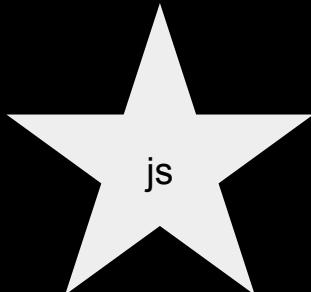


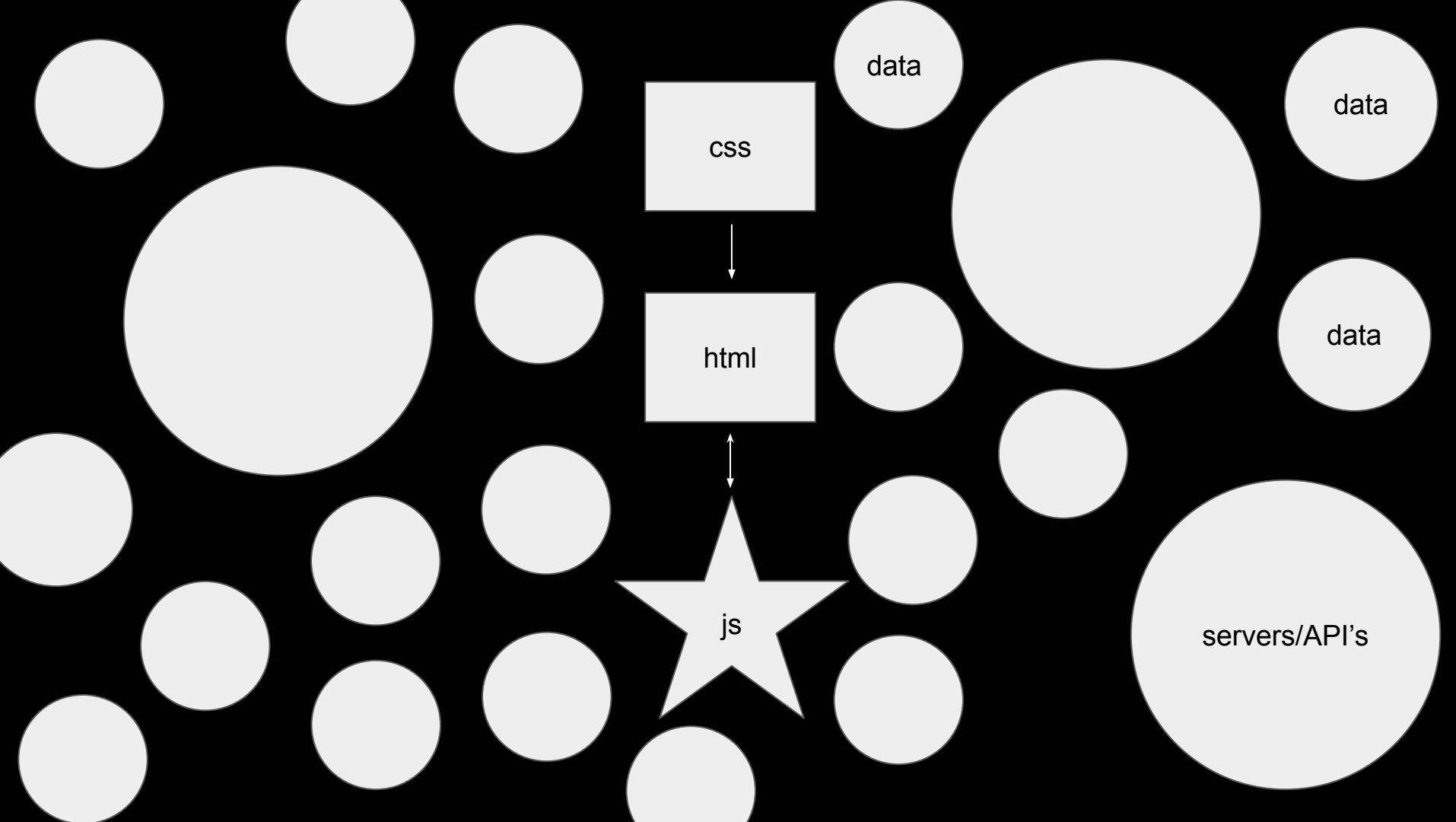
html

css



html





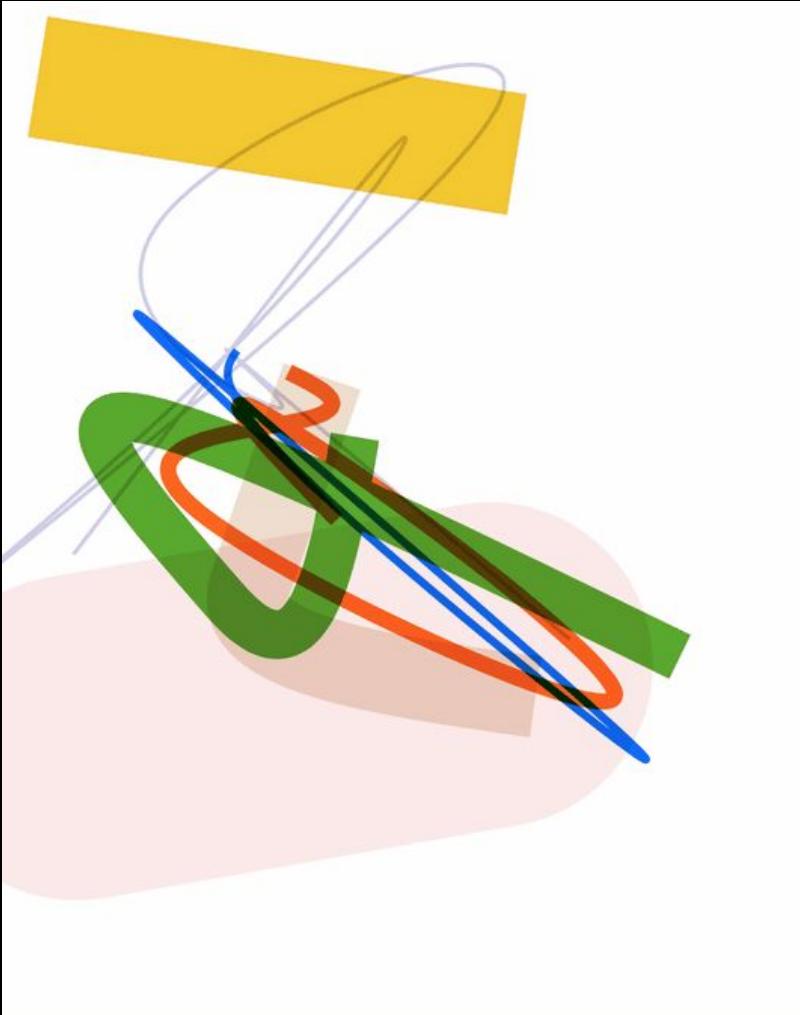
# JAVASCRIPT

Gives you control of a website and its  
relationship with systems that surround it.

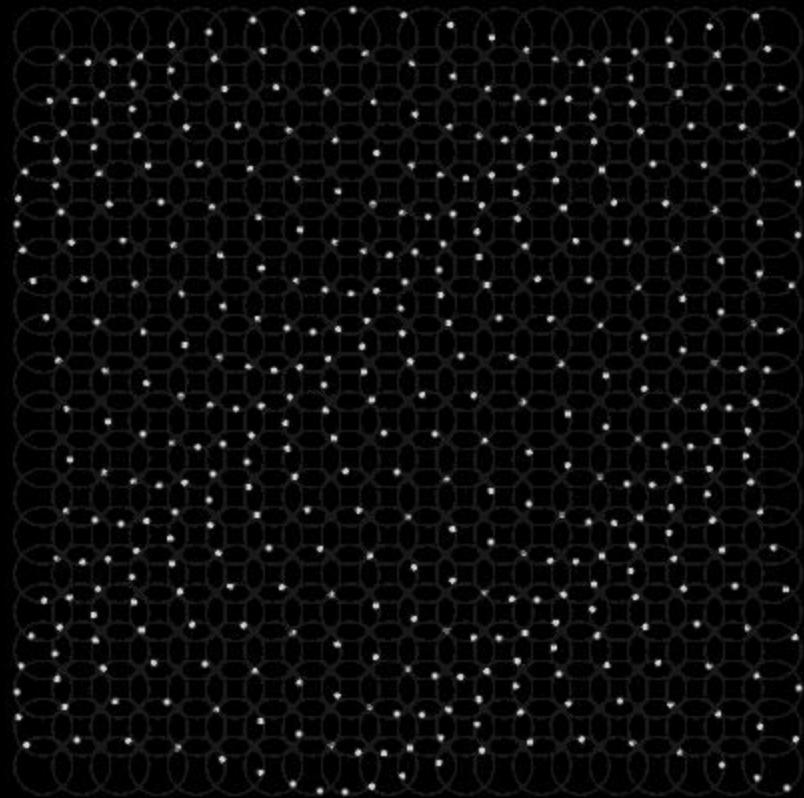
# JS MATH TASKS

Method	Description
abs(x)	Returns the absolute value of x
acos(x)	Returns the arccosine of x, in radians
asin(x)	Returns the arcsine of x, in radians
atan(x)	Returns the arctangent of x as a numeric value between -PI/2 and PI/2 radians
atan2(y, x)	Returns the arctangent of the quotient of its arguments
ceil(x)	Returns the value of x rounded up to its nearest integer
cos(x)	Returns the cosine of x (x is in radians)
exp(x)	Returns the value of E <sup>x</sup>
floor(x)	Returns the value of x rounded down to its nearest integer
log(x)	Returns the natural logarithm (base E) of x
max(x, y, z, ..., n)	Returns the number with the highest value
min(x, y, z, ..., n)	Returns the number with the lowest value
pow(x, y)	Returns the value of x to the power of y
random()	Returns a random number between 0 and 1
round(x)	Returns the value of x rounded to its nearest integer
sin(x)	Returns the sine of x (x is in radians)
sqrt(x)	Returns the square root of x
tan(x)	Returns the tangent of an angle

