



# iOrek

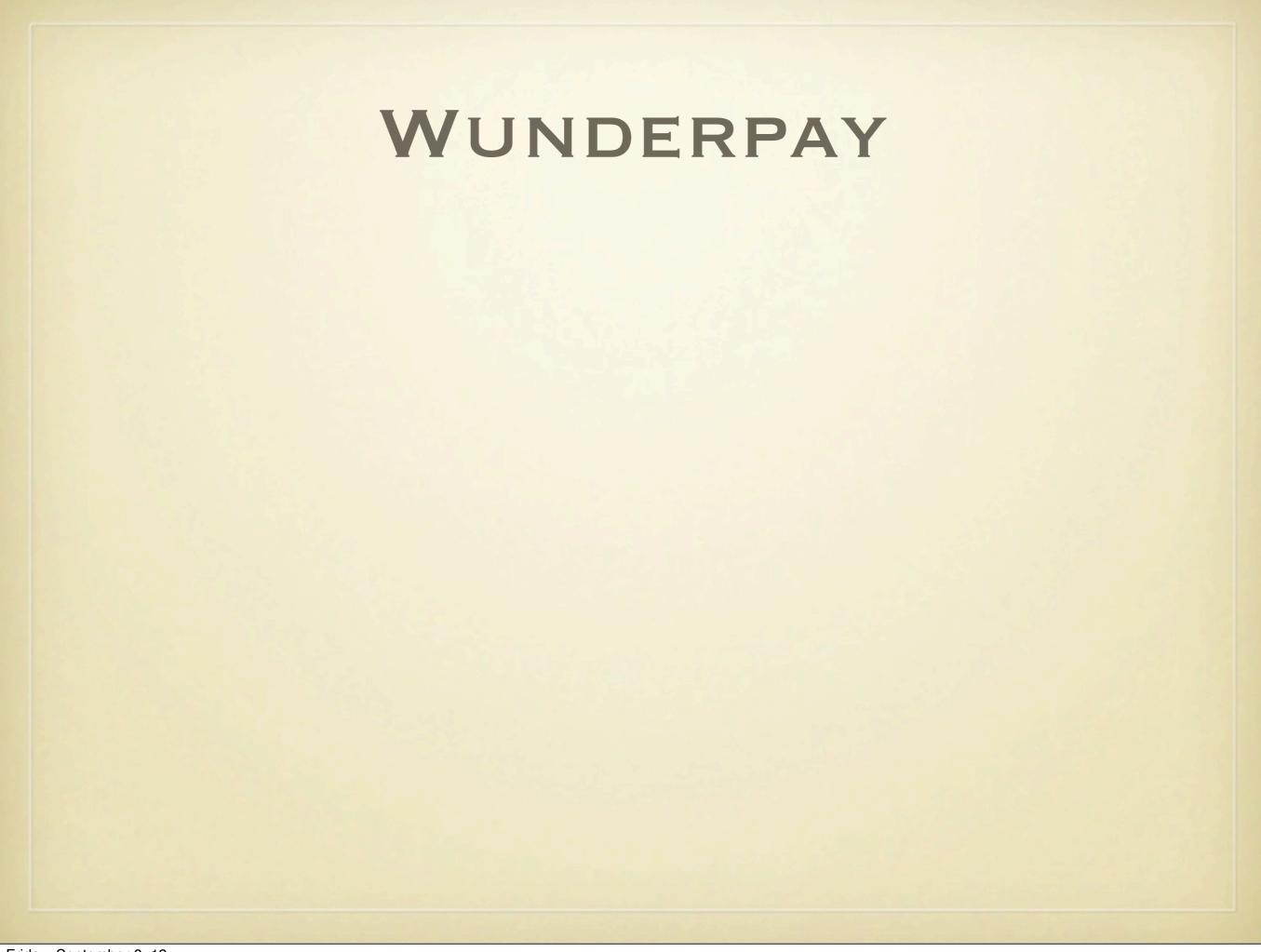


## DISCLAIMER

- Benchmarking is hard
- Questions at the end

# FRED GEORGE





## WUNDERPAY

Create Subscriptions

#### WUNDERPAY

- Create Subscriptions
- Get subscription for a user

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- Create Subscriptions
- Get subscription for a user

#### RAILS

```
1 # app/controllers/s_controller.rb
2 class SController < ApplicationController
3  def show
4    if subscription = current_user.subscription
5       render json: subscription.as_json
6    else
7       render json: {}
8       end
9       end
10 end</pre>
```

