Object Literal

```
var instructor = {
        name: "Patrick",
        office: "Gates 194"
    };
```

Alternate Object Literal

```
var dog = {
        "name": "Molly",
        "resident": "FloMo"
    };
```

Object Access

```
var instructor = {
        name: "Patrick",
        office: "Gates 194"
   };

console.log(instructor.name);
console.log(instructor["office"]);
```

Alternate Object Literal

```
var dog = {
        "name": "Molly",
        "resident": "FloMo"
    };

console.log(dog.name);
console.log(dog["resident"]);
```

Functions used as Methods

```
function printOffice() {
    console.log(this.office);
}
```

Remember Functions are Objects

```
function printOffice() {
    console.log(this.office);
}
```

same as

```
printOffice = function () {
    console.log(this.office);
}
```

Functions are Objects

```
function printOffice() {
    console.log(this.office);
}

alert(printOffice);
```

=> Function object

What does This refer to?

```
function printOffice() {
    console.log(this.office);
}

var office = "Building 10";

printOffice(); // ??
```

What does This refer to?

```
function printOffice() {
    console.log(this.office);
}

var office = "Building 10";

printOffice();  => prints out "Building 10"
```

What does This refer to?

```
function printOffice() {
    console.log(this.office);
}

var instructor = {
            name: "Patrick",
            office: "Gates 194",
            printStuff: printOffice
    };
var office = "Building 10";

instructor.printStuff();  //??
```

What does This refer to?

```
function printOffice() {
    console.log(this.office);
}

var instructor = {
            name: "Patrick",
            office: "Gates 194",
            printStuff: printOffice
    };
var office = "Building 10";

instructor.printStuff(); => prints out "Gates 194"
```

Common to use Function Literals

```
function printOffice() {
    console.log(this.office);
}

var instructor = {
            name: "Patrick",
            office: "Gates 194",
            printStuff: printOffice,
            printName: function() {
                                console.log(name);
                        }
    };
```

Common to use Function Literals

```
var instructor = {
        name: "Patrick",
        office: "Gates 194",
         printOffice: function () {
                        console.log(this.office);
                },
        printName: function() {
                        console.log(name);
                }
    };
```

Access the Same Regardless of Assignment

```
function printOffice() {
    console.log(this.office);
}

var instructor = {
            name: "Patrick",
            office: "Gates 194",
            printStuff: printOffice,
            printName: function() {
                                console.log(name);
                    }
    };

instructor.printStuff();
instructor.printName()
```

What happens here?

```
var pair = {
        a: 12,
        b: 8,
        sum: function() {
                console.log(a + b);
        }
    };

pair.sum();
```

What happens here?

```
var pair = {
        a: 12,
        b: 8,
        sum: function() {
                console.log(a + b);
        }
    };

pair.sum(); => illegal access
```

What happens here?

```
var a = 4;
var b = 6;

var pair = {
        a: 12,
        b: 8,
        sum: function() {
                console.log(a + b);
        }
    };

pair.sum();
```

What happens here?

```
var a = 4;
var b = 6;

var pair = {
        a: 12,
        b: 8,
        sum: function() {
                console.log(a + b);
        }
    };

pair.sum(); => prints 10
```

This is what you want

```
var pair = {
        a: 12,
        b: 8,
        sum: function() {
                console.log(this.a + this.b);
        }
    };

pair.sum();
```

Careful

```
var name = "Jane Cardinal";
var office = "Building 10";

function printName() {
    console.log(this.name);
}

function printOffice() {
    console.log(this.office);
}

printName(); //??
```

Careful

```
var name = "Jane Cardinal";
var office = "Building 10";

function printName() {
    console.log(this.name);
}

function printOffice() {
    console.log(this.office);
}

printName(); // => prints “Jane Cardinal”
```

Careful

```
var name = "Jane Cardinal";
var office = "Building 10";

function printName() {
	console.log(this.name);
}

function printOffice() {
	console.log(this.office);
}

var instructor = {
		name: "Patrick",
		office: "Gates 194",
		printEverything: function() {
					printName();
					printOffice();
				}
	};

instructor.printEverything(); // ??
```

Careful

```
var name = "Jane Cardinal";
var office = "Building 10";

function printName() {
      console.log(this.name);
}

function printOffice() {
      console.log(this.office);
}

var instructor = {
                  name: "Patrick",
                  office: "Gates 194",
                  printEverything: function() {
                                                printName();
                                                printOffice();
                                    }
      };

instructor.printEverything(); // => “Jane Cardinal” and “Building 10”
```

Do it this way

```
var instructor = {
        name: "Patrick",
        office: "Gates 194",
        printName: printName,
        printOffice: printOffice,
        printEverything: function() {
                        this.printName();
                        this.printOffice();
                }
    };
```

Or like this

```
var instructor = {
        name: "Patrick",
        office: "Gates 194",
        printName: function() {
                        console.log(this.name);
                },
        printOffice: function() {
                        console.log(this.office);
                },
        printEverything: function() {
                        this.printName();
                        this.printOffice();
                }
    };
```