

Sinatra and the web

What's a web framework?



Your app

What's a web framework?

DB connection

Sessions

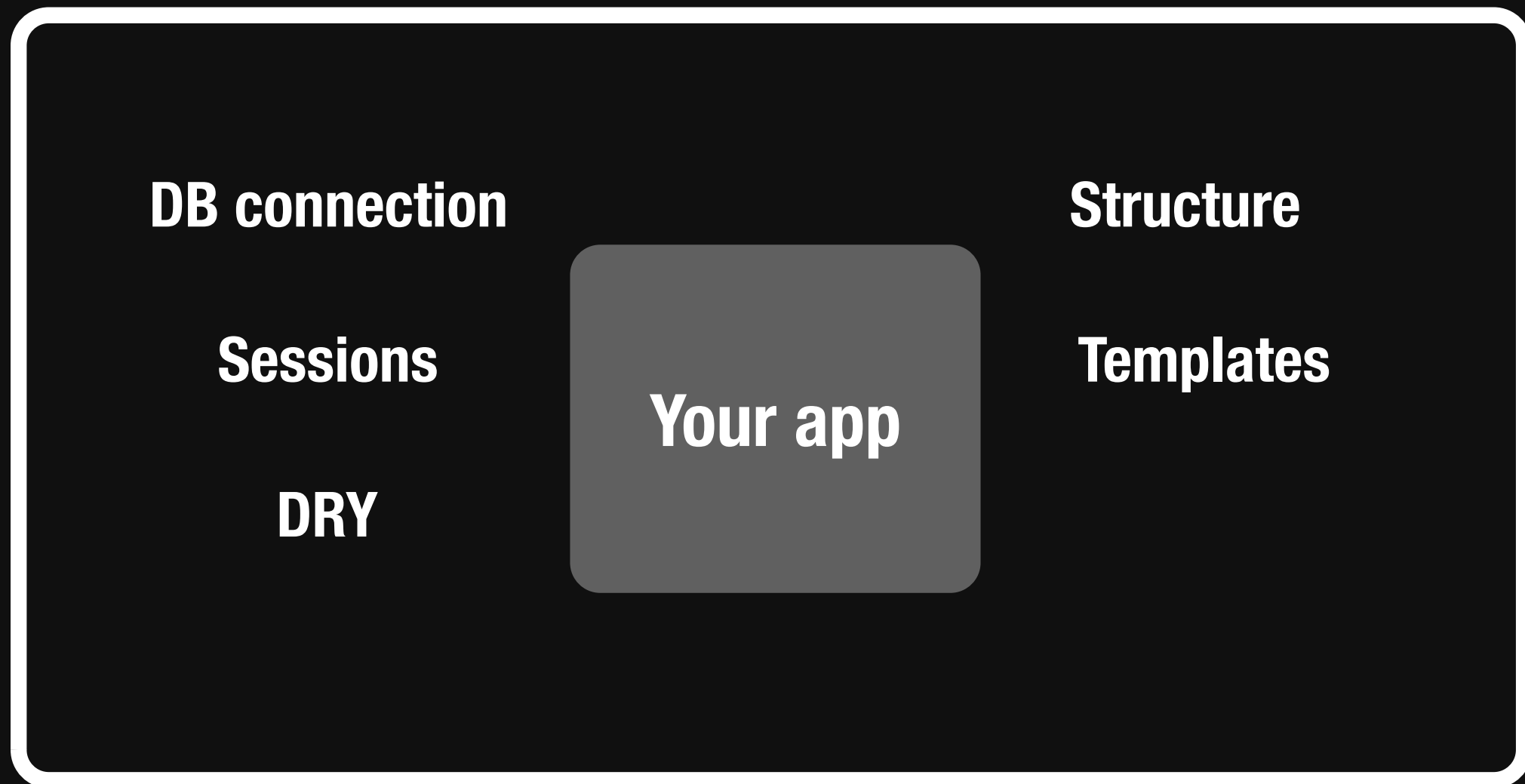
DRY

Your app

Structure

Templates

What's a web framework?



