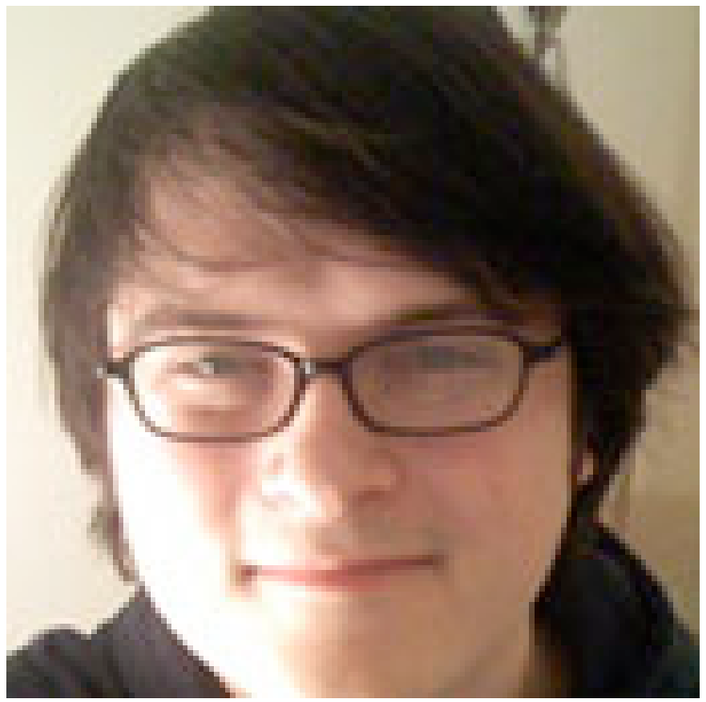
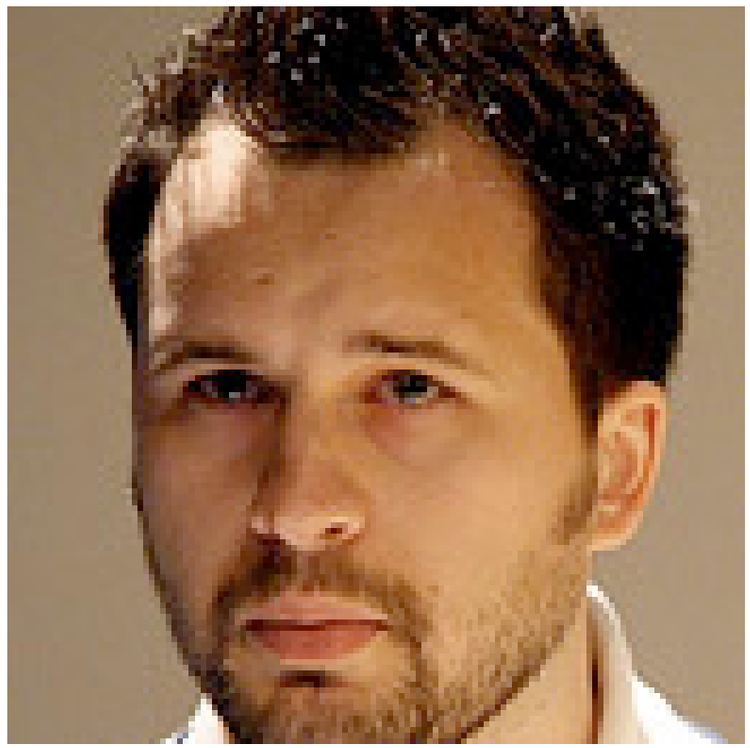
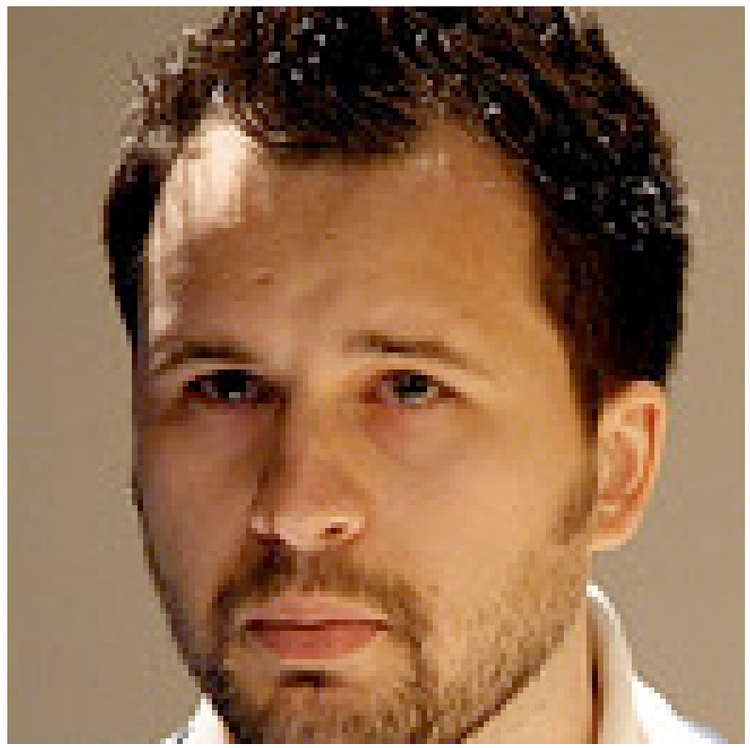
Hi!





