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# Models & Views

- LEVEL 4 -



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### Review our Model View

```
var TodoView = Backbone.View.extend({
  template: _.template('<h3><%= description %></h3>'),
  render: function(){
    this.$el.html(this.template(this.model.toJSON()));
  }
});
```

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

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

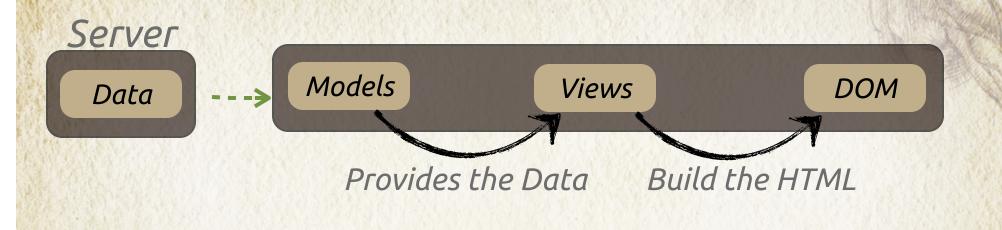
Backboneys

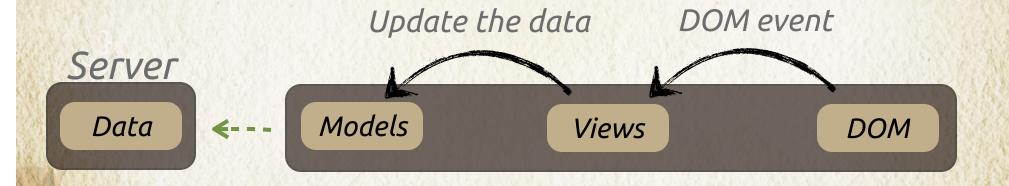
# Adding a checkbox

How do we update the model when checkbox changes?



# View events update the Model





Backboneigs

## Update model on VI event

```
var TodoView = Backbone.View.extend({
  events: {
    'change input': 'toggleStatus'
  },
  toggleStatus: function(){
    if(this.model.get('status') === 'incomplete'){
      this.model.set({'status': 'complete'});
    }else{
      this.model.set({'status': 'incomplete'});
                   Model logic in view
});
```



### Refactor to the Model

```
var TodoView = Backbone.View.extend({
  events: {
    'change input': 'toggleStatus'
  },
  toggleStatus: function(){
   this.model.toggleStatus();
});
var TodoItem = Backbone.Model.extend({
  toggleStatus: function(){
    if(this.get('status') === 'incomplete'){
      this.set({'status': 'complete'});
    }else{
      this.set({'status': 'incomplete'});
             Model logic in Model
});
```

### Sync changes to server

```
var TodoItem = Backbone.Model.extend({
  toggleStatus: function(){
    if(this.get('status') === 'incomplete'){
       this.set({'status': 'complete'});
    }else{
       this.set({'status': 'incomplete'});
    }
    this.save();
}
```

PUT /todos/1



# Update view to reflect changes

```
todo list!
```

```
.complete {
  color: #bbb;
  text-decoration: line-through;
}
```

#### update TodoView template:

How should we update the view when the model changes?

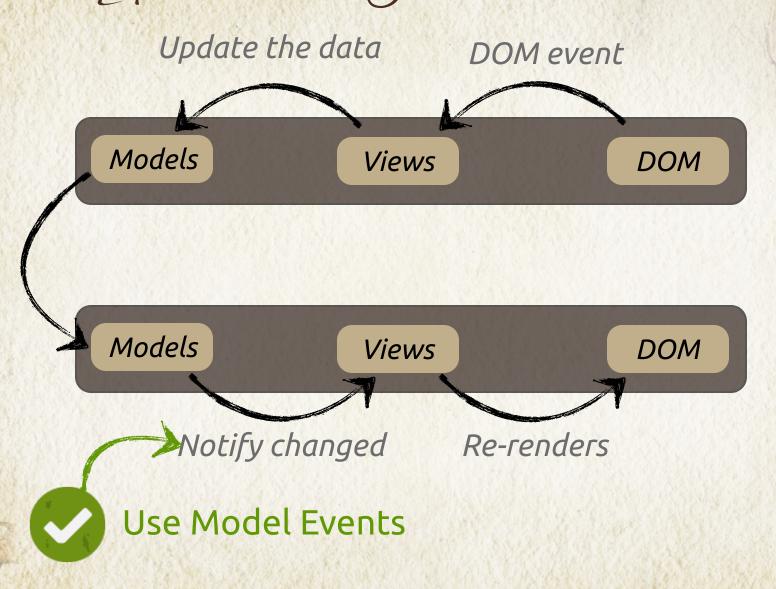


### Re-render the view

```
var TodoView = Backbone.View.extend({
  events: {
    'change input': 'toggleStatus'
  toggleStatus: function(){
   this.model.toggleStatus();
   this.render():
                           Doesn't work for other model changes
  },
  render: function(){
   this.$el.html(this.template(this.model.toJSON()));
});
```



## Model updates change the View



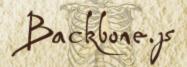
Backboneys

Models & Views

### Re-render the view

```
var TodoView = Backbone.View.extend({
  events: {
    'change input': 'toggleStatus'
  initialize: function(){
    this.model.on('change', this.render, this);
  },
  toggleStatus: function(){
   this.model.toggleStatus();
 },
  render: function(){
   this.$el.html(this.template(this.model.toJSON()));
});
```

Why the third argument?



## What is this?

```
this.model.on('change', this.render);
```

```
render()
window
```

```
render: function(){
  this.$el.html(this.template(this.model.toJSON()));
}
```



render context is not the view

Backbonerys

## What is this?

```
this.model.on('change', this.render, this);
```

```
todoView
```

```
render: function(){
  this.$el.html(this.template(this.model.toJSON()));
}
```



render context is bound to the view



### Remove view on model destroy

```
var TodoView = Backbone.View.extend({
  initialize: function(){
    this.model.on('change', this.render, this);
    this.model.on('destroy', this.remove, this);
  },
  render: function(){
   this.$el.html(this.template(this.model.toJSON()));
  },
  remove: function(){
    this.$el.remove();
});
```



## Watch it in action

