Goals

Once your training is over, you will be a real Ruby ninja!

* Discovering the Ruby object-oriented language
* Understanding what a framework is
* Understanding MVC
* Understanding DRY
* Comprehending agile development
* Mastering the Ruby on Rails framework
* Developing a Ruby on Rails project on one’s own
* Extending framework features
* Hosting a Ruby on Rails application
* Securing a Ruby on Rails application
* Optimizing a Ruby on Rails application

What you will learn to do

By the end of the course, participants are able to

* Develop fully functional web applications
* Teach Ruby on Rails basics to their team, colleagues and employees
* Explain their management what Ruby has to offer
* Follow agile development principles

Generally, this course is taught on site to groups of 3-5 participants.

* IT/ web departments in large businesses
* IT companies
* Web agencies
* Communication groups

Price and duration

This course lasts betweet 265 and 300 hours (around 40 days) and costs €20,000 per participant.

Syllabus

* What is Ruby (\*duration: 1 hour\*)
* What is a framework (\*duration: 1 hour\*)
* MVC (\*duration: 2 hours\*)
* Structure of a RoR project (\*duration: 1 hour\*)
* How the framework works (\*duration: 2 hours\*)
* Rails vs. other technologies (\*duration: 1 hour\*)
* Development environment (\*duration: 2 hours\*)
* Text editors (\*duration: 2 hours \*)
* Supported databases (\*duration: 1 hour\*)
* Ruby basics (\*duration: 32 hours\*)
  + IRB
  + Variables
  + Control structures
  + Loops
  + First class functions
  + Methods
  + Heritage
  + Attributes
  + Naming conventions
  + Constants
  + The nil object
  + Arrays
  + Hashes
  + Iterators
  + String class
  + File class
  + Exceptions
  + Finding documentation
* My first Rails app (\*duration: 8 hours\*)
  + Developing a project
  + Starting a server
  + Generating sources
  + Main folders
* Case study: a bookshop (\*duration: 8 hours\*)
  + Defining a data model
  + Improving an existing application
  + Adding a pinch of AJAX
  + Going further
* Rails components in detail
  + ActiveRecord (\*duration: 16 hours\*)
    - Automated mapping
    - Validation
    - Associations
    - Callbacks
  + ActionPack (\*duration: 16 hours\*)
    - URL routing
    - Filters
    - Helpers
    - Layouts
    - Partials
  + Javascript / jQuery (\*duration: 16 hours\*)
    - AJAX
    - Visual effect
    - Visual effect
    - Auto-completion
    - Unobtrusive JS
    - Best practices
  + ActionMailer (\*duration: 8 hours\*)
    - Sending an e-mail (with or without attachment)
    - Receiving and processing emails
* Advanced Ruby on Rails (\*duration: 148 hours\*)
  + Instance variable cache
  + Dynamic finders
  + Hash Finder
  + Using with\_scope
  + Using shortcut blocks with Symbol to\_proc
  + Using content\_for
  + Filtering sensitive logs
  + Model calculations
  + Virtual attributes
  + Eager Loading
    - Stack trace analysis
  + SQL injection, mass allocation and Cross Site Scripting
  + in\_groups\_of
  + Date formatting
  + Date time format in text field
  + Create a plug-in
  + Named routes
  + Using with\_options
  + RJS and debugging
  + Contributing to Rails
  + Paginating with will\_paginate
  + Using Logger
  + Optimistic Locking
  + Model name in URL
  + Currency
  + Generating PDFs
  + Generating RSS feeds
  + Creating a cache
  + Profiling
  + Handling time zones
  + Using scope
  + Tracking attribute changes