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# Router and History

- LEVEL 7 -






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# The problem

## todo list!

- |                          |                           |   |
|--------------------------|---------------------------|---|
| <input type="checkbox"/> | Pick up milk and cookies. |  |
| <input type="checkbox"/> | Fill prescription.        |  |
| <input type="checkbox"/> | Learn backbone            |  |

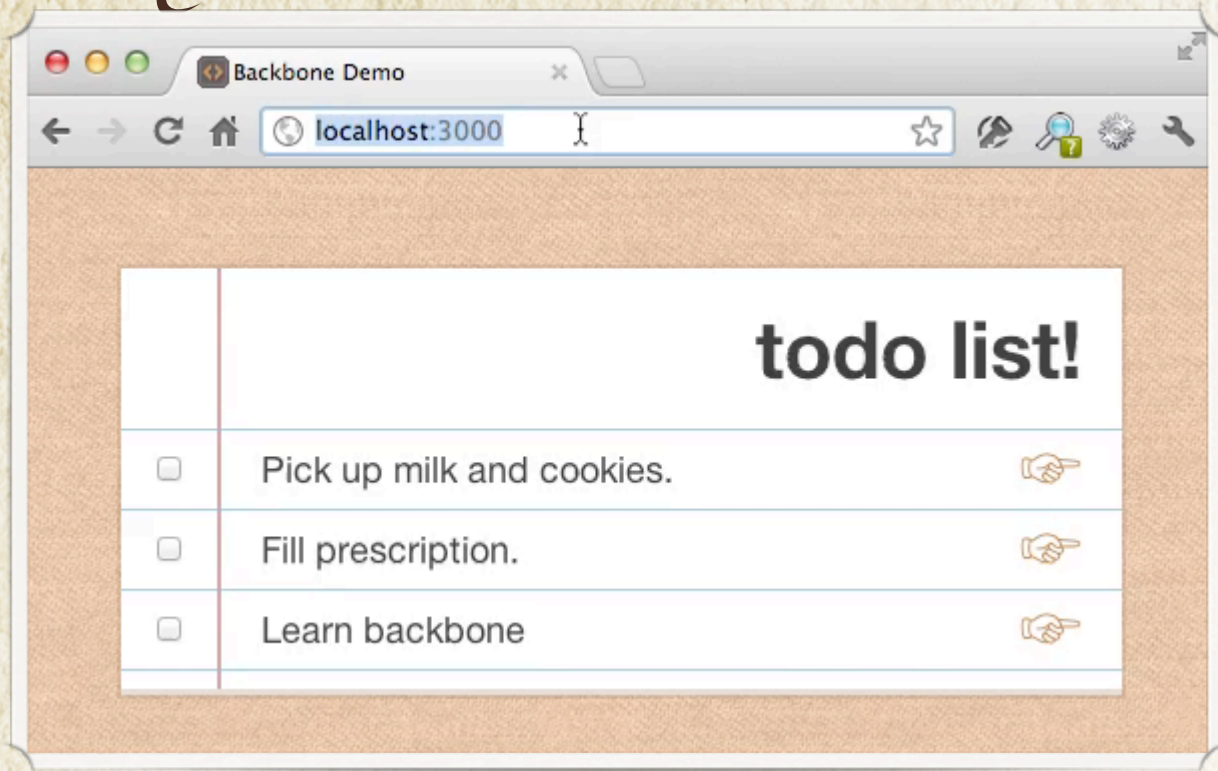
```
<a href='#' class='todo'></a>
```

```
$('.a.todo').click(function(e){  
  e.preventDefault();  
  // show single todo  
})
```



# The problem

---



Router & History to the rescue!

---

Router & History





# The Router

---

*Router's map URLs to actions*

```
var router = new Backbone.Router({  
  routes: { "todos": 'index' },  
  
  index: function(){  
    ...  
  }  
});
```

*when the url path is*

/todos

or

#todos



```
index: function(){ ... }
```




# The Router

---

*Routes match parameter parts*

```
var router = new Backbone.Router({  
  routes: { "todos/:id": 'show' }  
  
  show: function(id){ ... }  
})
```



*Matches*

URL	params
/todos/1	<i>id = 1</i>
/todos/2	<i>id = 2</i>
/todos/hello	<i>id = 'hello'</i>
/todos/foo-bar	<i>id = 'foo-bar'</i>

---

Router & History





# More Route Matchers

matcher	URL	params
search/:query	search/ruby	<i>query = 'ruby'</i>
search/:query/p:page	search/ruby/p2	<i>query = 'ruby', page = 2</i>
folder/:name-:mode	folder/foo-r	<i>name = 'foo', mode = 'r'</i>
file/*path	file/hello/world.txt	<i>path = 'hello/world.txt'</i>

