

An Introduction to Ruby Web Frameworks

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Commanding Your SSH Universe with Capistrano

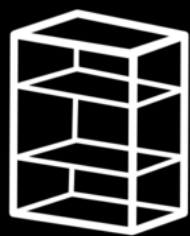
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Portland 25 I

An Introduction to Ruby Web Frameworks

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0 to Ruby in 45 minutes



rack
powers web applications

merb



Define: Framework

Framework Resuable

Framework
Encapsulated

Framework
Domain Specific!

Why Ruby?

Ruby

~~Ready to lead~~ Object
Oriented since day 1

```
User.all.reject { |user| user.admin? }.each do |user|  
  user.expire 1.days.from_now  
  user.save  
end
```

Ruby

Fine-grained Control

```
User.all.reject { |user| user.admin? }.each do |user|  
  user.expire 1.days.from_now  
  user.save  
end
```

Ruby

Promotes Beautiful Code

```
User.all.reject { |user| user.admin? }.each do |user|  
  user.expire 1.days.from_now  
  user.save  
end
```

Ruby

MRI has performance issues

Ruby Libraries?

Ruby

Alternative Implementations

YARV
(aka Ruby 1.9)



JRuby



Microsoft
IronRuby



Ruby Frameworks

Rack

Rack

Responding to the #call

```
class HelloWorld
  def call(env)
    [200, {"Content-Type" => "text/plain"}, ["Hello world!"]]
  end
end
```

