

Ruby



Che Cos'è Ruby?

- OOP
- Dinamico
- Estensibile

Ruby in Pratica

- puts “Hello, World”

Ruby in Pratica

```
irb(main):001:0> [1,2,3].each { |n| puts n }  
1  
2  
3  
=> [1, 2, 3]
```

Ruby in Pratica

```
irb(main):002:0> x = { :foo => :bar, :fun => lambda { |n| n**2 } }  
=> {:foo=>:bar, :fun=>#<Proc:0x0000000100398158@(irb):2>}  
irb(main):003:0> x[:foo]  
=> :bar  
irb(main):004:0> x[:fun].call(5)  
=> 25
```

Metodi

```
def fib(n)
  if n < 2
    n
  else
    fib(n-1) + fib(n-2)
  end
end
```

Classi

```
class String
```

```
  def reverse_with_bang  
    "#{self.reverse}!"  
  end
```

```
end
```

```
"xuni1".reverse_with_bang # => linux!
```

- Moduli
- Mixin
- DSL
- ...

Ruby on Rails



Eleganza

```
class Post < ActiveRecord::Base  
  has_many :comments  
  belongs_to :author  
  
  validates_presence_of :title, :body  
  
end
```

Produttività

Convention Over Configuration

MVC

Model

- Relazioni
- Validazioni
- ...

View

- HTML
- JS
- JSON
- XML


```
<% form_for @post do |f| %>

  <%= f.error_messages %>

  <p>
    <%= f.label :title %>
    <%= f.text_field :title %>
  </p>

  <p>
    <%= f.label :body %>
    <%= f.text_area :body %>
  </p>

  <p>
    <%= f.submit 'Create' %>
  </p>

<% end %>
```

Controller

- Routing
- API
- Filtri

```
ActionController::Routing::Routes.draw do |map|  
  
  map.resources :posts  
  
  map.connect ':controller/:action/:id'  
  map.connect ':controller/:action/:id.:format'  
end
```

```
class PostsController < ApplicationController

  before_filter :login_required, :except => [:index, :show]

  def index
    @posts = Post.all(:order => 'created_at DESC')
    respond_to do |format|
      format.html
      format.xml
      format.json
    end
  end

  def create
    @post = Post.new(params[:post])
    @post.save!
    redirect_to post_path(@post)
  rescue
    render :action => :new
  end

  ...

end
```

- Migrazioni
- Plugins
- Test
- Mailing
- Web Servers
- Web Services

Domande?