



Ruby

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- Why Ruby?
- Web development
- Sinatra
- Haml and Sass

Overview

- Object-oriented
- Dynamically typed
- Whitespace
- Parenthesis optional
- Similar to python

Ruby

- `3+2`
- `3**2`
- `Math.sqrt(9)`
- `random_types = [13, 'napkin', (1336 + 1).to_s]`
- `puts "Hello World"`
- `Ar = Array.new`
- `Range = 1..10`
- `Push, insert, <<, pop, shift, values_at`
- `Hash`

Basic Ruby

```
irb(main):015:0> def h(name)
irb(main):016:1> puts "Hello #{name}!"
irb(main):017:1> end
=> nil
irb(main):018:0> h("Matz")
Hello Matz!
=> nil
```

Functions

```
class MegaGreeter
  attr_accessor :names

  # Create the object
  def initialize(names = "World")
    @names = names
  end

  # Say hi to everybody
  def say_hi
    if @names.nil?
      puts "..."
    elsif @names.respond_to?("each")

      # @names is a list of some kind, iterate!
      @names.each do |name|
        puts "Hello #{name}!"
      end
    else
      puts "Hello #{@names}!"
    end
  end
end
```

Classes, if, loops

- Minimalistic web framework
- Handles HTTP requests
 - Get
 - Post
 - Put
 - Delete

Sinatra

```
get '/hello/:name' do
  # matches "GET /hello/foo" and "GET /hello/bar"
  # params[:name] is 'foo' or 'bar'
  "Hello #{params[:name]}!"
end
```

Sinatra Example

- Replaces pure html with a more code like readable template
- Can embed ruby code and access variables from the controller
- Rendered by the get methods of the controller
- Stylized with sass (css)

Hamli

Haml

```
#content
  .left.column
    %h2 Welcome to our site!
    %p= print_information
  .right.column
    = render :partial => "sidebar"
```

Erb

```
<div id='content'>
  <div class='left column'>
    <h2>Welcome to our site!</h2>
    <p><%= print_information %></p>
  </div>
  <div class="right column">
    <%= render :partial => "sidebar" %>
  </div>
</div>
```

Template Types

- Clean ruby syntax
- Sinatra allows you to develop web applications without learning complicated frameworks and keeping ruby at its core

Summary

Live Demos
