

305CDE Lab 3

JavaScript Objects and Functions: Part II

October 2014

Overview

- ▶ Objects
- ▶ Functions

Objects

Prototypes

- ▶ There are *no classes* in JavaScript
- ▶ JS is a “prototypal” inheritance language
- ▶ Objects can inherit properties *directly from other objects*

Functions II

Function Invocation and `this`

Remember from last week:

- ▶ The value of `this` inside the scope of the function *depends on how the function was invoked*:
 - ▶ method (last week)
 - ▶ function (last week)
 - ▶ constructor
 - ▶ `apply`

Constructor Invocation

```
var Quo = function(string) {  
    this.status = string;  
};
```

```
Quo.prototype.get_status = function() {  
    return this.status;  
};
```

```
var myQuo = new Quo("confused");  
myQuo.get_status(); // returns "confused"
```

- ▶ Keyword `new` used during function invocation
- ▶ Creates a new object which includes a link to the function's prototype member
- ▶ Keyword `this` becomes bound to the new object
- ▶ Constructor invocation returns the object