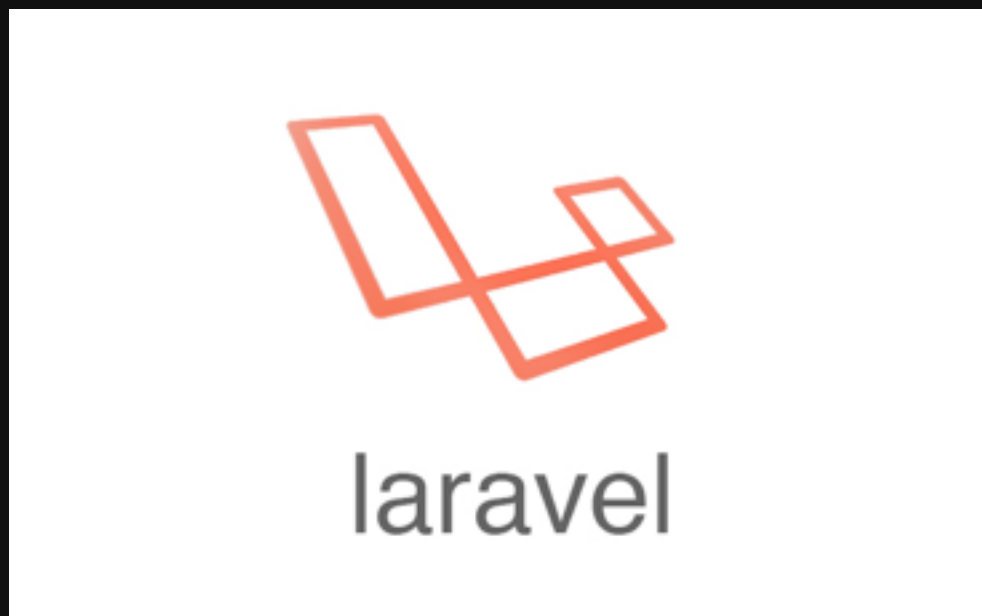
Framework

Examples

Examples



django



Sinatra

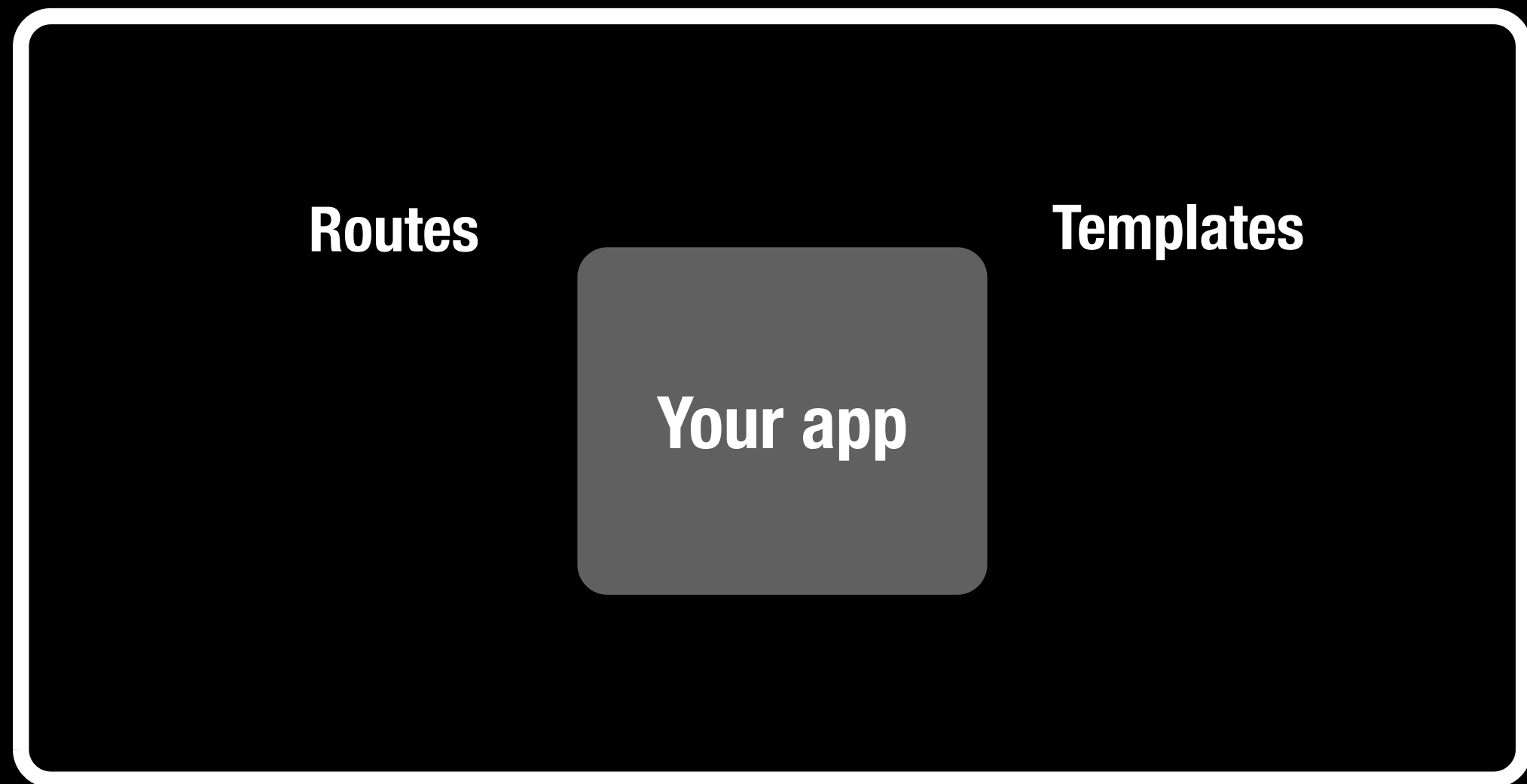
A very 'light' framework



Sinatra

“A DSL for quickly creating web applications in Ruby with minimal effort”

Perfect solution for putting our app online!