beard



beard

Thin & Rack

© jezebel.com - http://www.flickr.com/photos/lamazone/2366616647/

http://www.mykaussie.com/images/tshirt7.jpg

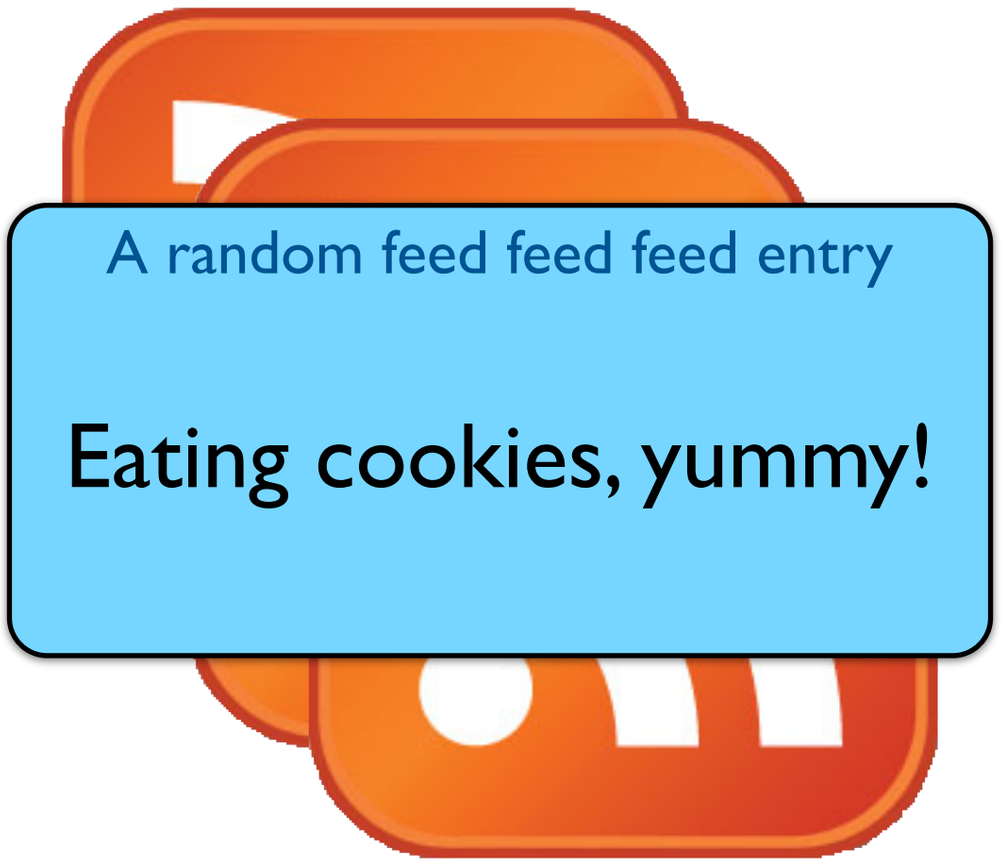
Sorry!

Story

FriendFeedFeedFeed

FriendFeedFeedFeed

beta


A random feed feed feed entry
Eating cookies, yummy!

digg
TM

1
digg

digg it

2
diggs

digg it

Zzzz...

http://dancingspoon.typepad.com/espresso.jpg

digg
TM

OMGWTFBBQ!!11!!1

632
diggs

digg it

friendfeedfeedfeed.com

We're sorry, but something went wrong.

We've been notified about this issue and we'll take a look at it shortly.