\* Wildcard matches everything  
after file/



# Triggering Routes


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## Using navigate

```
router.navigate("todos/1", {  
  trigger: true  
});
```

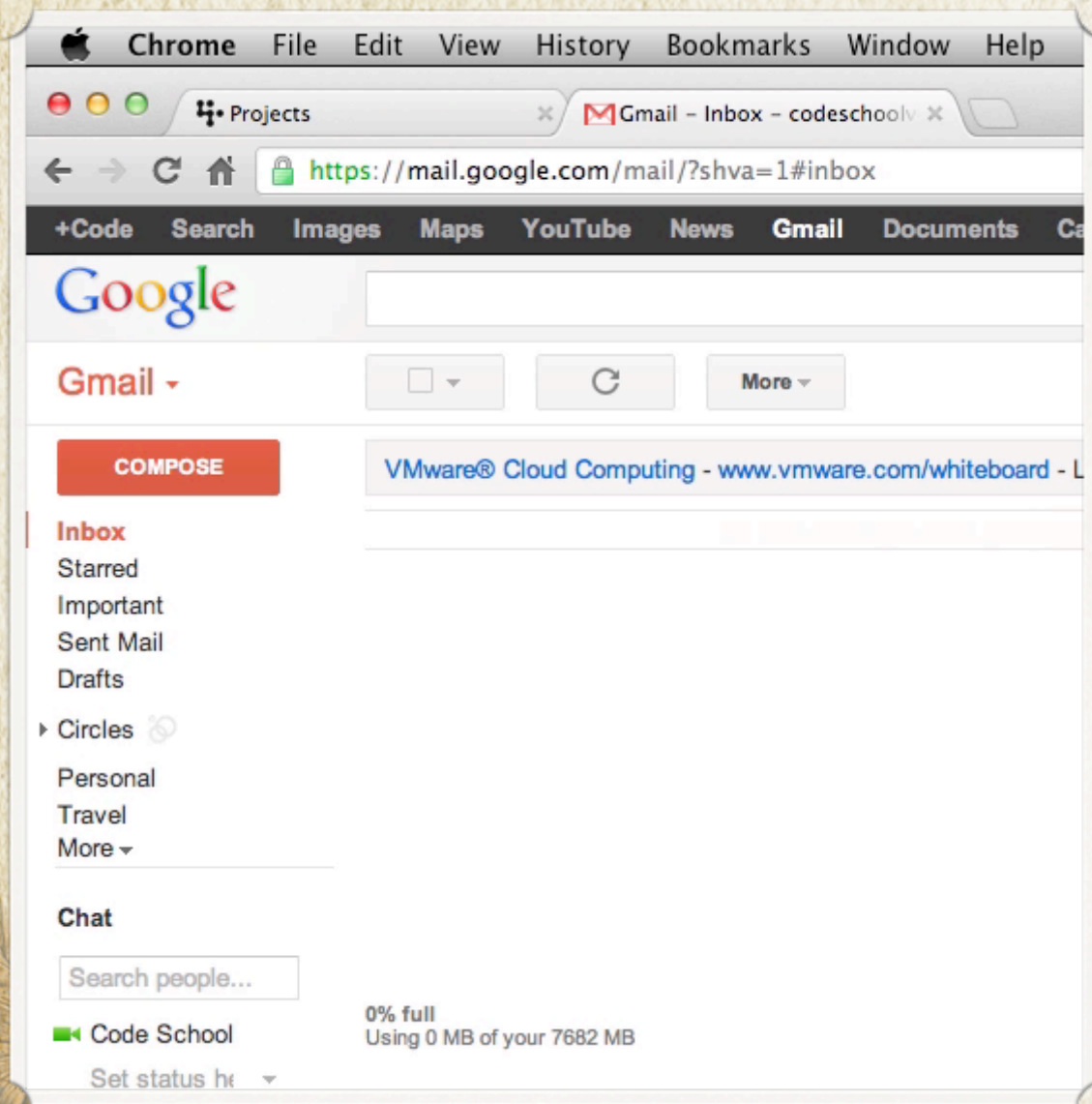
## Using links

```
<a href='#todos/1'>  </a>
```

 **These won't work yet**



# History



Hashbangs (#)



HTML5 pushState

Router & History

Backbone.js



# Backbone.history

---

*pushState off*

```
Backbone.history.start();
```



```
router.navigate("todos/1") ---> #todos/1
```



*pushState on*

```
Backbone.history.start({pushState: true});
```



```
router.navigate("todos/1") ---> /todos/1
```





