

App Organization

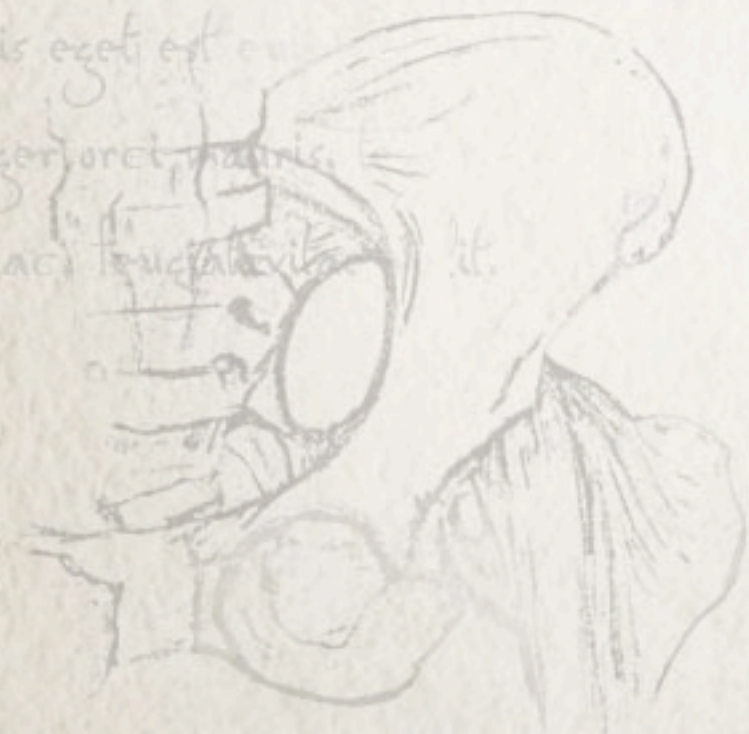
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Class naming

Everything in the Global Scope

```
var TodoItem = Backbone.Model.extend({});  
var TodoItemView = Backbone.View.extend({});  
var TodoItems = Backbone.Collection.extend({});  
var TodoItemsView = Backbone.View.extend({});  
var TodoRouter = Backbone.Router.extend({});
```



- Leads to naming collisions
- Need to put “what kind of object” it is in the name e.g. “TodoItemView”
- Maintainability doesn’t scale with large applications

Use a Global Object for Namespace

```
var App = {  
  Models: {},  
  Views: {},  
  Collections: {}  
}
```

*Create a single global object
where everything is stored*

```
App.Models.TodoItem = Backbone.Model.extend({});  
App.Views.TodoItem = Backbone.View.extend({});  
App.Collections.TodoItems = Backbone.Collection.extend({});  
App.Views.TodoItems = Backbone.View.extend({});  
App.TodoRouter = Backbone.Router.extend({});
```

Reference classes with the namespace

```
var todoItem = new App.Models.TodoItem({...})
```

Store one-off objects on App

Handle Links Outside of Backbone Views

```
<ul>
  <li><a href="/completed">Show Completed</a></li>
  <li><a href="/support">Support</a></li>
</ul>
```

Using plain jQuery

```
$('.a').click(function(e){
  e.preventDefault();
  Backbone.history.navigate(e.target.pathname, {trigger: true});
});
```



What if we wanted backbone to handle this?

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Handle Links Outside of Backbone Views

```
var App = {  
  Models: {},  
  Views: {},  
  Collections: {},  
  start: function(){  
    $('a').click(function(e){  
      e.preventDefault();  
      Backbone.history.navigate(e.target.pathname, {trigger: true});  
    });  
  
    Backbone.history.start({pushState: true});  
  }  
}
```

```
$(function(){ App.start(); })
```

! Outside of Backbone Views

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Handle Links Outside of Backbone Views

```
var App = Backbone.View.extend({  
  Models: {},  
  Views: {},  
  Collections: {},  
  events: {  
    'click a': function(e){  
      e.preventDefault();  
      Backbone.history.navigate(e.target.pathname, {trigger: true});  
    }  
  },  
  start: function(){  
    Backbone.history.start({pushState: true});  
  }  
});
```

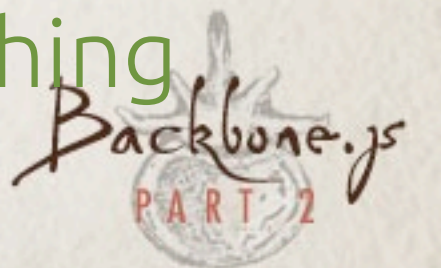
App is now a View Class

Use View event handling for clicks

```
var app = new App({el: document.body});
```