# PAPER JS



# P5 JS



# YAHOO WEATHER API

← → C 127.0.0.1/temboo/DTemp/index.html

Apps

http://us.rd.yahoo.com/dailynews/rss/weather/New\_York\_\_NY/\*http://weather.yahoo.com/forecast/U  
24 Jul 2014 12:14 pm EDT 60 142 18 http://weather.yahoo.com http://l.yimg.com/a/i/brand/purplelog  
http://us.rd.yahoo.com/dailynews/rss/weather/New\_York\_\_NY/\*http://weather.yahoo.com/forecast/U

**Current Conditions:**  
Partly Cloudy, 81 F

**Forecast:**  
Thu - Partly Cloudy. High: 82 Low: 66  
Fri - Sunny. High: 84 Low: 68  
Sat - Partly Cloudy. High: 84 Low: 72  
Sun - Scattered Thunderstorms. High: 86 Low: 73  
Mon - Scattered Thunderstorms. High: 85 Low: 67

# JAVASCRIPT!

**VARIABLES** STORE DATA  
**FUNCTIONS** EXECUTE TASK(S)  
**IF STATEMENTS** CREATE COMPARISON PARAMETERS  
**FOR LOOPS** DO SOMETHING OVER X

# VARIABLES

## VARIABLES STORE DATA

```
var name
```

## VARIABLES STORE DATA

```
var name = "john"
```

```
var number = 12
```

## VARIABLES STORE DATA

```
var name = "john"  
var number = 12  
var approved = true
```

## VARIABLES STORE DATA

```
var name = "john"
```

```
var number = 12
```

```
var approved = true
```

```
var colors = ["red", "blue", "green"]
```

## VARIABLES STORE DATA

```
var name = "john"  
var number = 12  
var approved = true
```

```
var colors = ["red", "blue", "green"]  
var class = {school:"Parsons",  
            year:"2018",  
            totalClasses:15};
```

# FUNCTIONS

## FUNCTIONS EXECUTE A TASK

```
function class() {  
    console.log(name)  
}
```

## FUNCTIONS EXECUTE A TASK

```
function class(e) {  
    console.log(e)  
}
```

```
class(thing1)  
class(thing2)
```

# IF STATEMENTS

## IF STATEMENTS CREATE COMPARISON PARAMETERS

```
if (temperature > 80) {  
  console.log("hot!");  
}
```

## IF STATEMENTS CREATE COMPARISON PARAMETERS

```
if (temperature > 80) {  
    console.log("hot!");  
}  
  
else {  
    console.log("not hot!");  
}
```

## IF STATEMENTS CREATE COMPARISON PARAMETERS

```
if (temperature == 80) {  
  console.log("80 Degrees!");  
}
```

## IF STATEMENTS CREATE COMPARISON PARAMETERS

```
if (temperature == 80) {  
    console.log("80 Degrees!");  
}  
  
else {  
    console.log("not 80 Degrees!");  
}
```

## IF STATEMENTS CREATE COMPARISON PARAMETERS

```
if (temperature <= 80) {  
    console.log("Less Than OR Equal to 80  
Degrees!");  
}  
  
else {  
    console.log("Over 79 Degrees!");  
}
```

# FOR LOOPS

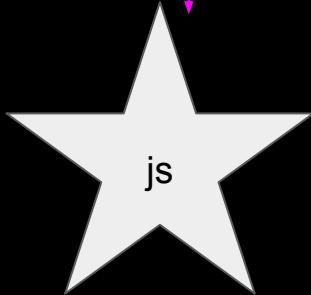
FOR LOOPS DO SOMETHING OVER X

```
//Log 0 1 2 3 4 5 6 7 8 9 10
```

```
for( i=0; i<=10; i++) {  
    console.log(i)  
}
```

css

html



js

# JQUERY

# JQUERY

jQuery is a concise and fast JavaScript library that can be used to simplify event handling, HTML document traversing, Ajax interactions and animation for speedy website development. jQuery simplifies the HTML's client-side scripting, thus simplifying Web 2.0 applications development.

# JQUERY

Target my HTML tags and use JS on them...

## BASIC SYNTAX

```
$ (selector) .action()
```

**\$** to define/access jQuery

**(selector)** to "query (or find)" HTML elements.

**action()** to be performed on the element(s)

## SELECTORS

`$ (document)`

`$ (window)`

`$ ("body")`

`$ ("p")`

`$ (" . class ")`

`$ (" #div ")`

## EVENTS

```
$("#div").load( do something )  
$("#div").mousedown( do something )  
$("#div").mouseenter( do something )  
$("#div").touchstart( do something )  
$("#div").scroll( do something )  
+ Much more....
```

## METHODS

```
$("#div").css('background-color', 'red')  
$("#div").text('new text')  
$("#div").append('$("#newDiv")')  
  
var divWidth = $("#div").width()
```

<https://api.jquery.com/>