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What are **Ruby** and Rails?

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What is Ruby?

A Programming Language

An Interpreted Programming

A Fully Object-oriented Programming

A concise & elegant Programming

Everything is an object

An Fully Object-oriented Programming

- 1.class # Fixnum
- 3.14.class
Float
- [1, 'Ruby', :name].class
Array
- {:id => 11, :name => 'Luo' }.class
Hash
- (class Company;end).class
NilClass

A concise & elegant Programming(1)

```
# define a class  
class Company; end
```

```
# use the class Company  
ibm = Company.new  
ibm.methods
```

A concise & elegant Programming(2)

```
# define a class Company
class Company
  attr_accessor :id
  def name; @name; end
  def name=(name); @name=name; end
end
```

```
# use the class Company
ibm = Company.new
ibm.id = 11; ibm.name = 'IBM'
```

Everything is an object

`ibm.class`

`=> Company`

`ibm.class.superclass`

`=> Object`

`ibm.class.superclass.superclass`

`=> nil`

`nil.class`

`=> NilClass`

What is Rails?

Rails is a web-application framework

Rails is a persistence framework

Rails is a MVC (Model-View-Control) framework

Rails is a DSL (Domain Specific Language)

Rails is written with ruby language

What you need to Ruby and Rails to develop?

- For Mac OS X Leopard
vorinstallation: ruby 1.8.6 und rails 2.2.2
- Windows XP/Vista
Instant Rails: <http://instantrails.rubyforge.org/wiki/wiki.pl>
oder <http://tinyurl.com/7xvv2y>
- Ubuntu / Linux
<http://tinyurl.com/cfa54a> oder <http://tinyurl.com/3nx44j>
<http://tinyurl.com/co4uuk>
- IDE: NetBean 6.5 oder Textmate for Mac OS X

Example: Rails Application(1)

create rails application in system shell

```
rails demo && cd demo
```

```
./script/generate scaffold blog title:string body:text
```

```
rake db:migrate
```

```
./script/server
```

use the rails application in browser

```
open http://0.0.0.0:3000
```

debug, test and use the rails application in rails shell

```
./script/console
```

Example: Rails Application(2)

```
# install rails edge current version 2.3
mkdir -p myapp/vendor && cd myapp
git clone git://github.com/rails/rails.git vendor/rails
ruby vendor/rails/railties/bin/rails -v

# create a rails generator file: rails_template.rb
generate(:scaffold, "blog title:string body:text")
rake("db:migrate")

# create rails 2.3 application with rails template
ruby vendor/rails/railties/bin/rails . -m rails_template.rb
```

Source(1)

project ruby and api

- <http://www.ruby-lang.org>
- <http://www.ruby-doc.org/core/>

project rails and api

- <http://rubyonrails.org/>

news website:

- <http://www.rubyinside.com/>
- <http://www.railsinside.com/>

Source(2)

blog rails

- <http://ryandaigle.com/>

video websites:

- <http://railscasts.com/>

open books:

- <http://tinyurl.com/atpghn>
- <http://tinyurl.com/c78n6x>
- <http://tinyurl.com/qnmyt>

Source(3)

Books:

- <http://www.amazon.de/Agile-Development-Rails-Pragmatic-Programmers/dp/0977616630/>
- <http://www.amazon.de/Programming-Ruby-Pragmatic-Programmers-Guide/dp/0974514055/>
- <http://www.amazon.de/Ruby-Rails-Techniques-Developers/dp/1932394699/>