# Show Action

---

## Define router class

```
var TodoRouter = Backbone.Router.extend({
  routes: { "todos/:id": "show" },
  show: function(id){
    this.todoList.focusOnTodoItem(id);
  },
  initialize: function(options){
    this.todoList = options.todoList;
  }
});
```

## Instantiate router instance

```
var todoList = new TodoList();
var TodoApp = new TodoRouter({todoList: todoList});
```



# Index Action

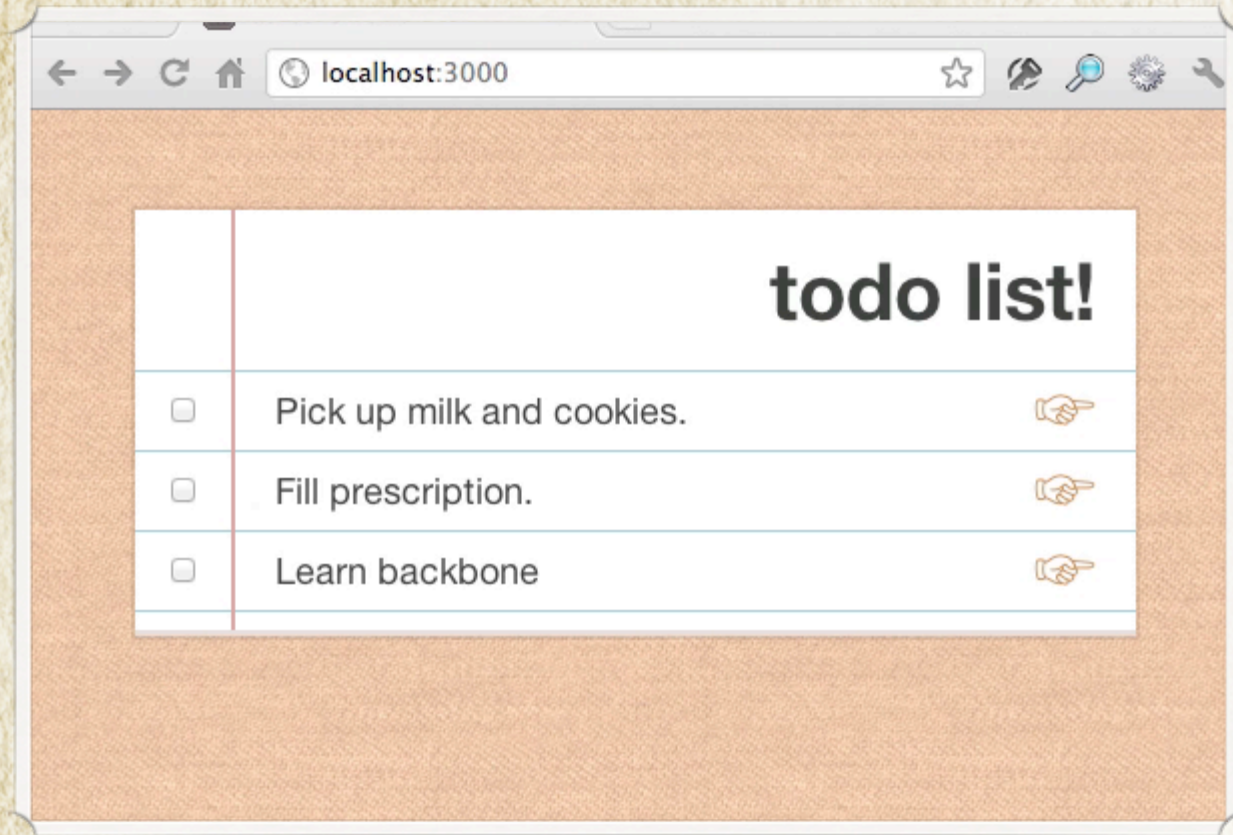
---

```
var TodoRouter = Backbone.Router.extend({
  routes: { "": "index",
            "todos/:id": "show" },
  index: function(){
    this.todoList.fetch();
  },
  show: function(id){
    this.todoList.focusOnTodoItem(id);
  },
  initialize: function(options){
    this.todoList = options.todoList;
  }
});
```



# In Action

---



---

Router & History

Backbone.js 



# App Organization

```
var TodoApp = new (Backbone.Router.extend({
  routes: { "": "index", "todos/:id": "show" },
  initialize: function(){
    this.todoList = new TodoList();
    this.todosView = new TodoListView({collection: this.todoList});
    $('#app').append(this.todosView.el);
  },
  start: function(){
    Backbone.history.start({pushState: true});
  },
  index: function(){
    this.todoList.fetch();
  },
  show: function(id){
    this.todoList.focusOnTodoItem(id);
  }
}));

$(function(){ TodoApp.start() })
```

Router & History

Backbone.js