

Rails Girls Léman – Ruby on Rails

EPFL, Lausanne, 13.03.2015 – 14.03.2015



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- 💎 Introduction
- 💎 Speakers
- 💎 Ruby on Rails
- 💎 Developing the application
- 💎 The basics
- 💎 Conclusions



01. Introduction

Wifi



Username : x-railsgirls

Password : aniova17

Valid from 12-MAR-2015 until 15-MAR-2015

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Informations pour l'accès Enclair : <http://epnet.epfl.ch/WiFi-Visiteurs>

L'accès EnClair se fait depuis cette page Web(la page de login n'est visible que du réseau d'amarrage):

<https://enclair.epfl.ch>

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Informations for Enclair access: <http://epnet.epfl.ch/WiFi-Connection-Visitors>

EnClair access is available from this Web page(the login page is only reachable from the docking network):

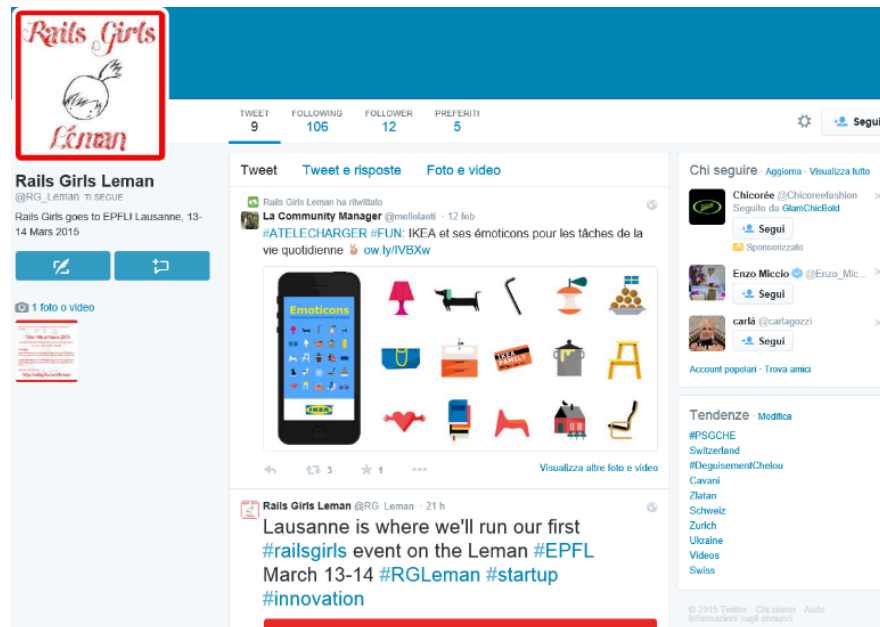
<https://enclair.epfl.ch>

Social Network



FACEBOOK:

Rails Girls Léman



TWITTER: @RG_Leman

HASHTAG: #RGLeman15

Program



Saturday 14th of March 2015

10:00 - 10:30	Breakfast
10:30 - 11:00	Welcome
11:00 - 12:00	Introduction Ruby on Rails Developing the application Speakers.
12:00 - 13:30	Lunch

Program



Saturday 14th of March 2015

13:30 - 15:30 Workshop
Developing the application

15:30 - 16:00 Break
Speakers.

16:00 - 17:00 Workshop conclusion
Conclusions and questions.

17:00 - open Afterparty



02. Speakers

Speakers



Nicoletta Casanova

IT eng., startupper and CEO FEMTOprint SA

<http://www.femtoprint.ch>

<http://ch.linkedin.com/pub/nicoletta-casanova/0/249/61b>

Megha Agarwal

Software Engineer at Cisco Systems

<https://ch.linkedin.com/pub/megha-agarwal/17/698/852>

Elise Kay

Software Developer at BBGI Group

<https://ch.linkedin.com/pub/elise-klay/a2/4b2/aab>



02. Ruby on Rails

Ruby on Rails



The programming language Ruby was created by Yukihiro Matsumoto in 1993.

The programming language Ruby is:

- 💎 open source
- 💎 general purpose
- 💎 interpreted
- 💎 object oriented

Ruby has borrowed a lot from other programming languages, such as: Smalltalk, Perl, Python, C, C++, PHP, Python...

<http://www.ruby-lang.org/en/documentation/ruby-from-other-languages/>

Ruby on Rails



RUBY ON RAILS IS...

