

BackboneJs in Drupal core

DrupalCamp Wroclaw, 14 April, 2013


Who am I?



You?

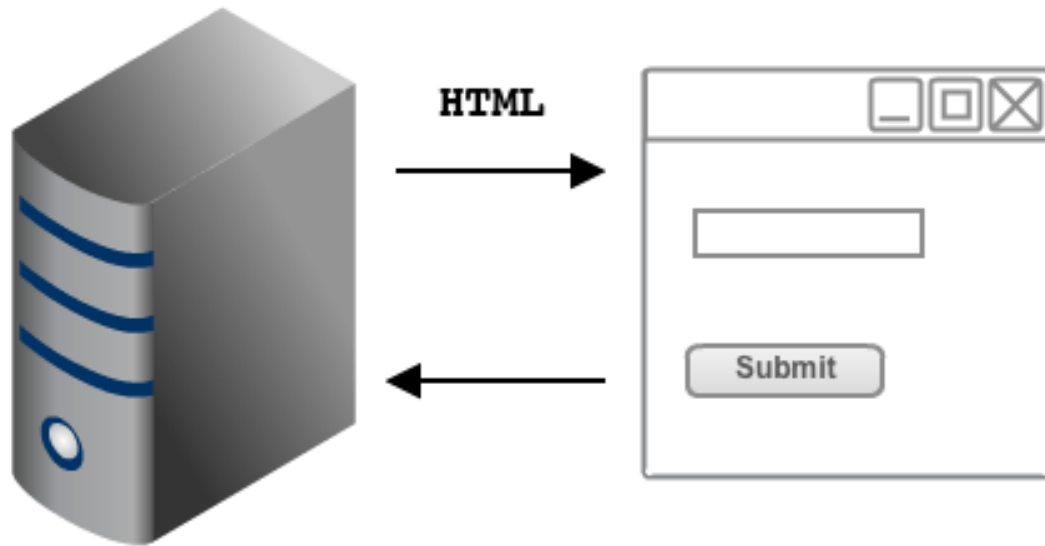


Why js matters?

