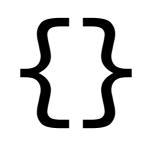
Syntax, Floating Point Numbers and Primitive Types



There is no "Correct" JS style

Less Errors





```
if( true ){
   //do stuff
}
```

if(true){ //do stuff }

if(true) //do stuff



```
if( true ){
   //do stuff
}
```

Semi-colons

```
if( true ){
  var jeff = document.querySelectorAll( ".jeff" );
  jeff.className = "jeff isClassy";
}
```

```
if( true ){
  var jeff = document.querySelectorAll( ".jeff" )
  jeff.className = "jeff isClassy"
}
```

Automatic Semi-colon Insertion

There for help. Not a crutch.

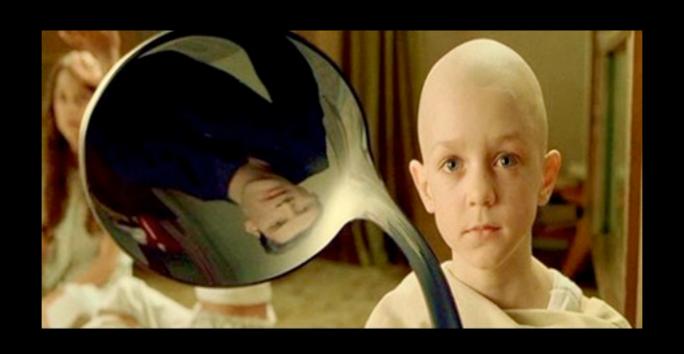
If, else if, else

```
var jeff = document.querySelectorAll( ".jeff" ),
    className;

if( bar === "foo" ){
    className = "jeff isClassy"
} else if( bar === "qua" ) {
    className = "jeff";
} else {
    className = "jeff booooo";
}

jeff.className = className;
```

There is no else if.



```
var jeff = document.querySelectorAll( ".jeff" ),
    className;

if( bar === "foo" ){
    className = "jeff isClassy"
} else if( bar === "qua" ) {
    className = "jeff";
} else {
    className = "jeff booooo";
}

jeff.className = className;
```

```
var jeff = document.querySelectorAll( ".jeff" ),
   className;
if( bar === "foo" ){
  className = "jeff isClassy"
} else {
  if( bar === "qua" ) {
    className = "jeff";
  } else {
    className = "jeff booooo";
jeff.className = className;
```

Braces Optional.



```
while( condition ) {
  // Do stuff
}
```

for loops

```
var arr = [1,2,3,4,5];
for( var i = 0, l = arr.length; i < l; i++ ) {
    // Do stuff
}</pre>
```



var f = new Foo();



```
var f = new Foo();
f.method();
method();
if(condition){
}
var fn = function(param){
};
function fn(param){
}
(function(){
}());
```





```
var obj = Object.create( Object.prototype );
var obj = {};
var obj = {
   key: 'value',
   key2: 'value',
   key3: [values]
};
```

```
var obj = {};
typeof obj; //=> "object"
```



```
function fn(param){
}

var fn = function( param ){
};

var a = "a";
fn(a);
```

```
function fn(){}
var fn1 = function(){};

typeof fn; //=> "function"
typeof fn1; //=> "function"
```



```
var arr = [];
var arr = [1,2,3,4];
var arr = new Array(1,2,3,4);
var arr = new Array(1);
```

```
var arr = [];
typeof arr; //=> "object"
```

```
var arr = [];
Array.isArray( arr ); //=> true
```

```
var arr = [];
arr.length; //=> 0
arr[0]; //=> undefined
var arr = [1,2,3,4];
arr.length; //=> 4
arr[0]; //=> 1
var arr = new Array(1,2,3,4);
arr.length; //=> 4
arr[0]; //=> 1
var arr = new Array(1);
arr.length; //=>1
arr[0]; //=> undefined
```

Wait, what?

```
var arr = [];
arr.length; //=> 0
arr[0]; //=> undefined
var arr = [1,2,3,4];
arr.length; //=> 4
arr[0]; //=> 1
var arr = new Array(1,2,3,4);
arr.length; //=> 4
arr[0]; //=> 1
var arr = new Array(1);
arr.length; //=>1
arr[0]; //=> undefined
```

Always use [] for Array



```
var str = "hi";
typeof str; //=> "string"
```



```
var bool = true;
typeof bool; //=> "boolean"
```



```
2.0.0p247 : 001 > 1.0.class
```

=> Float

2.0.0p247 : 002 > 1.class

=> Fixnum

Try that in IRB

Floating Point Numbers?

0.1 + 0.2 === 0.300000000000004



IEEE 754

Floating Point vs. Fixed Numbers

Floating Point is base 2

Squeezes infinite numbers into tiny space

Activity Time

- JSHint
- Sublimelinter
- https://github.com/rquinlivan/jshint-gem
- Rick Waldron's Idiomatic JS https://github.com/rwaldron/idiomatic.js/
- Read about FP numbers http://
 docs.oracle.com/cd/E19957-01/806-3568/