## AB RAILS

```
$ ab -n 1000 <a href="http://127.0.0.1/user/123A">http://127.0.0.1/user/123A</a>
Requests per second: 177.88 [#/sec]
Time per request: 5.622 [ms]
```

#### RAILS - Y U SLOW??

```
1 # app/controllers/s_controller.rb
2 class SController < ApplicationController
3  def show
4    if subscription = current_user.subscription
5       render json: subscription.as_json
6    else
7       render json: {}
8       end
9       end
10 end</pre>
```

## RAILS - Y U SLOW??

Assumption: DB is the limiting factor

#### RACK PART 1

```
1 require 'sequel'
 2 class Database
  def self.connection
      @connection | = Sequel.connect(
        'mysql:
        //root@localhost/wunderpay development'
  end
 9 end
10 class Subscription
    def self.exists for(user id)
11
12 Database.connection[
13
        "SELECT 1
14
         FROM Subscriptions
15
         WHERE user id = '#{user id}'
16
       LIMIT 1"
17 ].count > 0
18 end
19 end
```

#### RACK PART 2

```
1 class MyApp
     def call(env)
       if env['REQUEST PATH'] =~ /user\/(\w*)/
         unless Subscription.exists for ($1)
           [200, {}, ["{}, n"]]
 5
 6
         else
           301,
 8
             {"Location" => "http://wunderpay.de"},
             ["\n"]
10
11
         end
12
     end
13 end
14 end
```

## AB RACK

```
$ ab -n 1000 http://127.0.0.1/user/123A
Requests per second: 856.72 [#/sec]
Time per request: 1.167 [ms]
```

#### RACK Y U SO FAST??

- Assumption was WRONG
- 5times faster than Rails

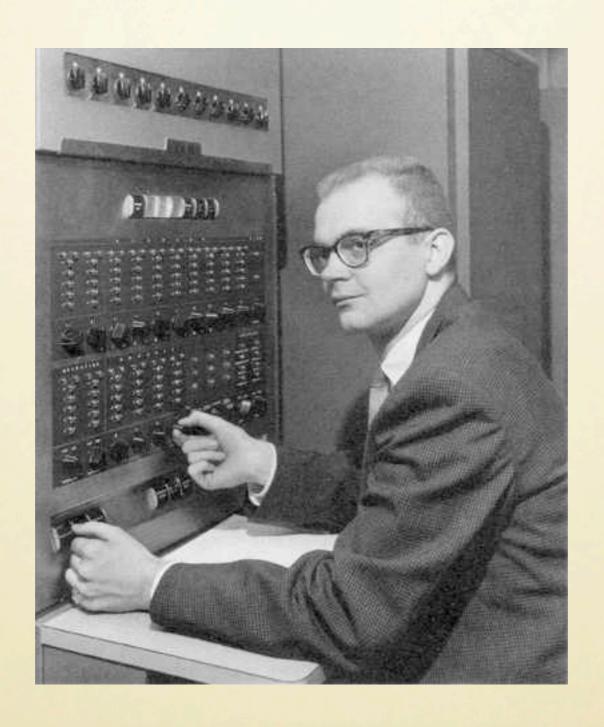
#### RACK MICROSERVICE

```
1 class MyApp
     def call(env)
       if env['REQUEST PATH'] =~ /user\/(\w*)/
         unless Subscription.exists for ($1)
           [200, {}, ["{}, n"]]
 5
         else
           301,
 8
             {"Location" => "http://wunderpay.de"},
             ["\n"]
10
11
         end
12
     end
13 end
14 end
```

