

Sed sed orci. Nulla
Donec a turpis in

Introduction

- LEVEL 1 -



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Introducing the Todo App

To get the todo data

```
$.getJSON('/todo', function(data) {
```

The data returned

```
{ description: 'Pick up milk', status: 'incomplete', id: 1 }
```

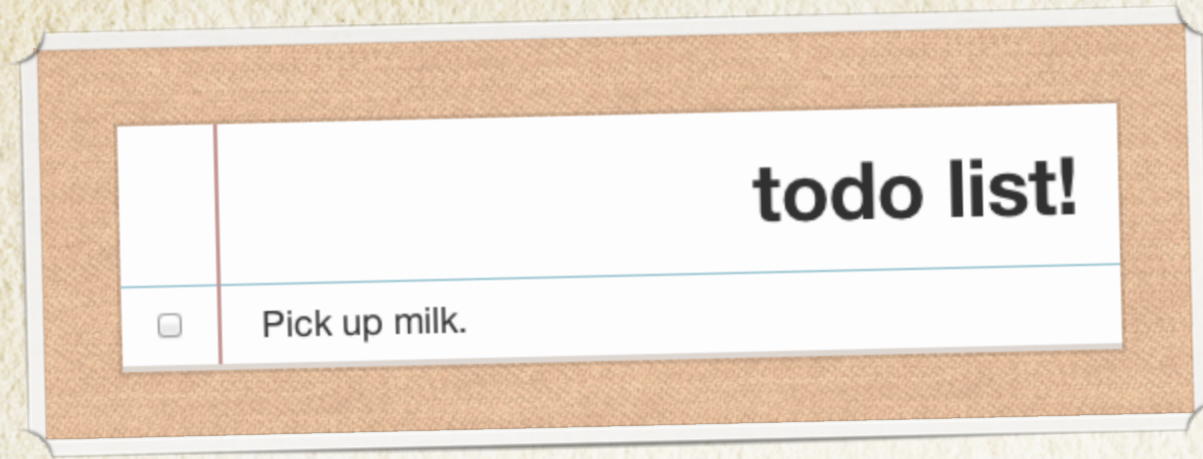


todo list!



Pick up milk.

Adding functionality



Checking off a todo item

Add deadlines

Reorder & sort



Methods can be disorganized
We lose the data structure

Introduction

Backbone.js

Without Backbone.js



```
{ description: 'Pick up milk', status: 'incomplete', id: 1 }
```

```
<h3 class='incomplete'>  
  <input type='checkbox' data-id='1' />  
  Pick up milk  
</h3>
```



We need an object to maintain the data

Introducing Backbone.js



“Get your truth out of the DOM”

- Jeremy Ashkenas

Provides client-side app structure

Models to represent data

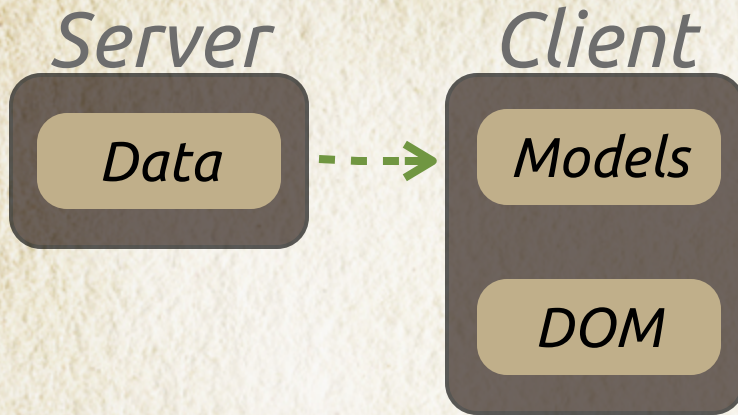
Views to hook up models to the DOM

Synchronizes data to/from server

Introduction



With Backbone.js



To create a model class

```
var TodoItem = Backbone.Model.extend({});
```

To create a model instance



```
var todoItem = new TodoItem(  
  { description: 'Pick up milk', status: 'incomplete', id: 1 }  
);
```


Backbone Models

Models

```
var todoItem = new TodoItem(  
  { description: 'Pick up milk', status: 'incomplete', id: 1 }  
);
```

To get an attribute

```
todoItem.get('description');
```

---> 'Pick up milk'

To set an attribute

```
todoItem.set({status: 'complete'});
```

Sync to the server

```
todoItem.save();
```



Configuration needed

Introduction

Backbone.js

Displaying the Data



To create a view class

```
var TodoView = Backbone.View.extend({});
```


To create a view instance



```
var todoView = new TodoView({ model: todoItem });
```


Rendering the View

```
var TodoView = Backbone.View.extend({  
  render: function(){  
    var html = '<h3>' + this.model.get('description') + '</h3>';  
    $(this.el).html(html);  
  }  
});
```



Every view has a top level **E**lement

<div>

<p>

<header>

<section>

...

default

Rendering the View

```
var TodoView = Backbone.View.extend({  
  render: function(){  
    var html = '<h3>' + this.model.get('description') + '</h3>';  
    $(this.el).html(html);  
  }  
});
```

```
var todoView = new TodoView({ model: todoItem });  
todoView.render();  
console.log(todoView.el);
```

```
<div>  
  <h3>Pick up milk</h3>  
</div>
```