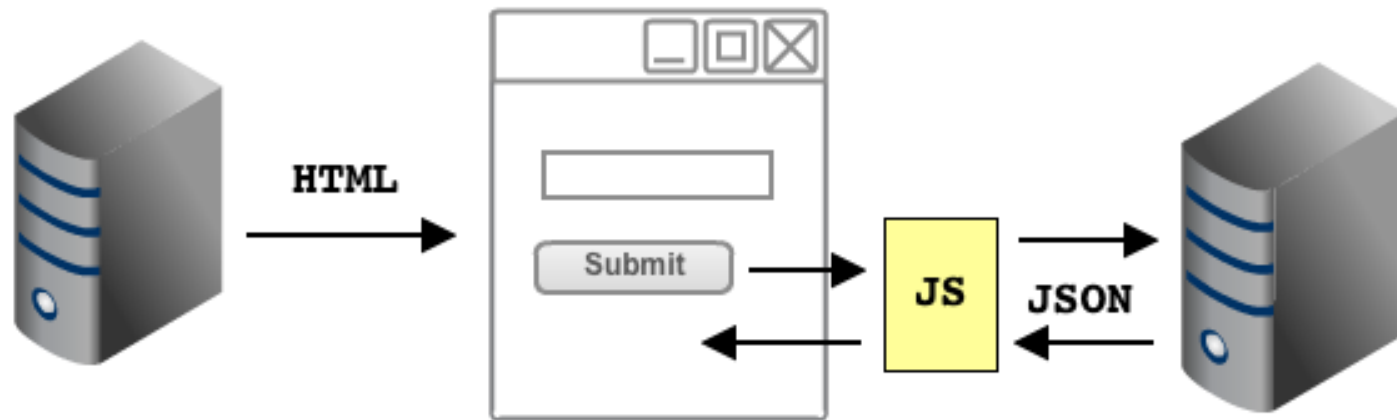


JS

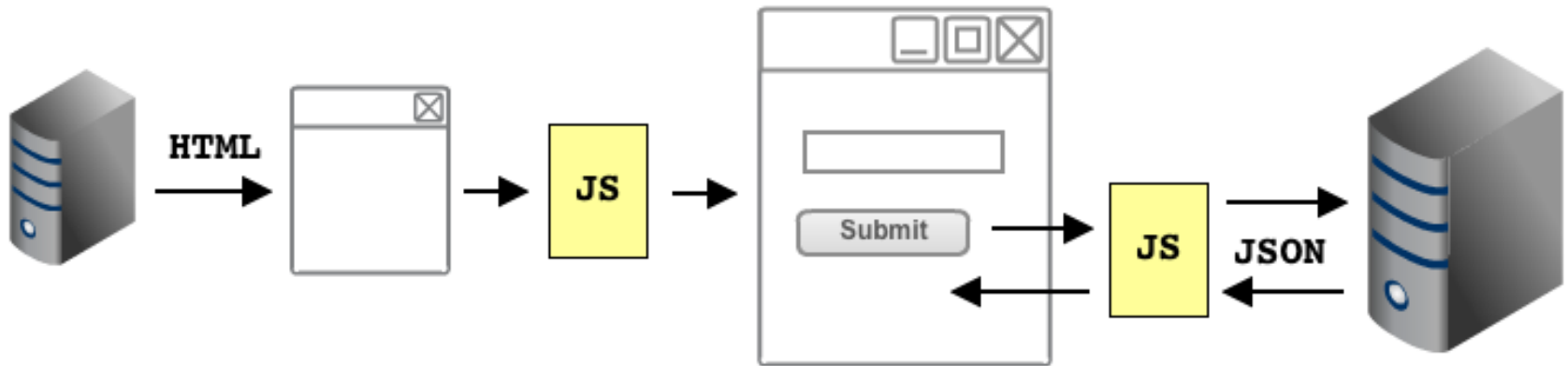
Web 1.0: JS for Almost Nothing



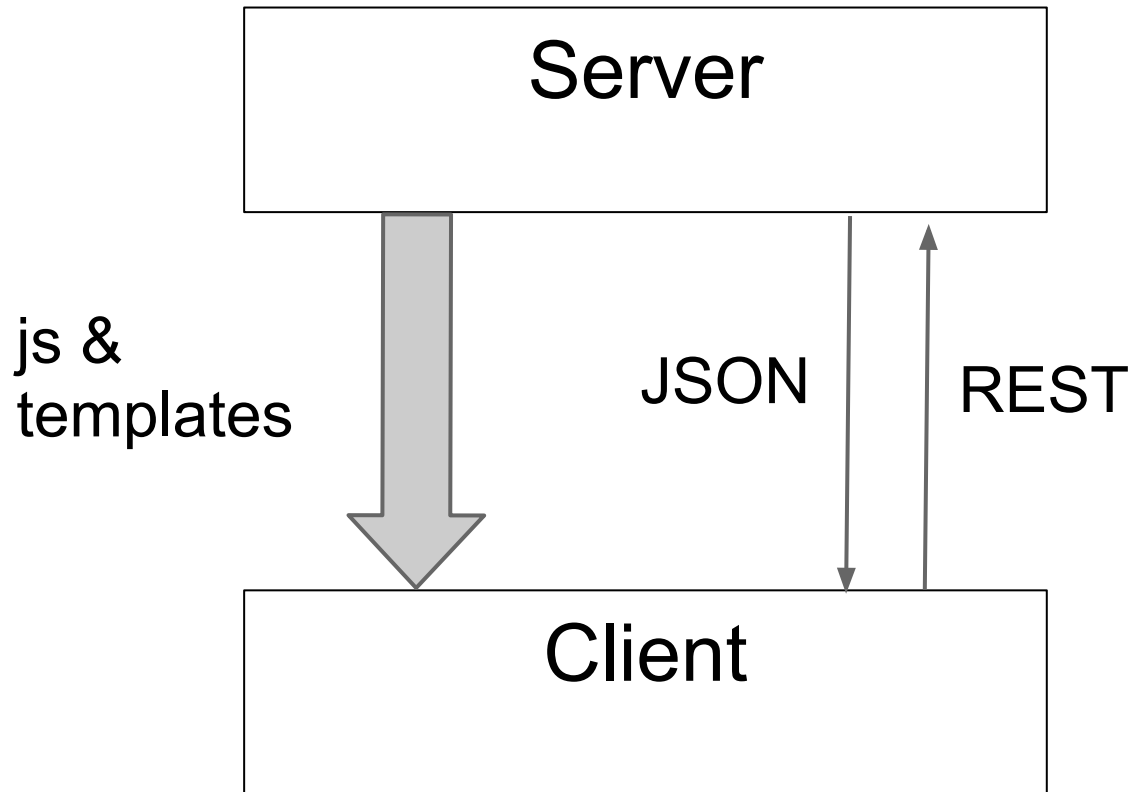
Web 2.0: JS for AJAX



Web Today: JS for Everything



Advantages of new approach



Challenges

jQuery is not enough

What is jQuery?

jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers. With