69.110.148.55 - - [09/May/2008:23:58:18 +0000] "GET friendfeedfeedfeed.com/feeds/2 HTTP/1.1" 200 712 "http://friendfeedfeedfeed.com/feeds/2" "Mozilla/5.0 (Macintosh; U; PPC Mac OS X Mach-O; en-US; rv:1.8.1.14) Gecko/20080404 Firefox/2.0.0.14"
69.110.148.55 - - [09/May/2008:23:58:18 +0000] "GET friendfeedfeedfeed.com/feeds/2 HTTP/1.1" 200 712 "http://friendfeedfeedfeed.com/feeds/2" "Mozilla/5.0 (Macintosh; U; PPC Mac OS X Mach-O; en-US; rv:1.8.1.14) Gecko/20080404 Firefox/2.0.0.14"
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A random feed feed feed entry

Eating cookies, yummy!

Cache?

~~Cache~~?

random

Thin

Ruby

A Programmer's Best Friend

Web Server

Event Driven Web Server

NGIMX

Apache
HTTP SERVER PROJECT

Process-Based

So what?

```ruby
server = TCPServer.new('localhost', 3000)

loop do
  client = server.accept

  puts client.read

  client.close

end
```

```ruby
server = TCPServer.new('localhost', 3000)

loop do
  client = server.accept

  puts client.read

  client.close

end
```

Client

Server

Client

Server

```ruby
server = TCPServer.new('localhost', 3000)

loop do
  client = server.accept

  puts client.read

  client.close

end
```

```ruby
server = TCPServer.new('localhost', 3000)

loop do
  client = server.accept
  Thread.new do
    puts client.read

    client.close
  end
end
```

Client

Client

Client

Server

Client

Client

Client

Server

Thread

Thread

Thread

Time

Resources

(?)

macournoyer @kernel notify me if readable about 12 hours ago from web

Non-Blocking Sockets

I/O Multiplexing

OMGWTFBBQ!!11!!1

F*******

F******

You lost me at I/O

Complex

Ruby

A Programmer's Best Friend

http://rev.rubyforge.org/

http://rubyeventmachine.com/

python™

http://twistedmatrix.com/

http://code.google.com/p/pyev/

http://software.schmorp.de/pkg/libev.html

Event Driven

Event Driven Web Server

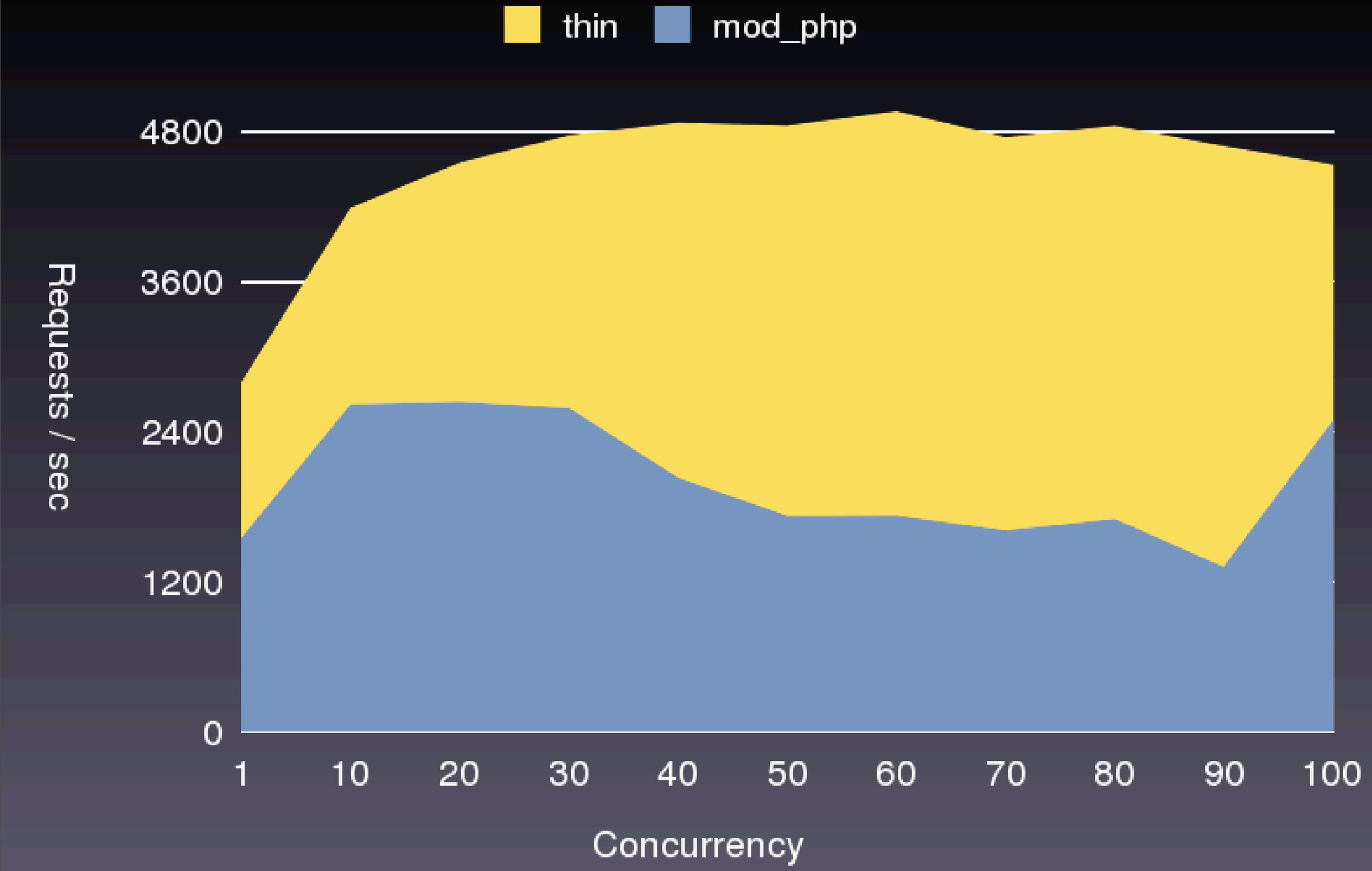
```ruby
server = TCPServer.new('localhost', 3000)

server.on_readable do
  client = server.accept
  client.on_readable do
    puts client.read

    client.close
  end
end
```

