# Lesson 2: Backbone Basics

# 1 Introduction

https://addyosmani.com/backbone-fundamentals/

# 2 Backbone Overview

* small library rather than a framework
* model + view + collection
* dependencies: Underscore + jQuery
* Backbone and Underscore are created by created by DocumentCloud.

Dependencies - http://backbonejs.org/ - http://underscorejs.org/ - loading order \* head: underscore, backbone, handlebars if needed \* body: appjs

Test without a backend - fake online rest api - e.g. JSON placeholder: http://jsonplaceholder.typicode.com/

versions - development - production + source map - edge

Node http-server - check global pkg npm -g ls --depth=0

Backbone Model - extend model - urlRoot - on sync - on change - model listenTo another model

Backbone Collection - super set of array of model - url - on change - comparator (sort) - pluck

Tips from walk thru video - don't trust console tab, try put code in js files - [ ] go thru after the lesson 2

# 3 Backbone Models

http://backbonejs.org/#Model

.extend - sets up the prototype chain - by given object with functions in it - futher extended - .defaults to specify the default attributes

var Car = Backbone.Model.extend({  
 defaults: {  
 doors: 4,  
 wheels: 4  
 },  
 displayName: function() {console.log("car")},  
});  
  
var ford\_fusion = new Car({  
 doors: 2,  
 make: "Ford",  
 model: "Fusion",  
 displayName: function() {console.log("overrided name")}  
});

.get - attribute by given name

.set - attributes by given key/value or object - chain - may trigger change

.unset - remove

.id - unique id - able to re-map by idAttribute

.cid - client id, when has not yet been saved to server

.on(event, callback) or .on({event: cb, event: cb}) - callback of model chagned, same as jquery on - event - change // all properties - change:name // on particular property - change destroy // multiple event -

.toJSON - return object - call JSON.stringify to return a JSON string

Events - http://backbonejs.org/#Events-catalog

# 4 Exercises: Backbone Models

# 5 Project: Editing a Backbone Model

# 6 Project: Managing Multiple Models

# 7 Backbone Collections

# 8 Exercises: Backbone Collections

# 9 Project: Adding a Backbone Collection

# 10 Backbone Views

# 11 Project: Completing the Backbone App

# 12 Project: Todo App Revisited

# 13 Summary

* [ ] go thru Live Session on Backbone Overview