- 💎 With Ruby on Rails , you can develop applications in a simple way minimising the part of coding that is usually repeated in every application.
- 💎 The applications developed in Ruby on Rails are especially suited for dynamic, flexible use with a continuous need for updating or future additions.
- 💎 Ruby on Rails, or RoR , is an open source MVC (Model View Controller) framework based on Ruby.
- 💎 The pattern Model View Controller is a programming convention that makes the distinction between the data representation, the logic of the application and the content more clear.

Ruby on Rails



WHY CHOOSE RUBY ON RAILS FOR DEVELOPING?

- 💎 Simple
- 💎 Intuitive
- 💎 Scalable
- 💎 Fast
- 💎 Minimises code complexity
- 💎 The code is self explanatory
- 💎 Since it eliminates the dull parts of coding, there's more time to concentrate on the essentials: the user's idea of how the app should be.

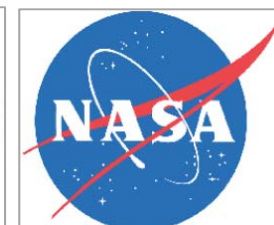
Ruby on Rails



RAILS WEBSITE: Twitter, SlideShare, GitHub, Basecamp, Shopify, Scribd, OneHub, Yellow Page, Ask.fm, Cookpad, Hulu, CrunchBase, Zendesk, MedHelp, Freckle, CrazyEgg, 43Things, ...



WHO USES RAILS:





03. Developing the application

Developing the application



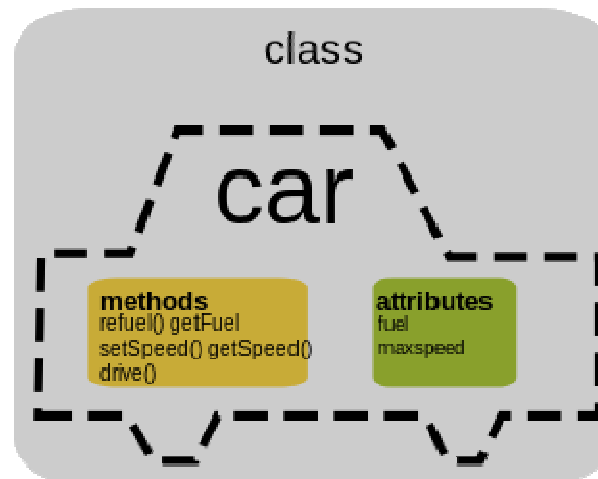
- <http://guides.railsgirls.com/app/>
- <https://speakerdeck.com/railsgirls/rg-workbook>
- [Bentobox: learn the language of technology](#)
 - write down terms you don't understand

04. The basics

The basics

Object oriented programming

- 💎 In object oriented programming (OOP, Object Oriented Programming) an object may be seen as a container of data with attributes (data) and a group of methods (procedures) defined in its class.
- 💎 An object is an instance of a class it is assigned to all the attributes and methods defined in its class.



The basics

The Model View Controller pattern

The data (model) is separated from the interface (view)

Model

- Maintains the connection between the objects and the database, and is in charge of confirming, connecting, transactions and other processes.
- Access to the data and the logic of the application
- Independent of the view and the controller.

