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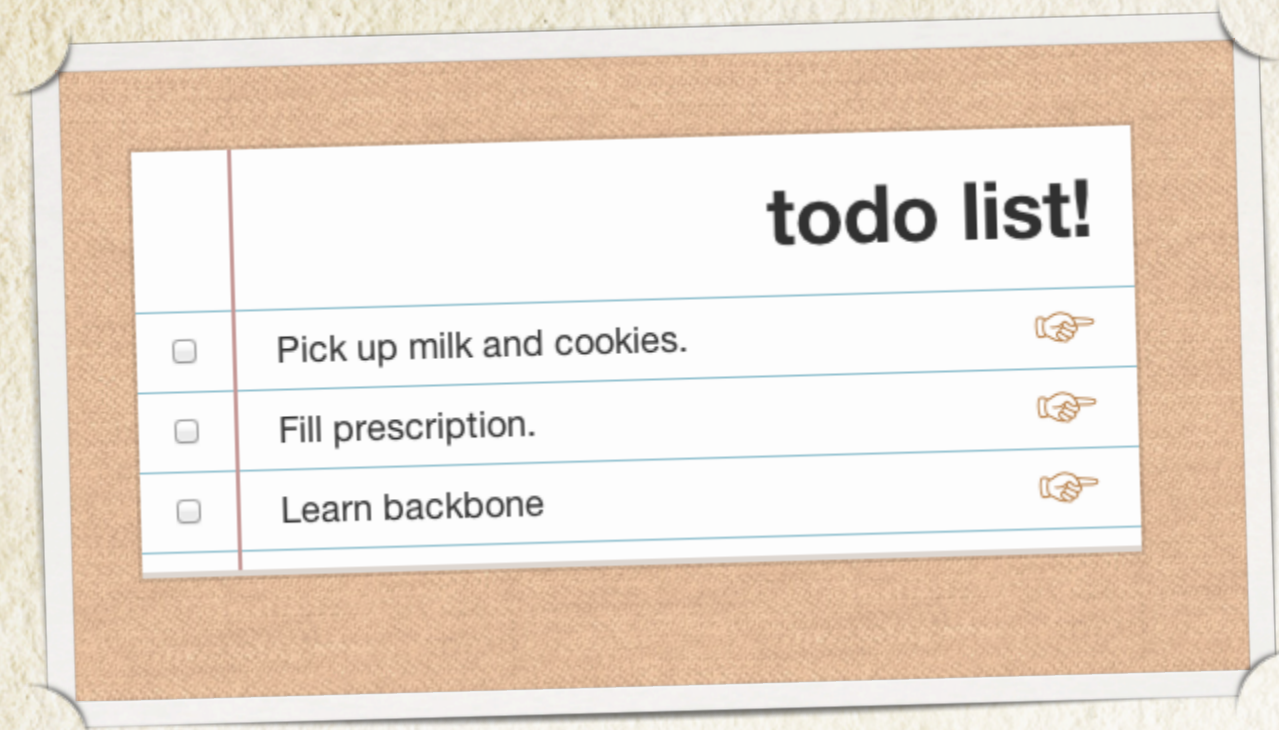
Collections & Views




- LEVEL 6 -



Sed sed orci. Nullam a lac
Donec a turpis in erat cur
fringit. Sed sed orci. Nullam

Todo list!



	todo list!
<input type="checkbox"/>	Pick up milk and cookies. 
<input type="checkbox"/>	Fill prescription. 
<input type="checkbox"/>	Learn backbone 

Collection + View == Collection View!

Collections & Views



Review our Model View

```
var TodoView = Backbone.View.extend({  
  render: function(){  
    this.$el.html(this.template(this.model.toJSON()));  
    return this;  
  }  
  ...  
});  
var todoItem = new TodoItem();  
var todoView = new TodoView({model: todoItem});  
console.log(todoView.render().el);
```

