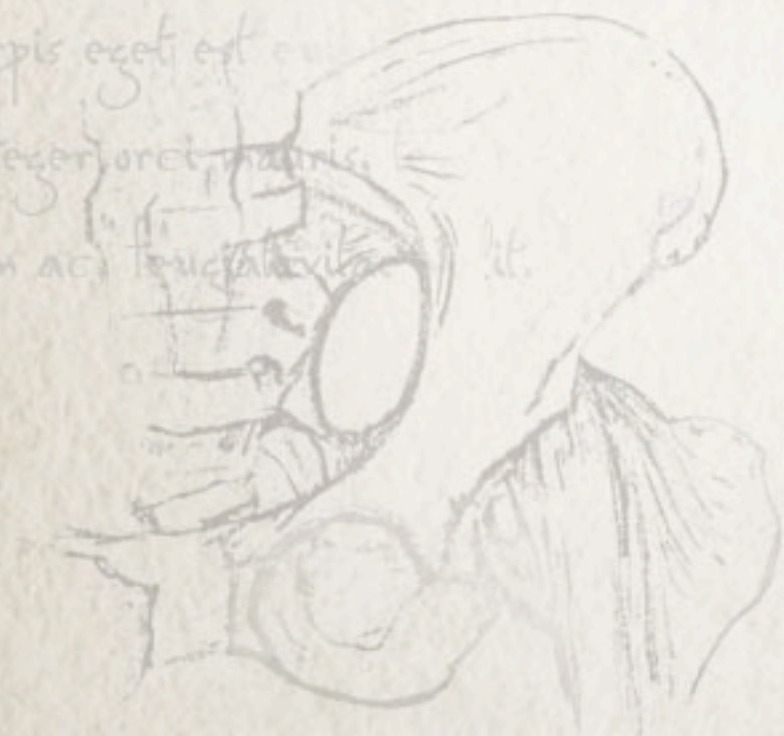


amet dolor. fusce at facilisis  
velit. Maecenas lacinia turpis eget



non commodo enim.  
tum lacus iaculis dis  
sce at facilisis velit  
turpis eget, est eu  
Integer orci, mauris.  
tum ac, feugiat vivit.



# Varying Views

- LEVEL 4 -

quisque enim  
eiusmodi nec congue odio porta. Integer orci  
quis condictum ac, fe



ec a turpis in  
llam a lacus.  
cursus.






# View Initialization Options Review

---

*Pass in the model*

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

 `todoView.model == todoItem`

*Or the collection*

```
var todoView = new TodoView({  
  collection: todoItems  
});
```

 `todoView.collection == todoItems`

**What other options  
can you pass into View  
initialization?**

---

Varying Views





# Using Existing DOM Elements

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

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

```
<div class="todo">
</div>
```

```
$('.todo').html(todoView.render().el);
```



```
<div class="todo">
  <div>Pickup Milk.</div>
</div>
```

Varying Views



# Using Existing DOM Elements

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

```
var todoView = new TodoView({model: todoItem, el: $('#.todo')});
```

```
<div class="todo">  
</div>
```

```
todoView.render()
```



```
<div class="todo">  
  Pickup Milk.  
</div>
```

Varying Views



# Custom Initialization Options

---

*Pass in an extra option*

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

 `todoView.options`  `{ "user": currentUser }`

*Access extra options in initialize*

```
var TodoView = Backbone.View.extend({  
  initialize: function(options){  
    this.user = options.user;  
  }  
});
```

---

Varying Views





# Escaping User Content

*Rendering user supplied strings can lead to XSS attack*

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

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

```
todoItem.set('description', "<script src='attack.js' />")
```

```
todoView.render().el
```



```
<div>  
  <script src='attack.js' />  
</div>
```



Varying Views



# Escaping User Content

*Rendering user supplied strings can lead to XSS attack*

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

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

```
todoItem.set('description', "<script src='attack.js' />")
```

```
todoView.render().el
```



```
<div>  
  &lt;script src=&#x27;attack.js&#x27; /&gt;  
</div>
```



Varying Views





# Passing extra options to event handlers

```
var TodoView = Backbone.View.extend({
  template: _.template('<span><%= description %></span>'),
  initialize: function(){
    this.model.on('change:description', this.change, this);
  },
  render: function(){
    this.$el.html(this.template(this.model.attributes));
  },
  change: function(model, value){
    this.$('span').html(value);
    this.$el.effect("highlight", {}, 1000);
  },
});
```

todoItem.set({description: "Pickup Kids"}); ---> 'change:description'

