Xtern
BOOTCAMP

Week 1 | Day 3

May 17, 2017

Review

Objects

Creating an object

```
const things = {}
```

Adding properties

```
const things = {
  country: 'USA'
}


things.animals = ['dog', 'rhino']
```

Functions as Properties

```
things.explode = function() {
  alert('KABOOM')
}
```

Accessing Properties

```
things.animals
things['KABOOM']
```

Functions

Function expressions

```
function sum(a, b) {
  return a + b
}
```

Functions as variables

```
const sum = function(a, b) {
  return a + b
}


const sum = (a, b) => {
  return a + b
}
```

Function invocation

```javascript
const sum = function(a, b) {
  // this === ?
  return a + b;
};
sum(2, 3);
```

Function invocation

```javascript
const sum = function(a, b) {
  // this === window
  return a + b;
};
sum(2, 3);
```

Function invocation

```
const sum = (a, b) => {
  // this === ?

  return a + b;
};
sum(2, 3);
```

Function invocation

```
const sum = (a, b) => {
  // this === whatever `this` is in
  // the surrounding function
  return a + b;
};
sum(2, 3);
```

Function invocation

```
myButton.addEventListener((ev) => {
  // this === ev.target
})
```

Methods
(functions as object properties)

```javascript
const thing = {
  explode() {
    alert('KABOOM')
  }
}
```

Method Invocation

```javascript
const thing = {
  explode() {
    // this === ?
    alert('KABOOM')
  }
};
thing.explode()
```

Method Invocation

```javascript
const thing = {
  explode() {
    // this === thing
    alert('KABOOM')
  }
};
thing.explode()
```