Sinatra

Gems

What is a gem?

“A package of ruby code that is reusable”

What is a gem?

“A package of ruby code that is reusable”

- ▶ **Developers do not like implementing the same things over and over again**

What is a gem?




“A package of ruby code that is reusable”

- ▶ **Developers do not like implementing the same things over and over again**
- ▶ **Common functionality can be package as **gem****

sinatra 1.3.5

Sinatra is a DSL for quickly creating web applications in Ruby with minimal effort.

INSTALL > `gem install sinatra`

 Download  Subscribe  RSS

Authors

Blake Mizerany, Ryan Tomayko, Simon Rozet,
Konstantin Haase

6,127,800 **85,179**
total downloads for this version

Owners



Links [Homepage](#) [Source Code](#) [Documentation](#) [Mailing List](#) [Bug Tracker](#)

Gemfile

```
gem "sinatra", "~> 1.3.5"
```

Versions

1.4.0.c February 26, 2013
1.4.0.b February 26, 2013
1.4.0.a February 26, 2013
1.3.5 February 25, 2013
1.3.4 January 26, 2013

[Show all versions \(62 total\)](#)

Runtime Dependencies

rack ~> 1.4
rack-protection ~> 1.3
tilt >= 1.3.3, ~> 1.3

All Categories by name

Categories by name (Show by group)

A	A/B Testing Vanity , Split , seven_minute_abs , ABingo , bandit , and 3 more	Testing
	Acceptance Test Frameworks Cucumber , Steak , Turnip , Spinach , Couda , and 7 more	Testing
	Active Record DB Adapters activerecord-jdbc-adapter , activerecord-jdbcmysql-adapter , activerecord-sqlserver-adapter , activerecord-jdbcpostgresql-adapter , activerecord-jdboderby-adapter , and 3 more	Active Record Plugins
	Active Record Default Values Default value for and Active record defaults	Active Record Plugins
	Active Record Enumerations Enumerated attribute , enumerize , Simple enum , Enumerate it , Classy Enum , and 7 more	Active Record Plugins
	Active Record Index Assistants Pella indexes , Ambitious query indexer , and lol_dba	Active Record Plugins
	Active Record Named Scopes Searchlogic , Paecar , Can search , Utility scopes , Quick scopes , and 2 more	Active Record Plugins
	Active Record Nesting Awesome nested set , Ancestry , Acts as tree , Closure Tree , Better nested set , and 2 more	Active Record Plugins
	Active Record Sharding Octopus , Db-charmer , masochism , multi_db , Data fabric , and 1 more	Active Record Plugins
	Active Record Soft Delete rails3_acts_as_paranoid , Acts as archive , Acts as paranoid , Permanent records , Acts as soft deletable , and 2 more	Active Record Plugins
	Active Record Sortables Acts as list , ranked-model , Sortable , Resort , and acts_as_neatful_list	Active Record Plugins
	Active Record User Stamping Userstamp , User stamp , Acts as audited , Record activities , Acts as loggable , and 2 more	Active Record Plugins
	Active Record Value Cleanup Attribute normalizer , Strip attributes , Nilify blanks , auto_strip_attributes , Scrubby , and 2 more	Active Record Plugins
	Active Record Versioning PaperTrail , Vestal versions , audited , Acts as versioned , Acts as revisable , and 10 more	Active Record Plugins
	Amazon DynamoDB dynamoid , take_dynamo , active_dynamodb , and dymoid	Data Persistence
	Amazon Web Services Fog , Aws-s3 , FlightAWS , aws-sdk , Amazon-ec2 , and 6 more	Provision, Deploy & Host
	API Builders Grape , xapi , acts_as_api , versionist , roy , and 4 more	Web Apps, Services & Interaction

[+ Suggest a new project](#)


SPONSORED BY

Get FREE Anycast DNS at NameTERRIFIC, the domain registrar for geeks.

POWERED BY INFLUADS

Recently added Categories

PDF Processing	about a month ago
Data Migration	about a month ago
Multitenancy	4 months ago
Test::Unit Extensions	about a year ago
Acceptance Test Frameworks	about a year ago
Recommendation Engines	about a year ago
User Messaging Systems	about a year ago
Reputation Engines	about a year ago
Amazon DynamoDB	about a year ago
Web Analytics	about a year ago

“I need a gem for...”

ruby-toolbox.com

But how do you add one to your project?

But how do you add one to your project?

1. gem install bundler

But how do you add one to your project?

1. gem install bundler

2. Create a Gemfile

But how do you add one to your project?

1. gem install bundler

2. Create a Gemfile



But how do you add one to your project?

1. gem install bundler

2. Create a Gemfile

```
source "http://rubygems.org"
```

But how do you add one to your project?