## RACK MICROSERVICE

- Transparent
- Throw away
- Simple.Simple.Simple

# RACK MICROSERVICE



#### HOW FAST CAN WE GET?





#### NGINX & LUA PART 1

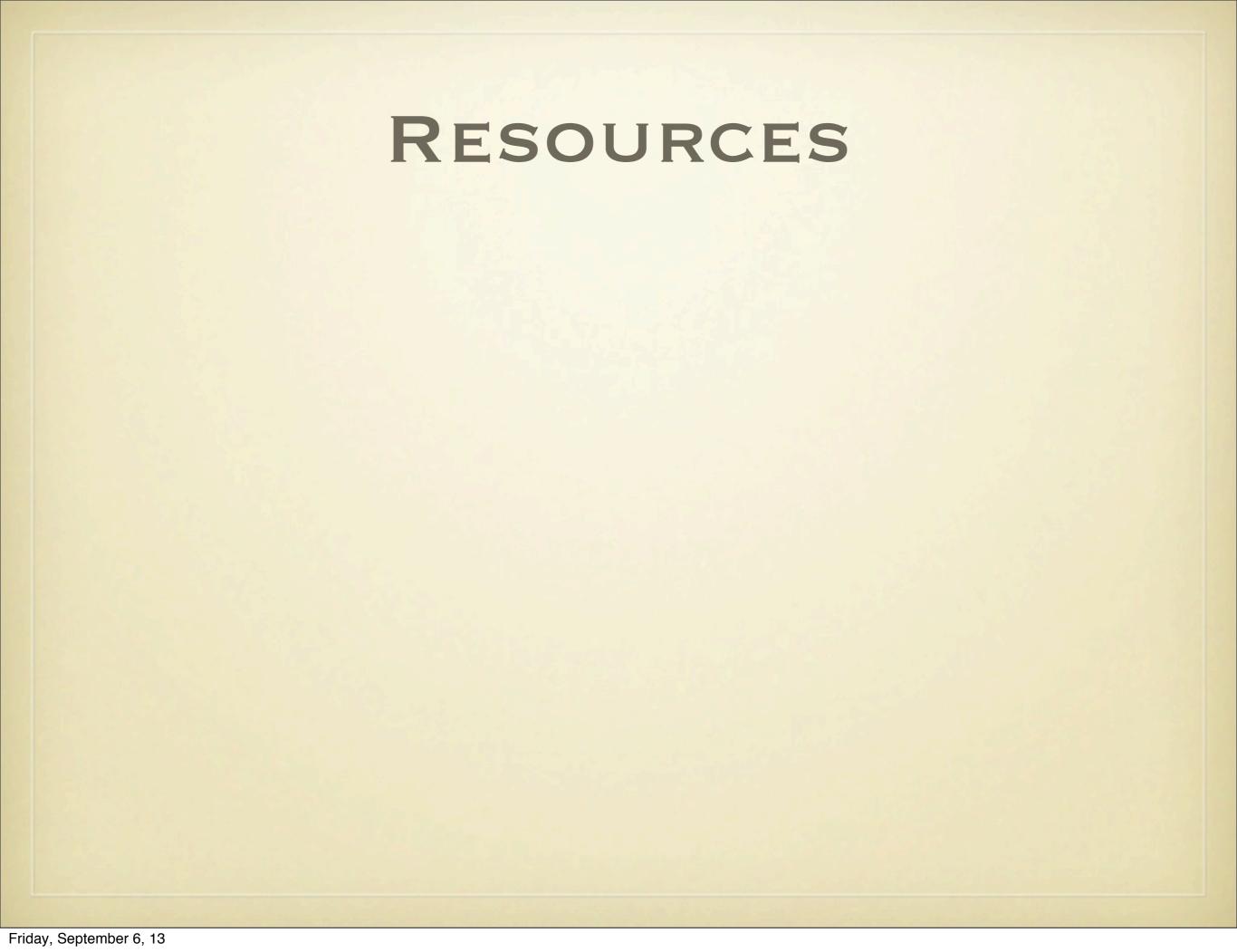
```
1 worker processes 1;
 2 error log logs/error.log;
 3 events {
 4 worker connections 1024;
 5 }
 6 http {
 7 server {
 8 listen 8080;
      location ~ /user/(\w*) {
10
        set $user id $1;
11
        content by lua '';
12
13 }
14 }
```

#### NGINX & LUA PART 2

```
1 local mysql = require "resty.mysql"
 2 local db, err = mysql:new()
 3 db:set timeout(1000)
 5 local ok, err, errno, sqlstate = db:connect{
 6 host = "127.0.0.1",
 7 \quad \text{port} = 3306,
 8 database = "wunderpay_development",
9 user = "root"
10 }
11
12 res, err, errno, sqlstate = db:query(
13 "SELECT 1 " ...
14 "FROM subscriptions " ...
15 "WHERE user id = \'"..ngx.var.user id..
16 "\'"
17)
18 if next(res) == nil then
19 ngx.say("{}")
20 else
21    ngx.redirect("http://wunderpay.de")
22 end
```

## AB NGINX & LUA

```
$ ab -n 1000 http://127.0.0.1/user/123A
Requests per second: 1752.04 [#/sec]
Time per request: 0.571 [ms]
```



# RESOURCES

- 1.Rails
- 2.Rack
- 3.Nginx & Lua