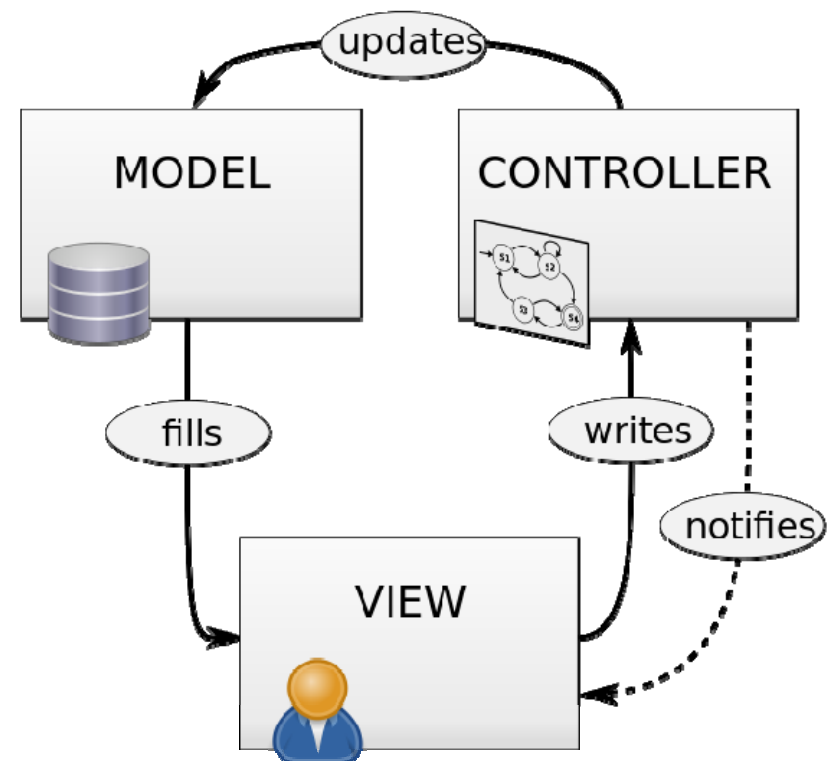
View

- Presentation of the data and interaction with the user
- Only displays what is in the model

Controller

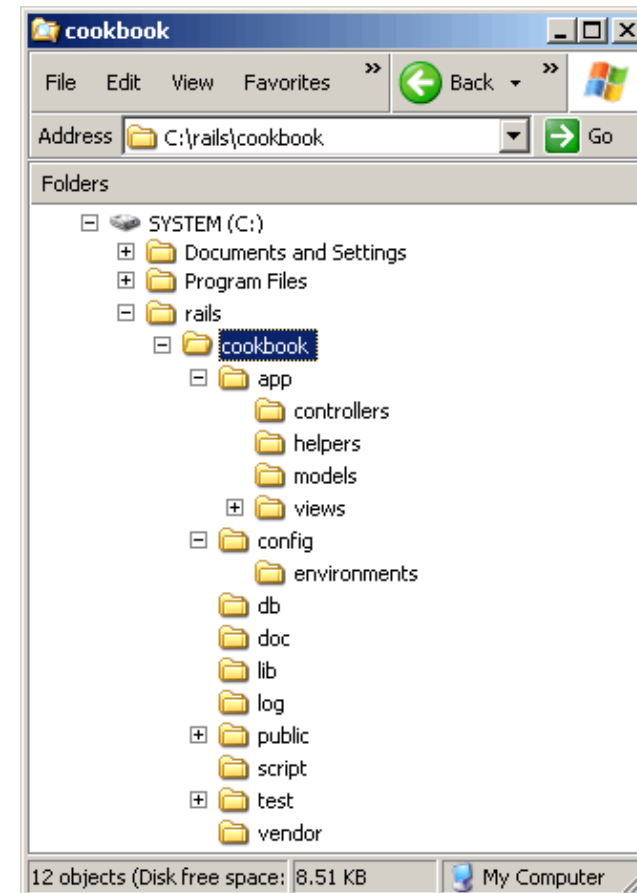
The logic of the application.

- Coordinates the interaction between the user, the view and the model.
- In charge of what is happening



The basics

- ❖ The applications developed using Rails share a common feature; they are all organised according to the same structure.
- ❖ This is because the command rails generates a group of directories and files that follow a guideline that permits Rails to implement various things automatically.
- ❖ This common structure also aids in understanding other developers' code easily, as the projects are organised according to the same principles.



The basics



Rails has configuration conventions to save the developer the trouble of having to specify e.g. the association between tables and classes.

For the association between tables and classes to work, it's enough that the tables are given the pluralised lowercase names of the classes.

Modèle / Classe	Table / Schéma
Post	posts
LineItem	line_items
Deer	deer
Mouse	mice
Person	people



**I'm
becoming
a programmer!**



05. Conclusions

After-event material



How to continue to develop your webapp...

- DEMONSTRATION: <http://railsgirls.com/materials>
- Other tutorial:

<http://railsforzombies.org/>

<http://ruby.railstutorial.org/>

<http://railscasts.com/>

<http://guides.rubyonrails.org/>

How to stay in touch if you have questions...

- Email
- Twitter
- Google Group

After-event material



- Free month teamtreehouse

<http://teamtreehouse.com/join/free-month>



- Github free subscriptions



Codeweeek



All around Europe, people are making apps, websites and lots of other things by learning to code. Join them at one of many events and clubs taking place when Code Week returns this year



Facebook Code Week: <https://www.facebook.com/codeweekswitzerland>,
<https://www.facebook.com/codeEU>

Twitter: <https://twitter.com/codeweekeu>

Google: <https://plus.google.com/+CodeweekEu/>

Website: <http://codeweek.eu/resources/switzerland/>, <http://codeweek.eu/>

Conclusions



QUESTIONS



THANK YOU



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