1. gem install bundler

2. Create a Gemfile

```
source "http://rubygems.org"
```

```
gem 'sinatra'
```

But how do you add one to your project?

1. gem install bundler

2. Create a Gemfile

```
source "http://rubygems.org"
```

```
gem 'sinatra'
```

3. bundle install

The Web Response Cycle

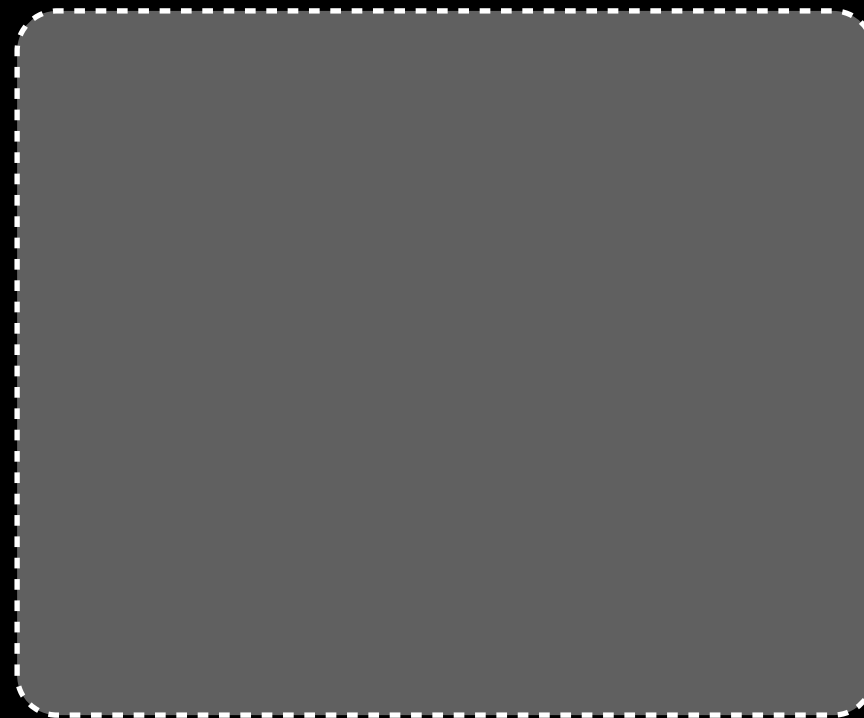
browser asks...**server** gives

browser asks....**server** gives

**User
request**

browser asks...**server** gives