a combination of versatility and extensibility, jQuery has changed the way that millions of people write JavaScript.

Programming best practices in front end?



Solution: Browserside js frameworks



BACKBONE.JS



ANGULARJS
by Google

ember

Backbone is in Drupal Core



BACKBONE.JS



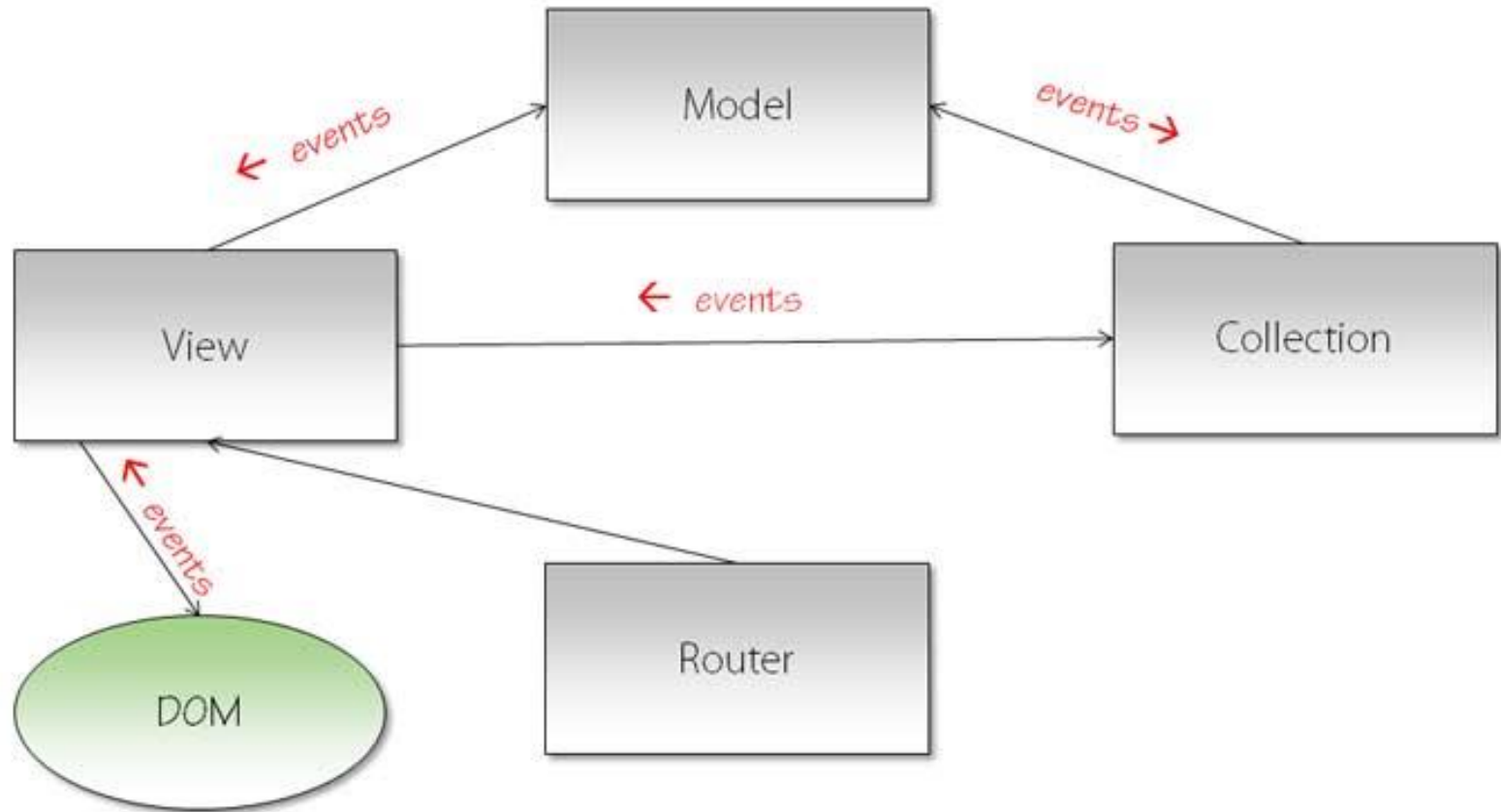
What is Backbone?



