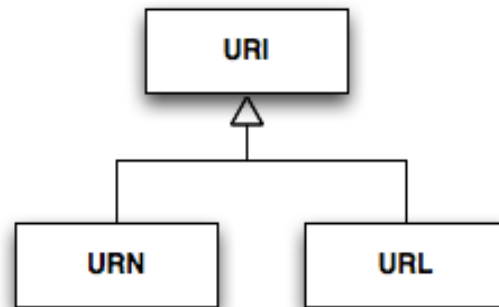


# In this lecture, we will discuss...

- ✧ URI – Uniform Resource Indicator
- ✧ Exposing resource as URI
- ✧ `rake routes`
- ✧ `httparty`

# URI vs. URL vs. URN

- ✧ A **Uniform Resource Identifier (URI)**
  - string of characters which identifies an Internet resource
  - [www.coursera.org](http://www.coursera.org)
- ✧ A **Uniform Resource Locator (URL)**
  - Most common URI out there
  - <http://www.coursera.org>
- ✧ A **Uniform Resource Name (URN)**
  - Another form of URI
  - <urn:isbn:0-619-0125356-5>



# URI

- ✧ Expose the resources using standard URIs
- ✧ Rails will automatically create URIs
  - Will register the resource in [config/routes.rb](#)
- ✧ `$ rails g scaffold_controller Movie title`
- ✧ `$ rails g scaffold_controller Actor name`



# config/routes.rb

```
Rails.application.routes.draw do  
  resources :movies  
  resources :actors
```



# rake routes

```
$ rake routes
```

Prefix	Verb	URI Pattern	Controller#Action
movies	GET	/movies(.:format)	movies#index
movie	GET	/movies/:id(.:format)	movies#show
actors	GET	/actors(.:format)	actors#index
actor	GET	/actors/:id(.:format)	actors#show

***Scaled down to show unique URI – methods not shown***



# Access URI

✧ `gem 'httparty'`

```
> HTTParty.get("http://localhost:3000/roles.json").response.code  
=> "404"
```

```
> HTTParty.get("http://localhost:3000/movies.json").response.code  
=> "200"
```



# Access URI – Actors and Movies

```
> pp HTTPParty.get("http://localhost:3000/movies.json").parsed_response
[{"id"=>"12346",
  "title"=>"rocky26",
  "url"=>"http://localhost:3000/movies/12346.json"},
 {"id"=>"12345",
  "title"=>"rocky25",
  "url"=>"http://localhost:3000/movies/12345.json"}]

> pp HTTPParty.get("http://localhost:3000/actors.json").parsed_response
[{"id"=>"100",
  "name"=>"sylvester stallone",
  "url"=>"http://localhost:3000/actors/100.json"}]
```



# Access URI – Movie

## ✧ Specific resource

- `/movies/:id` and `/actors/:id`

```
> response=HTTParty.get("http://localhost:3000/movies/12345.json").response  
=> #<Net::HTTPOK 200 OK readbody=true>  
2.2.2 :115 > response=HTTParty.get("http://localhost:3000/movies/12345.json").parsed_response  
=> {"id"=>"12345", "title"=>"rocky25", "created_at"=>nil, "updated_at"=>"2016-01-03T17:05:36.066Z"}
```





# Controller

## ✧ Update `MovieRoles` controller

```
def set_movie_role
  @movie_role = MovieRole.find(params[:id])
end
```

# Summary

- ✧ HTTP provides an excellent interface to implement RESTful services with features like a URI and existing HTTP states

## What's Next?

- ✧ Nested Resource URI