**User
request**

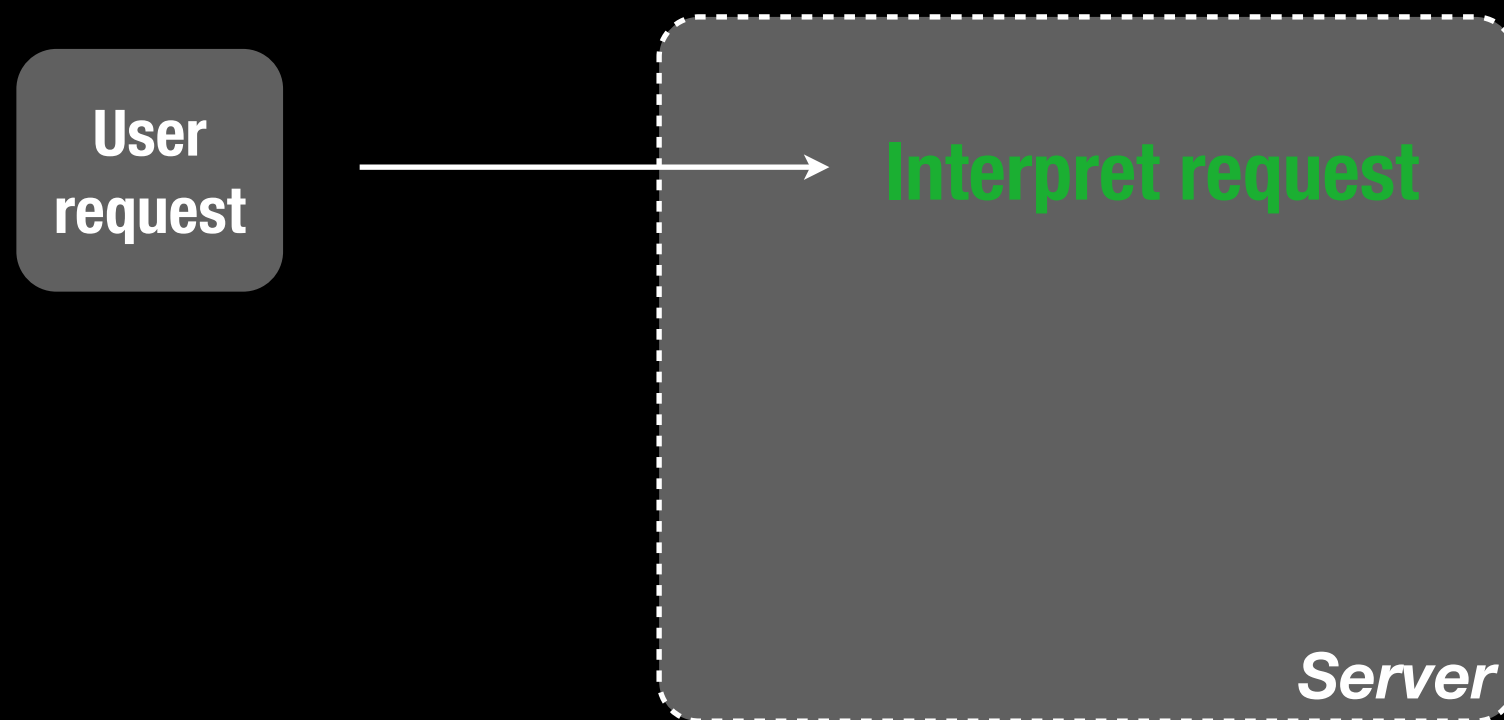


browser asks....server gives

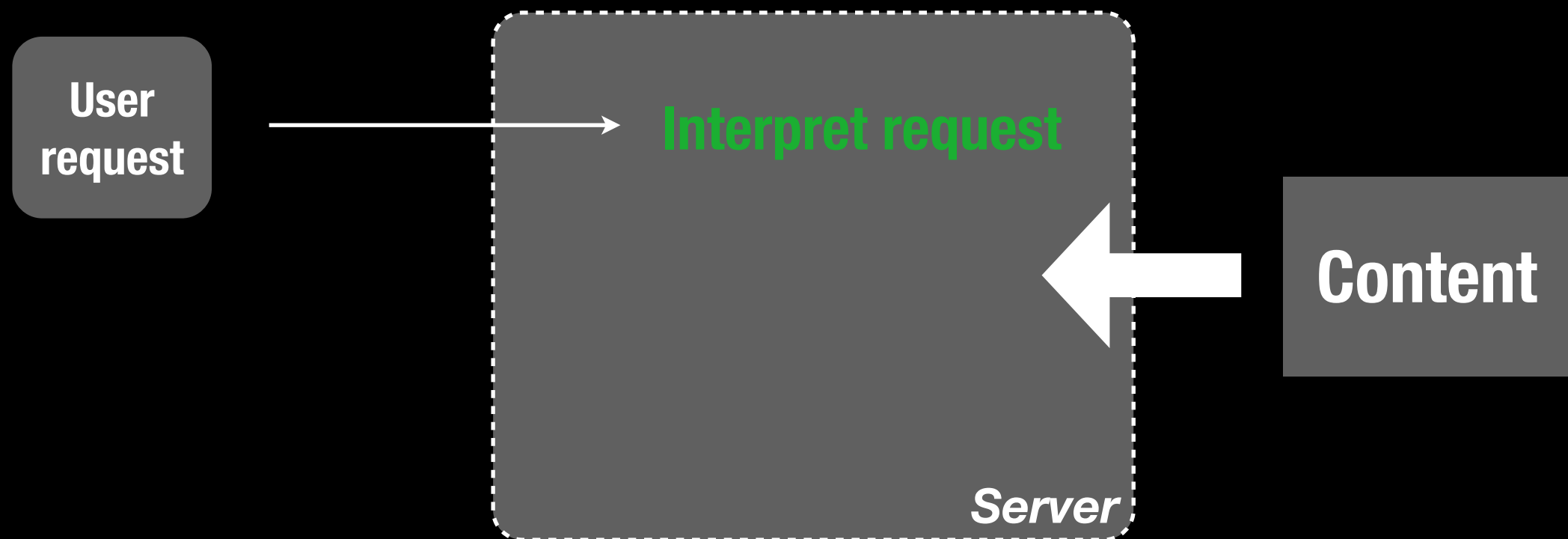
User
request

Server

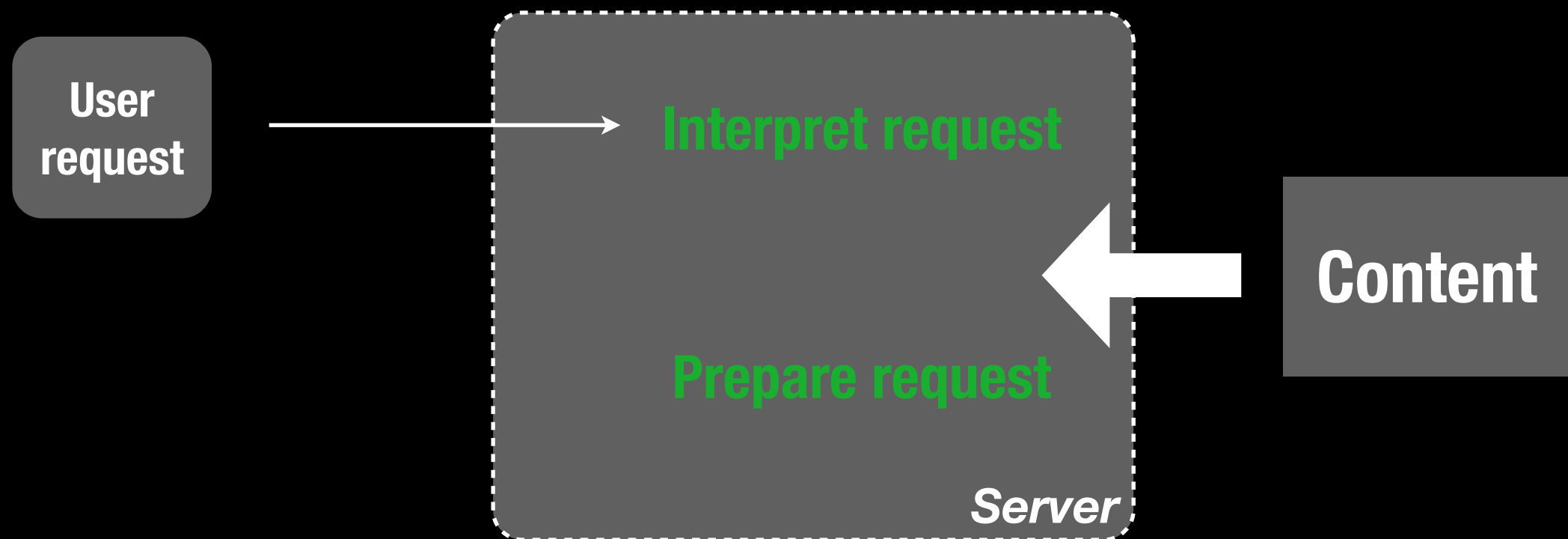
browser asks....**server** gives