Using body will capture everything

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Handle Links Outside of Backbone Views

```
var App = new (Backbone.View.extend({
  ...
  events: {
    'click a': function(e){
      e.preventDefault();
      Backbone.history.navigate(e.target.pathname, {trigger: true});
    }
  },
  start: function(){
    Backbone.history.start({pushState: true});
  }
}))({el: document.body});
```



Create instance without
creating a class

```
$(function(){ App.start(); })
```

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Skip links

```
<ul>
  <li><a href="/completed">Show Completed</a></li>
  <li><a href="/support">Support</a></li>
</ul>
```

Event Handler

```
events: {
  'click a': function(e){
    e.preventDefault();
    Backbone.history.navigate(e.target.pathname, {trigger: true});
  }
}
```



Captures all link clicks

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Skip links

```
<ul>
  <li><a href="/completed" data-internal="true">Show Completed</a></li>
  <li><a href="/support">Support</a></li>
</ul>
```

Event Handler

```
events: {
  'click a[data-internal]': function(e){
    e.preventDefault();
    Backbone.history.navigate(e.target.pathname, {trigger: true});
  }
}
```



Captures only the links we want it to

Build Initial HTML

```
var App = new (Backbone.View.extend({
  ...
  template: _.template('<h1>ToDo List!</h1>' +
    '<div id="app"></div>'),
  render: function(){
    this.$el.html(this.template());
  }
}))(document.body);
```



```
$(function(){
  App.render();
  App.start();
})
```

```
<body>
  <h1>ToDo List!</h1>
  <div id="app"></div>
</body>
```

*Add Initial HTML
to the body*

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Object Initialization

```
var App = new (Backbone.View.extend({
  ...
  start: function(){
    var todos = new App.Collections.TodoItems();
    var todosView = new App.Views.TodoItems({collection: todos});
    this.$el.append(todosView.render().el);
    todos.fetch();
  }
}))({el: document.body});
```



Ajax slows down initial render

```
$(function(){ App.start(); })
```

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Bootstrap Model Data

```
var App = new (Backbone.View.extend({
  start: function(bootstrap){
    var todos = new App.Collections.TodoItems(bootstrap.todos);
    var todosView = new App.Views.TodoItems({collection: todos});
    this.$el.append(todosView.render().el);
  }
}))({el: document.body});
```

```
var bootstrap = {
  todos: [
    {id: 1, description: "Pickup Milk.", status: "complete"},
    {id: 2, description: "Pickup Kids.", status: "incomplete"},
  ]
}
```

Bootstrap data
comes from
rendered HTML page

```
$(function(){ App.start(bootstrap); })
```

Pass in data to start

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App Organization

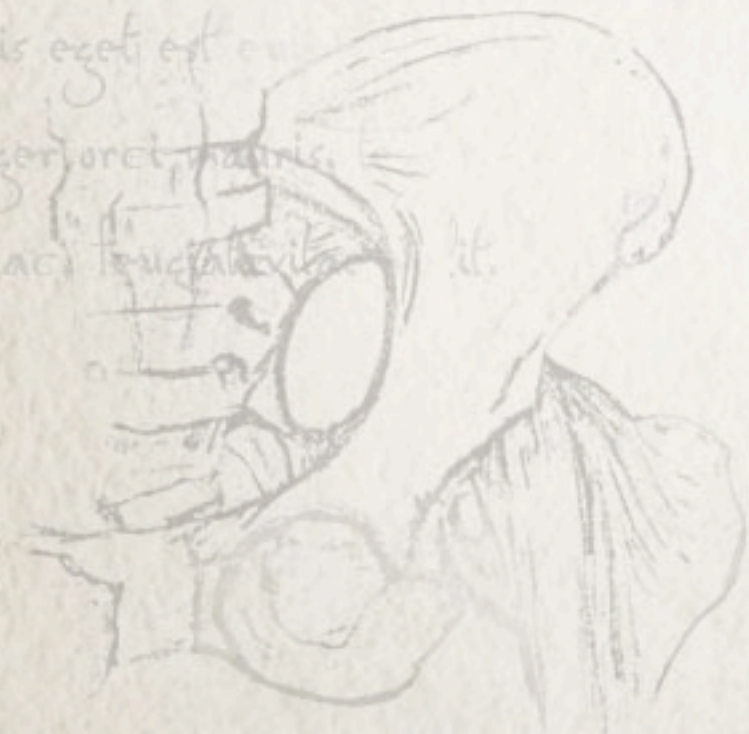
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