Rack

Let the handlers do the
work

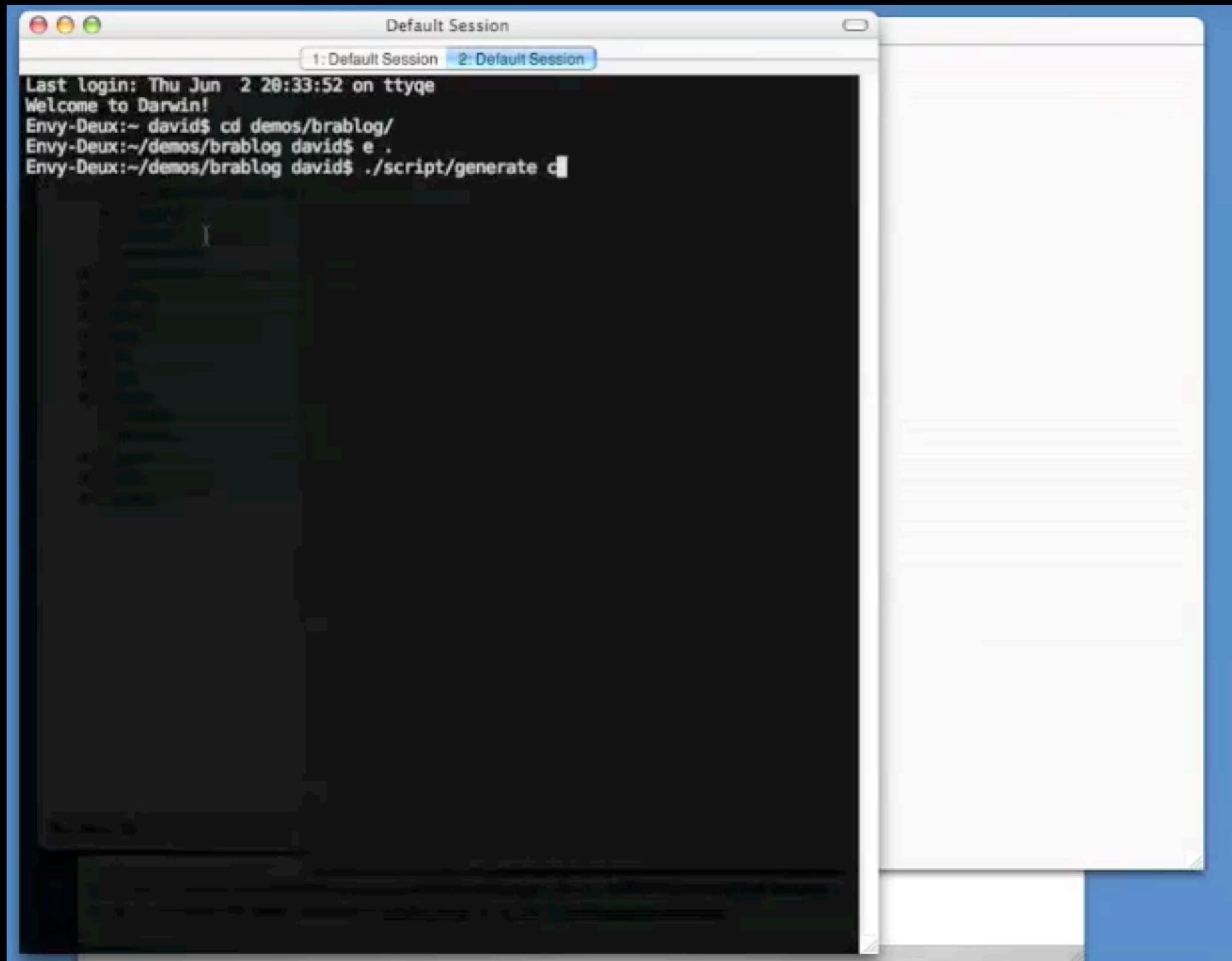
Ruby on Rails

Rails

Code Generation

Rails

Code Generation



Rails

Convention over Configuration

- Naming Conventions
 - `conference_registrations`
 - `conference_registration.rb`
 - `ConferenceRegistration < ActiveRecord::Base`
- Load Paths

Rails

Convention over Configuration

- Naming Conventions
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- Load Paths

Opinionated Software / “The Golden Path”

Rails

Domain Specific Languages

```
# models
```

```
class Publication < ActiveRecord::Base
  has_many :subscriptions
  has_many :subscribers, :through => :subscriptions,
    :class_name => 'User'
end
```

```
# rails router
```

```
ActionController::Routing::Routes.draw do |map|
  map.resources :publications, :has_many => [:subscriptions]
  map.resources :users

  map.login '/login', :controller => 'sessions', :action => 'login'
  map.connect ':controller/:action/:id'
end
```

Rails

First-class Testing

Rails

Too much magic

Rails

Moving to fast?

Merb

Merb

All you need, *nil* you don't

Merb

Eschews “magic”

Merb

Challenge: Benchmark and
Profile

Merb

Flexible == Unproductive?

Merb

Resources / Documentation

Camping



Camping

All in one file / Rapid Prototypes

```
#!/usr/bin/env ruby  
require 'rubygems'  
require 'camping'
```

```
Camping.goes :Foo
```

```
module Foo::Controllers  
  class Home < R '/'  
    def get  
      render :home_index  
    end  
  end  
end
```

```
module Foo::Views  
  def home_index  
    h1 'Home'  
  end  
end
```

Camping

All in one file / Rapid Prototypes

```
#!/usr/bin/env ruby
require 'rubygems'
require 'camping'
```

```
Camping.goes :Foo           # setup app namespace
```

```
module Foo::Controllers
  class Home < R '/'
    def get
      render :home_index
    end
  end
end
```

```
module Foo::Views
  def home_index
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```

Camping

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```

```
Camping.goes :Foo
```

```
# setup app namespace
```

```
module Foo::Controllers
  class Home < R '/'
    def get
      render :home_index
    end
  end
end
```

```
# route request to http://app/
```

```
module Foo::Views
  def home_index
    h1 'Home'
  end
end
```

Camping

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```
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```
# setup app namespace
```

```
module Foo::Controllers
  class Home < R '/'
    def get
      render :home_index
    end
  end
end
```

```
# route request to http://app/
# route get requests to http://app/
```

```
module Foo::Views
  def home_index
    h1 'Home'
  end
end
```

Camping


All in one file / Rapid Prototypes

```
#!/usr/bin/env ruby
require 'rubygems'
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```

```
Camping.goes :Foo # setup app namespace
```

```
module Foo::Controllers
  class Home < R '/'
    def get
      render :home_index
    end
  end
end
```









route request to http://app/
route get requests to http://app/
render home_index view



```
module Foo::Views
  def home_index
    h1 'Home'
  end
end
```


Camping

Small apps, Many mounts

The Camping Server		
the filesystem	module inside	mounts at
 blog.rb	Blog	/blog
 campsh.rb	CampSh	/campsh
 hoodwinkd.rb	Hoodwinkd	/hoodwinkd
 hoodwinkd/		
 controllers.rb	<i>lower files are recognized as dependencies.</i>	
 helpers.rb		
 models.rb		
 views.rb		

Camping

Structure translates to other
popular MVCs

Camping

No standard test framework

Sinatra

Sinatra

Simple. Fast. Effective.

```
#!/usr/bin/env ruby
require 'rubygems'
require 'sinatra'

get '/' do
  "Hello, World!"
end
```

Extra Credit

IOWA

Ramaze

Waves

Maveric

Mack

Nitro

Wuby

Questions?

Thank You

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