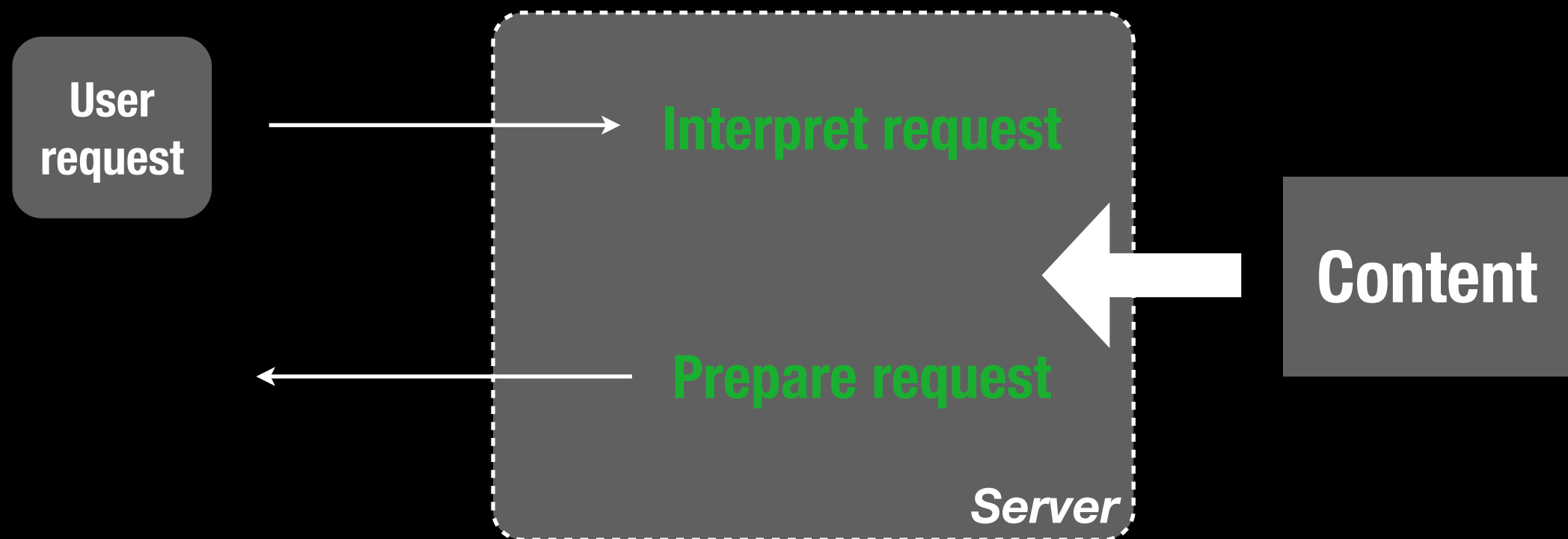
browser asks....server gives



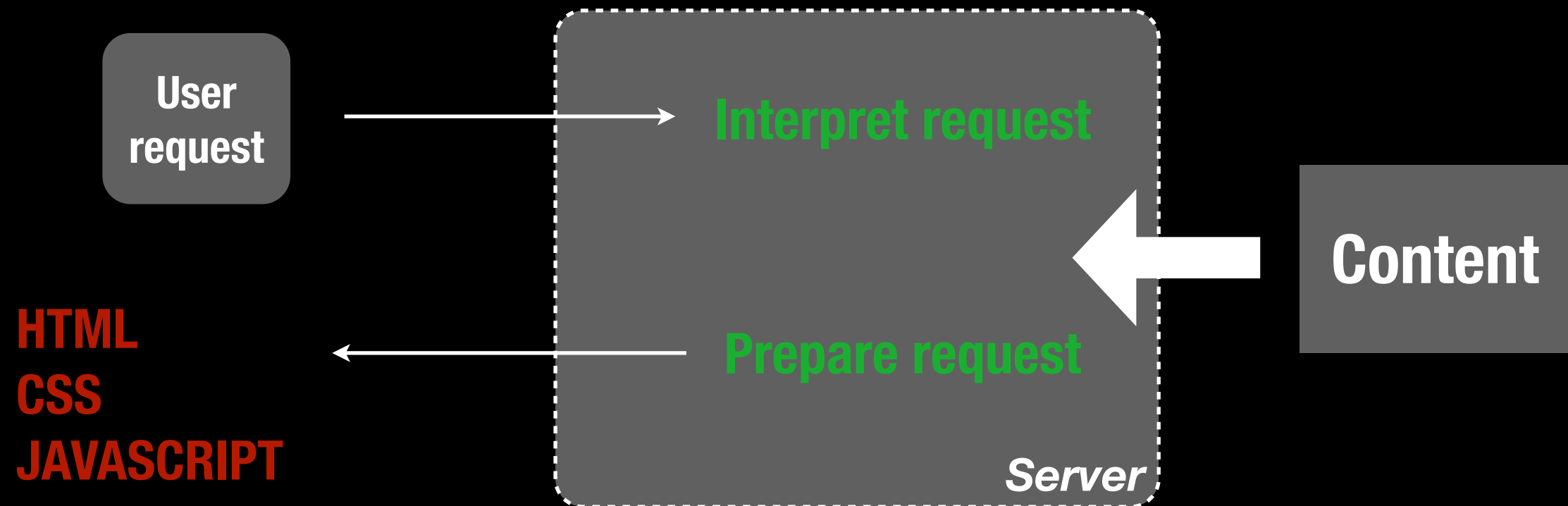
browser asks....**server** gives

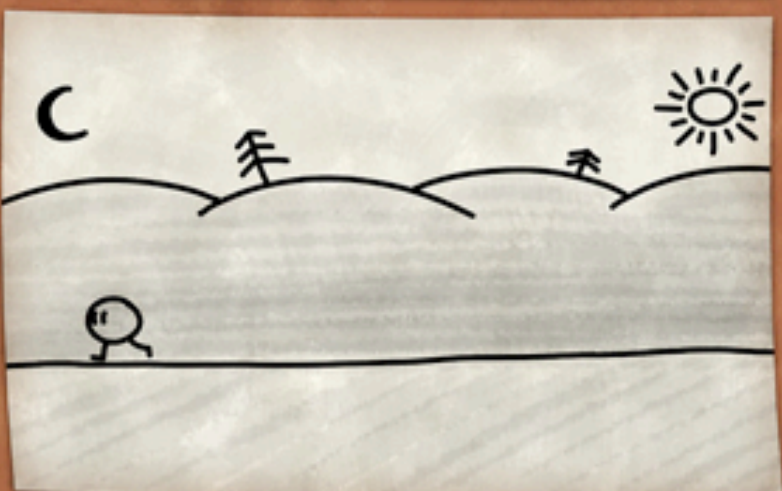
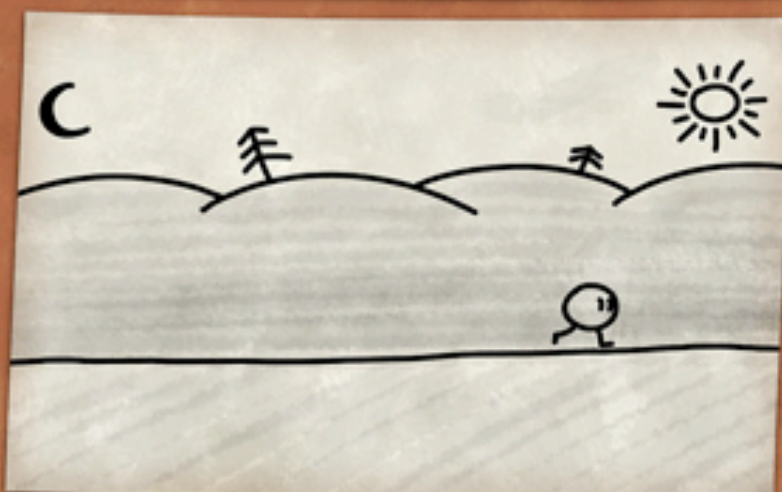


