## Resource Routes (in config/routes.rb)

**Simple**

```
map.resources :users, :sessions
```

**Nested**

```
map.resources :teams, :has_many => [:players]
```

**Customized**

```
map.resources :articles,
              :collection  => {:sort => :put},
              :member      => {:deactivate => :delete},
              :new         => {:preview => :post},
              :controller  => 'articles',
              :singular    => 'article',
              :path_prefix => '/book/:book_id',
              :name_prefix => 'book_'
```

*Including the default route (**/:controller/:action/:id**) will allow any verb to access any action. This is usually not what you want, so you should probably delete it from **routes.rb***



| Standard Methods | Verb | Path | Action |
|---|---|---|---|
| *plural*_path | GET | /teams | index |
| *singular*_path(*id*) | GET | /teams/1 | show |
| new_*singular*_path | GET | /teams/new | new |
| *plural*_path | POST | /teams | create |
| edit_*singular*_path(*id*) | GET | /teams/1/edit | edit |
| *singular*_path(*id*) | PUT | /teams/1 | update |
| *singular*_path(*id*) | DELETE | /teams/1 | destroy |

*Each method also has a counterpart ending in **_url** that includes the protocol, domain, and port. There is also a **hash_for**_ version of each method that returns a hash instead of a string.*

| Formats in the URL | Path |
|---|---|
| formatted_*plural*_path(*:xml*) | /teams.xml |
| formatted_*singular*_path(id, :rss) | /teams/1.rss |
| formatted_players_path(@team, :atom) | /teams/1/players.atom |
| formatted_player_path(@team, @player, :js) | /teams/1/players/5.js |
| formatted_player_path(:team_id => 1, :id => 5, :format => :js) | /teams/1/players/5.js |

*Any URL-generating method can take a hash of options instead of bare arguments. This is the only way to generate a URL with extra querystring params.*

```
button_to "Destroy", team_path(@team), :confirm => "Are you sure?", :method => :delete
link_to "Destroy", team_path(@team), :confirm => "Are you sure?", :method => :delete
link_to_remote "Destroy", :url => team_path(@team), :confirm => "Are you sure?", :method => :delete
form_for :team, @team, :url => team_path(@team), :html => { :method => :put } do |f| ...
```

| Nested Resources | Path |
|---|---|
| team_players_path(@team) | /teams/:team_id/players<br>/teams/1/players |
| team_player_path(*@team, @player*) | /teams/:team_id/players/:id<br>/teams/1/players/5 |

*Nested resources must be defined in **routes.rb**. See above for an example.*

### Useful Plugins

- Beast Forum (an app built with RESTful design)
- RESTful Authentication Plugin

| Custom Methods | Path | Action | Map Options |
|---|---|---|---|
| sort_tags_path | /tags/sort | sort | :collection => {:sort => :put} |
| deactivate_tag_path(id) | /tag/1/deactivate | deactivate | :member => {:deactivate => :delete} |
| preview_new_tag_path | /tags/new/preview | preview | :new => {:preview => :post} |
| tags_path(book_id)<br>tag_path(book_id, id) | /book/:book_id/tags<br>/book/:book_id/tags/:id | – | :path_prefix => "/book/:book_id"<br>(You get this for free with nested resources) |
| book_tags_path(book_id)<br>book_tag_path(book_id, id)<br>book_new_tag_path(book_id)<br>book_deactivate_tag_path(book_id, id) | *Usually used in a nested block or with a **path_prefix*** | – | :name_prefix => "book_"<br>(Should be used with a :path_prefix or in a nested resour<br>declaration) |

*Repeated resource names in **routes.rb** will overwrite previous declarations. Use **:name_prefix** to preserve dynamic method names for multiple declarations of the same resource.*

```
respond_to { |wants| wants.all | .text | .html | .js | .css | .ics | .xml | .rss | .atom | .yaml }
```

*See action_controller/mime_types.rb*

## Add New MIME types (in config/environment.rb)

```
Mime::Type.register "image/jpg", :jpg
Mime::Type.register "application/vnd.visa+xml", :visa
```

*Types listed here can be used in a **respond_to** block and as a forced format extension at the end of urls.*

## Scaffold Generator

```
./script/generate scaffold
                  Episode
                  title:string
                  description:text
                  program_id:integer
```

*Use a singular word for the model/resource name. The other arguments will be used to pre-populate the database migration and fields in view templates.*