BACKBONE.JS



MV* in Backbone



Model

```
app.Todo = Backbone.Model.extend({
  defaults: {
    title: '',
    completed: false
  },
  toggle: function () {
    this.save({
      completed: !this.get('completed')
    }); } });
```


Template

```
var html =  
  _.template('<li><%= name %></li>'  
    , { name: 'John Smith' });
```

Collection

```
var TodoList = Backbone.Collection.extend({  
  model: app.Todo,  
  
  localStorage: new Backbone  
    .LocalStorage('todos-backbone'),
```

View

```
app.AppView = Backbone.View.extend ({
  el: '#todoapp',
  statTemplate: _.template ($('#id').html()),
  events: {
    'click #clear': 'clear'},
  initialize: function () {
    this.$input = this.$('#new-todo');
    this.listenTo(app.Todos, 'add', this.  
addOne);
  }
```

Routing

```
var AppRouter = Backbone.Router.extend({  
  routes: { "posts/:id": "getPost" });
```

```
var app_router = new AppRouter;
```

```
app_router.on('route:getPost', function (id)  
{  
  alert( "Get post number " + id );  
});
```

```
Backbone.history.start();
```

Underscore

UNDERSCORE.JS



Front end templating

- allows us to dynamically build html on browser side
- non-hacky approach to ajax

UNDERSCORE.JS



What we can use Backbone for?

Internal app

Admin panel

Using Backbone in module

```
function backbone_todo_library_info() {  
  $libraries['backbone_todo'] = array(  
    'js' => array(  
      $path . '/js/todo.js' => $options,  
    ),  
    'dependencies' => array(  
      array('system', 'jquery'),  
      array('system', 'underscore'),  
      array('system', 'backbone'),  
    ));  
};
```


Yeoman



YO



GRUNT



BOWER

Drupal as webservice

```
{  
  "firstName": "John",  
  "lastName": "Smith",  
  "age": 25,  
  "address": {  
    "streetAddress": "21 2nd Street",  
    "city": "New York",  
    "state": "NY",  
    "postalCode": 10021  
  }  
}
```

Questions



Materials

- [Backbone fundamentals by Andy Osmani](#)
- [Choosing right js framework with ToDo MVc](#)
- [Backbone tutorials](#)

Summary

Contact

- @MarcinWosinek
- presentation notes:

<http://bit.ly/DcWrocBackbone>

- marcin.wosinek@gmail.com

Credits

- logo of BackboneJs: <https://github.com/documentcloud/backbone/blob/master/docs/images/backbone.png>
- logo of AngularJs: <https://github.com/angular/angular.js/blob/master/images/logo/AngularJS.exports/AngularJS-large.png>
- <http://www.teaching-materials.org/jsmvc/#/2>
- <http://www.teaching-materials.org/jsmvc/#/3>
- <http://www.teaching-materials.org/jsmvc/#/4>
- <http://www.teaching-materials.org/jsmvc/#/18>
- photo with audience <http://www.flickr.com/photos/dougbelshaw/5604047370/in/photostream/>
- kid in sandbox: <http://www.flickr.com/photos/thenickster/266142840/>
- underscore logo: <https://github.com/documentcloud/underscore/blob/master/docs/images/underscore.png>
- <http://yeoman.io/>