browser asks....**server** gives



browser asks....server gives





More Ruby

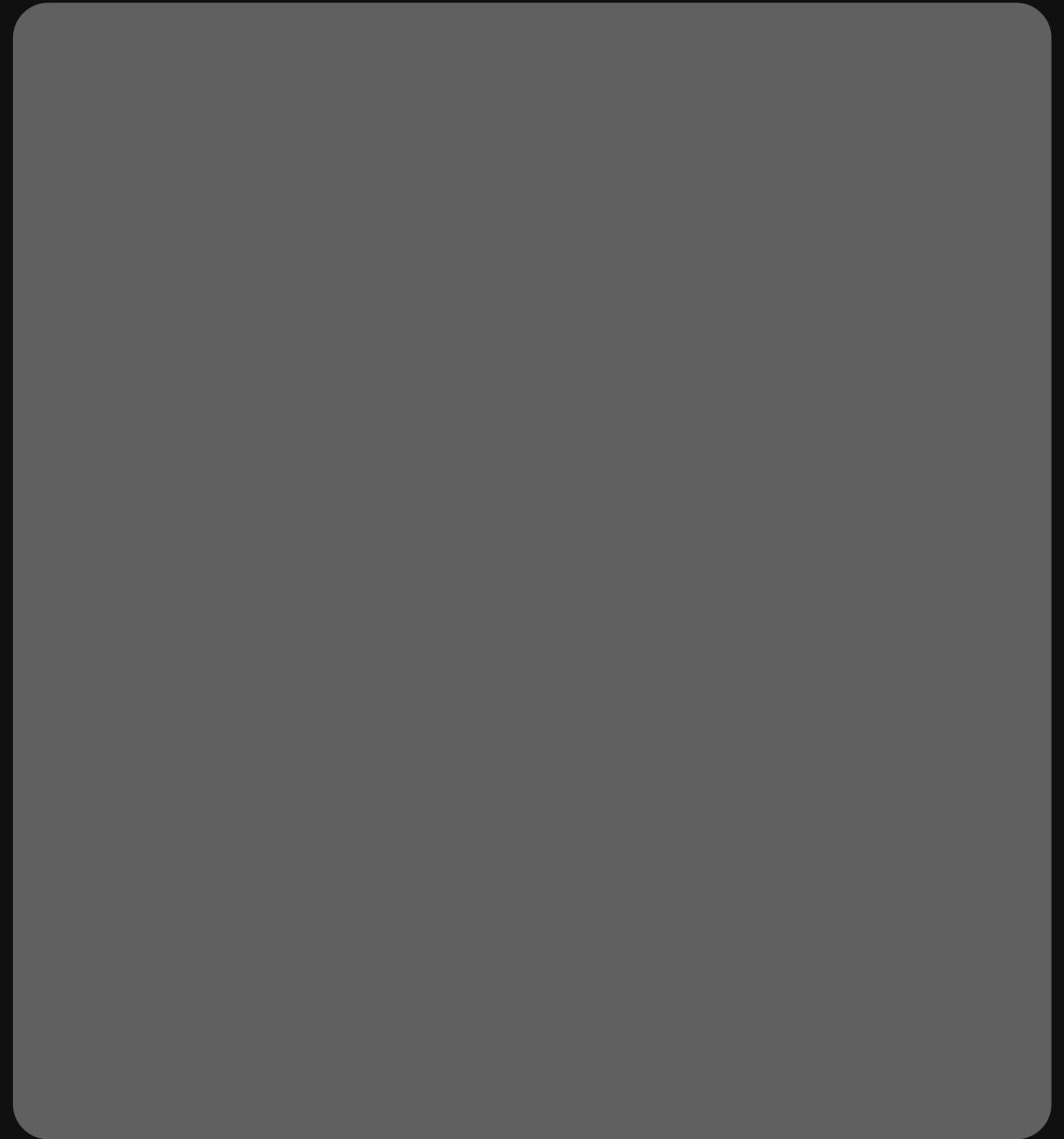
Require

“Code injection”

Our Code



Sinatra



Require

“Code injection”

Our Code

```
get '/hello' do  
  “Hello, world!”  
end
```

Sinatra

Require

“Code injection”

Our Code

```
get '/hello' do  
  “Hello, world!”  
end
```

Sinatra

Lots of complex code!

...

Require

“Code injection”

Our Code

```
require 'sinatra'
```

```
get '/hello' do  
  “Hello, world!”  
end
```

Sinatra

Lots of complex code!

...

Blocks

Pass some code as an argument

Blocks

Pass some code as an argument

```
3.times do  
  “Hello Word”  
end
```

Blocks

Pass some code as an argument

```
3.times do  
  "Hello Word"  
end
```

```
names = ["Ed", "Jeremy"]
```

```
names.each do |name|  
  "Hello #{name}"  
end
```


Let's code!