Routers

- * A way to organize multiple views into a structure that can be navigated
- * A *route* refers to a specific section of the web application denoted by a hash (#).
 - Example: http://localhost/#books
- * A *router* refers to the code that manages the *route*. It listens to changes in the URL

Router Creation

- * Extends the *Router* base class
- * The routes are defined in the *routes* section
- * To start monitoring routes, *Backbone.history.start()* function is called
- * Two initial routes should be defined at least:
 - * The homepage route routes: {"":"handler"}
 - * The default route. It is used as a fallback if the requested route could not be found: {"*default":"defaultRoute"}
- * Order is important: The homepage and the default route should be the last in the route list

Route Parameters

- Provides more functionality to the route, e.g. http://localhost/#books/1
- * Defined in Backbone as *route*/:*name* where *name* is the parameter passed to the route handler function
- Any number of parameters can be passed to the route and, hence, to the handler function
- * A parameter can be made optional by placing it inside brackets. In this case, the handler must check for the presence of the optional parameter
- * A parameter can be made more friendly be prefixing it with text. This text is specified in the route. Example: routes {"books/book:bookNumber"}, which will match http://books/book3 for example
- * An arbitrary number of parameters can be passes by prefixing the parameter with a *. Example: {"books/:*path}" which will match http://localhost/books/book1/page34 for example. Where path will evaluate to book1/page34

Route Events

- * Fires when the URL on the page changes to a defined route
- * Defined using router.on("route:routeHandler: function(page){}") Where router is the router object
- Must be defined before Backbone.history.start()
- * Can be called anywhere in the application
- Useful when other parts of the application need to listen to specific route changes

Manual Navigation

- You can change the URL of the page to a specific, defined route by invoking router.navigate(<route>) where router is the router object
- * The defined route will NOT be invoked unless you specify {trigger:true} as the second function parameter
- * You can prevent the route from being added to the browser's history by appending *replace:true* to the second function parameter object

Routers as Controllers

- * To make a *router* act as a *controller*, one way to do this is the following:
 - Create a generic model that will be shared between the router and the view
 - Attach this model to the view
 - * Any changes that happen to this model will be done by the router object. For example, a URL change will change the ID of the current model
 - * The *router*, then, calls the view's *render* method to update the HTML according to the new model data
 - * Since the *view* already has a reference to the current model, it will use this model data in its *render* function
- * In other MVC frameworks, there is a specific object that is responsible for this type of work, called *Controller*. But in Backbone, the *router* can assume this role.