More Connections

Less Memory

Faster

Server benchmark



HTTP

Simple

Flexible

Elegant

Beautiful

and

Sexy

Sexy

Request → Response

Request

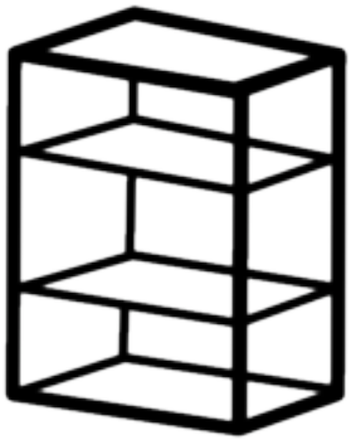
```
POST /path HTTP/1.1
Host: localhost
Connection: close
Content-Length: 6

ohaie!
```

Response

```
HTTP/1.1 200 OK
Content-Length: 34
Content-Type: text/html
```

```
<html>
  <h1>kthxbaie</h1>
</html>
```

Thin



rack

powers web applications

Ruby

A Programmer's Best Friend

API

HTTP

WSGI

API

1 line

```
proc { |env| [200, {}, "kthxbai"] }
```

```
POST / HTTP/1.1
Host: localhost
Connection: close
Content-Length: 6

ohaie!
```

```
env = {
 "REQUEST_METHOD"  => "POST",
 "PATH_INFO"       => "/",
 "HTTP_VERSION"    => "1.1",
 "HTTP_HOST"       => "localhost",
 "HTTP_CONNECTION" => "close",
 "CONTENT_LENGTH"  => "6"
}
```

```
[
  200,
  {
    "Content-Length" => "34",
    "Content-Type" => "text/html"
  },
  [
    "<html>",
    "  <h1>kthxbaie</h1>",
    "</html>"
  ]
]
```

```
HTTP/1.1 200 OK
Content-Length: 34
Content-Type: text/html

<html>
 <h1>kthxbaie</h1>
</html>
```

```ruby
class MyApp
  def call(env)
    [
      200,
      { 'Content-Type' => 'text/plain' },
      "you requested " + env['PATH_INFO']
    ]
  end
end
```

Run it

my_app.ru

```
run MyApp.new
```

```ruby
map '/other' do
  run OtherApp.new
end

run MyApp.new
```

```
use Rack::CommonLogger

map '/other' do
  run OtherApp.new
end

run MyApp.new
```

```
thin start -R my_app.ru
```

merb

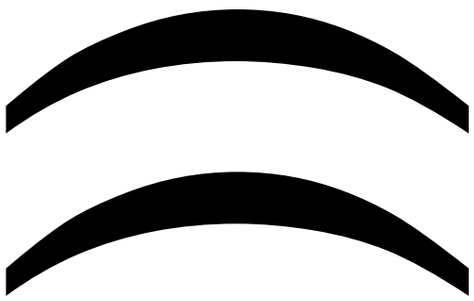
Sinatra

Thin

Ebb

FastCGI

LITESPEED
TECHNOLOGIES



A random feed feed feed entry

Eating cookies, yummy!

A random feed feed feed entry

Eating cookies, yummy!

```
self.demo! :code
```

Thanks!

http://code.macournoyer.com/thin

Questions ?