## How do make a change without firing off events?

Varying Views





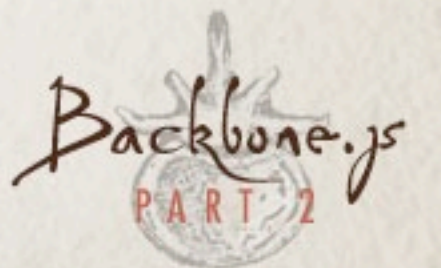
# Passing extra options to event handlers

```
var TodoView = Backbone.View.extend({
  template: _.template('<span><%= description %></span>'),
  initialize: function(){
    this.model.on('change:description', this.change, this);
  },
  render: function(){
    this.$el.html(this.template(this.model.attributes));
  },
  change: function(model, value){
    this.$('span').html(value);
    this.$el.effect("highlight", {}, 1000);
  },
});
```

```
todoItem.set({description: "Pickup Kids"}, {silent: true});
```

## How do we stop just the highlight from happening?

Varying Views





# Passing extra options to event handlers

```
var TodoView = Backbone.View.extend({
  template: _.template('<span><%= description %></span>'),
  initialize: function(){
    this.model.on('change:description', this.change, this);
  },
  render: function(){
    this.$el.html(this.template(this.model.attributes));
  },
  change: function(model, value, options){
    this.$('span').html(value);
    if (options.highlight !== false){
      this.$el.effect("highlight", {}, 1000);
    }
  },
});
```

```
todoItem.set({description: "Pickup Kids"}, {highlight: false});
```



Varying Views





# View Event Cleanup

---

```
var TodoView = Backbone.View.extend({
  initialize: function() {
    this.model.on('change', this.render, this);
  }
});
```

```
todoView.remove();
```



**Model still holds reference to view**

```
var TodoView = Backbone.View.extend({
  remove: function() {
    Backbone.View.prototype.remove.apply(this, arguments);
    this.model.off(null, null, this);
  }
});
```

**Old Backbone**

---

Varying Views





# View Event Cleanup

---

```
var TodoView = Backbone.View.extend({  
  initialize: function() {  
    this.listenTo(this.model, 'change', this.render);  
  }  
});
```

**View “listens to” a model**



*Stop all listeners for this view*

```
todoView.stopListening();
```

*Will automatically call stopListening()*

```
todoView.remove();
```

**Added in Backbone 0.9.9**

---

Varying Views

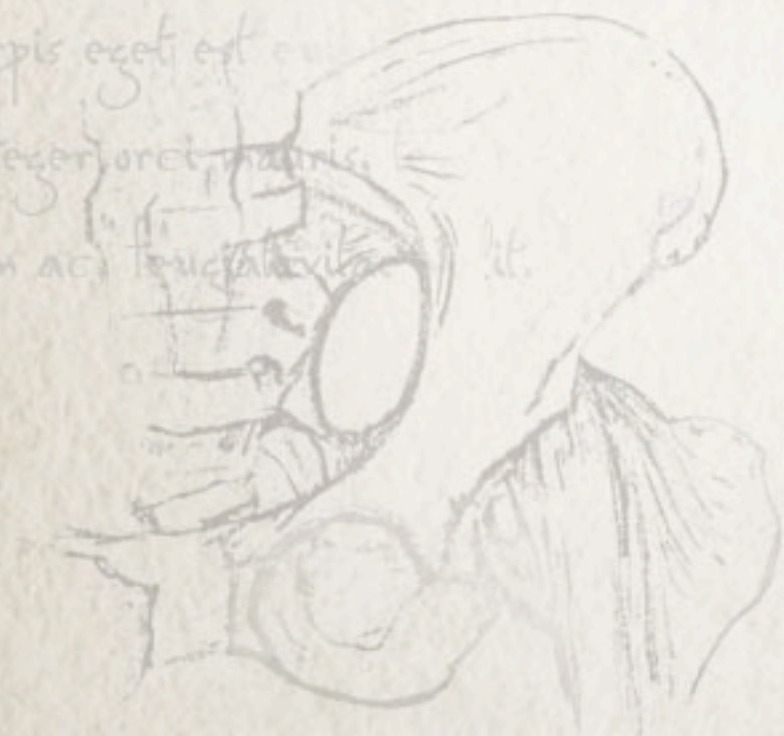




amet dolor. fusce at facilisis  
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non commodo enim.  
tum lacus iaculis dis  
sce at facilisis velit  
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Integer orci, mauris.  
tum ac, feugiat vivit.



# Varying Views

- LEVEL 4 -

quisque enim  
eiusmodi nec congue odio porta. Integer orci  
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cursus.



Integer mollis risus elementum  
amet dolor. fusce at facilisis velit. Maecenas  
eiusmodi nec congue odio porta. Integer orci