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



Model

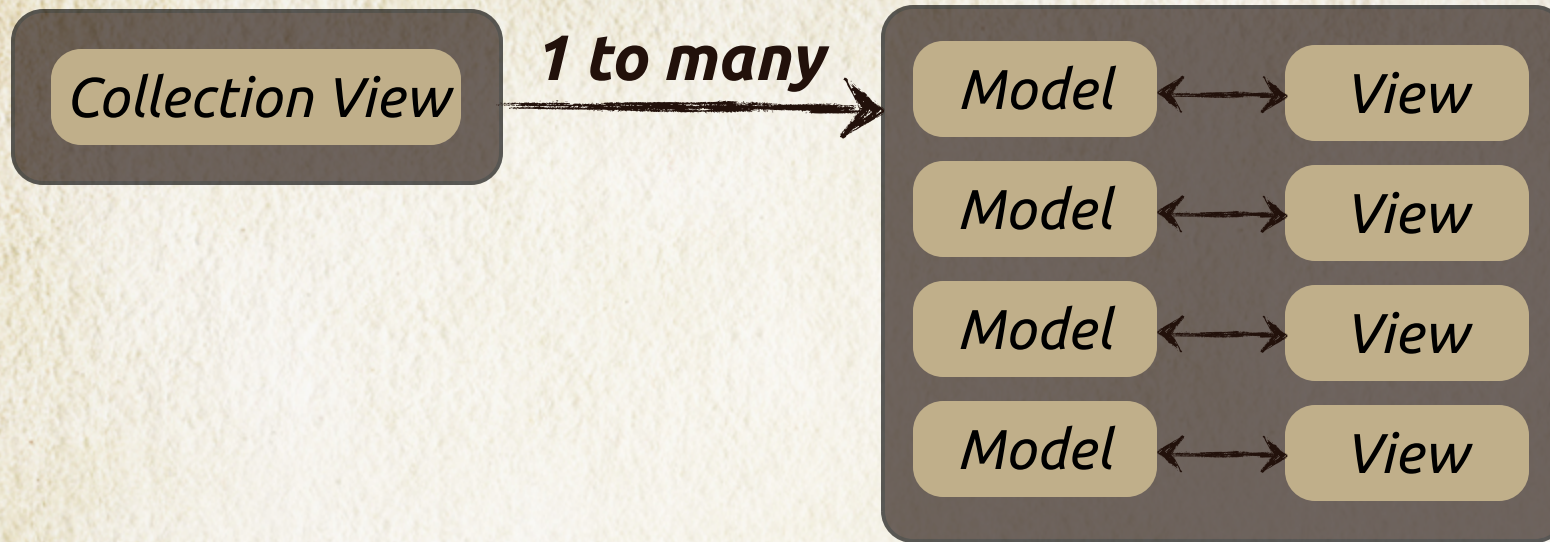
1 to 1

View

Collections & Views

Backbone.js

Collection Views



A Collection View doesn't render any of it's own HTML.
It delegates that responsibility to the model views.

Define and Render

```
var TodoListView = Backbone.View.extend({});  
var todoListView = new TodoListView({collection: todoList});
```

first crack at render

```
render: function(){  
  this.collection.forEach(function(todoItem){  
    var todoView = new TodoView({model: todoItem});  
    this.$el.append(todoView.render().el);  
  });  
}
```



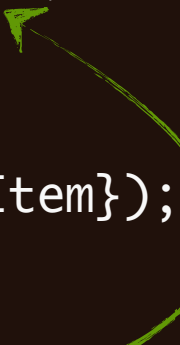
forEach changes context

Rendering

addOne

```
render: function(){
  this.collection.forEach(this.addOne, this);
}


addOne: function(todoItem){
  var todoView = new TodoView({model: todoItem});
  this.$el.append(todoView.render().el);
}
```



forEach saves context

Render continued

```
var todoListView = new TodoListView({collection: todoList});  
todoListView.render();  
console.log(todoListView.el);
```



```
<div>  
  <h3 class="incomplete">  
    <input type=checkbox />  
    Pick up milk.  
  </h3>  
  
  <h3 class="complete">  
    <input type=checkbox checked/>  
    Learn backbone.  
  </h3>  
</div>
```


Adding new Models

```
var TodoListView = Backbone.View.extend({
  addOne: function(todoItem){
    var todoView = new TodoView({model: todoItem});
    this.$el.append(todoView.render().el);
  },
  render: function(){
    this.collection.forEach(this.addOne, this);
  }
});
```

```
var newTodoItem = new TodoItem({
  description: 'Take out trash.',
  status: 'incomplete'
});
todoList.add(newTodoItem);
```



newTodoItem not in DOM

Collections & Views



Listen to the add Event

```
var TodoListView = Backbone.View.extend({
  initialize: function(){
    this.collection.on('add', this.addOne, this);
  },
  addOne: function(todoItem){
    var todoView = new TodoView({model: todoItem});
    this.$el.append(todoView.render().el);
  },
  render: function(){
    this.collection.forEach(this.addOne, this);
  }
});
```

```
var newTodoItem = new TodoItem({
  description: 'Take out trash.',
  status: 'incomplete'
});
todoList.add(newTodoItem);
```



Add Event in Action

	todo list!
<input type="checkbox"/>	Pick up milk.
<input checked="" type="checkbox"/>	Get a car wash
<input type="checkbox"/>	Learn Backbone

Elements Resources Network Search Console

```
> newTodoItem = new TodoItem({description:
  'Learn Rails', status: 'incomplete'})
  child
> |
```

Collections & Views

Backbone.js

Reset Event

```
var TodoListView = Backbone.View.extend({
  initialize: function(){
    this.collection.on('add', this.addOne, this);
  },
  addOne: function(todoItem){
    var todoView = new TodoView({model: todoItem});
    this.$el.append(todoView.render().el);
  },
  render: function(){
    this.collection.forEach(this.addOne, this);
  }
});
```

```
var todoList = new TodoList();
var todoListView = new TodoListView({
  collection: todoList
});
todoList.fetch();
```



Reset Event

```
var TodoListView = Backbone.View.extend({
  initialize: function(){
    this.collection.on('add', this.addOne, this);
    this.collection.on('reset', this.addAll, this);
  },
  addOne: function(todoItem){
    var todoView = new TodoView({model: todoItem});
    this.$el.append(todoView.render().el);
  },
  addAll: function(){
    this.collection.forEach(this.addOne, this);
  },
  render: function(){
    this.addAll();
  }
});
```

```
todoList.fetch();
```

todoList
reset

Collections & Views

Backbone.js

Reset Event in Action



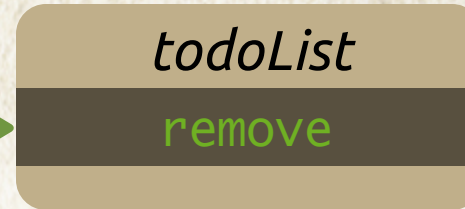
removing from collection

Collections & Views

Backbone.js

fixing remove with Custom Events

```
todoList.remove(todoItem);
```



TodoList Collection

```
initialize: function(){  
  this.on('remove', this.hideModel);  
},  
hideModel: function(model){  
  model.trigger('hide');  
}
```



TodoItem View

```
initialize: function(){  
  this.model.on('hide', this.remove, this);  
}
```


Bringing it all together

todo list!

- ☐ Pick up milk and cookies.
- ☐ Fill prescription.
- ☐ Learn backbone

Elements Resources Network Search Console

> |

Collections & Views

Backbone.js