Laravel Meetup

About things and front end performance.

Last month in Laravel

- Release date
- Scheduler
- Homestead 2.0
- Latest packages

5.0MG Release date

- January 2015

Scheduler

- No more * * * * 1

```
public function schedule(Schedulable $scheduler)
{
    //every day at 4:17am
    return $scheduler
        ->daily()
        ->hours(4)
        ->minutes(17);
}
```

One cron to rule them all

```
* * * * * /usr/bin/rcron php /path/to/artisan scheduled:run 1>> /dev/null 2>&1
```

- Indatus/dispatcher

Latest packages

```
"mascame/arrayer": "1.*",
"morilog/jalali": "dev-master",
"robbiep/cloudconvert-laravel": "1.*@dev",
"deefour/presenter": "~0.1@dev",
"adityamenon/postcodes-io": "~1.0",
"bitolaco/silex-eloquent": "*",
"mlantz/hadron": "dev-master",
"howtomakeaturn/csvdumper": "1.0.0"
```

Frontend Performance

- International PHP conference talk
- Philip Tellis

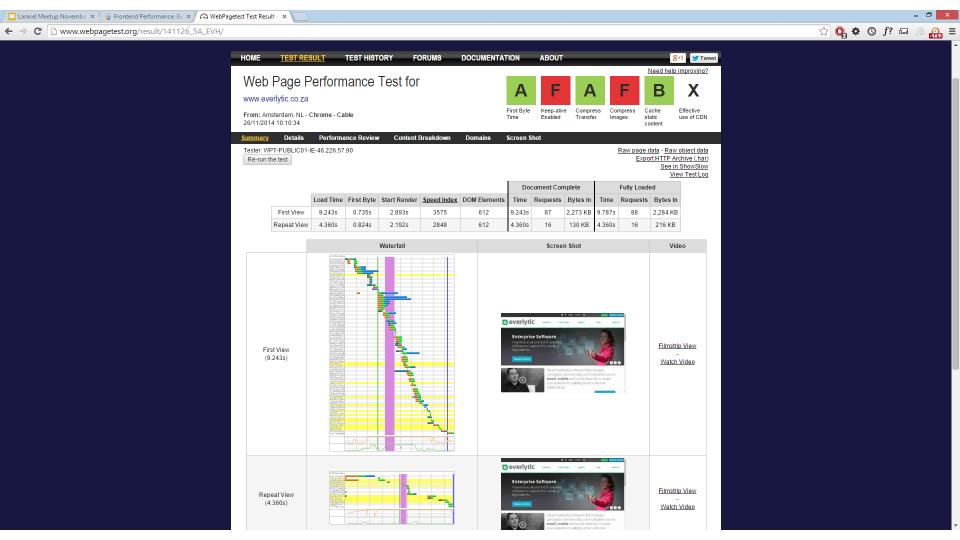
Get the most benefit with the least effort

OBeginning

Start with a slow site

Start Measuring

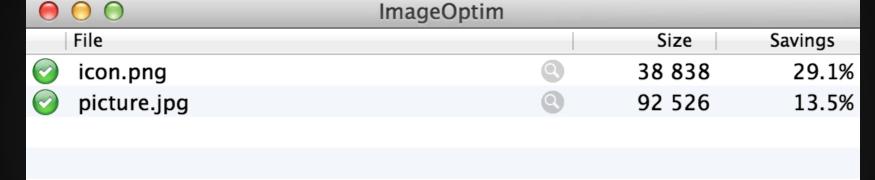
webpagetest.org



0.2 Enable gzip

0.3 ImageOptim

imageoptim.com





0.4 Cache control

YAY

You are now a beginner

1

What the experts do

1.1 CDN

Split your JS

Audit your CSS

Parallelise downloads

Flush early and often

Get bytes to the client a.s.a.p to avoid

TCP slow start

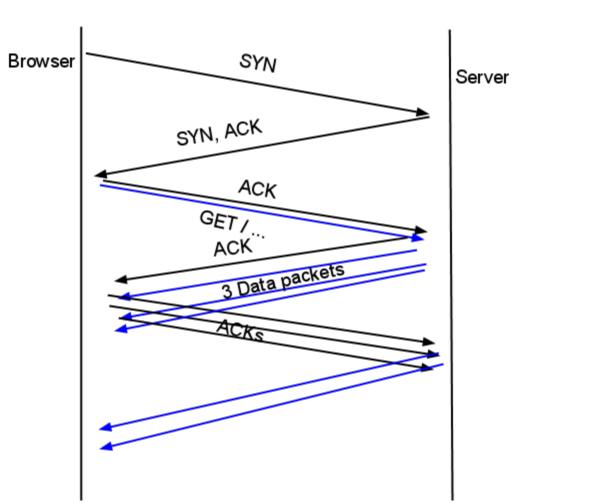
Increase initcwnd

Initial congestion window

1 TCP packet

= 1500 bytes

1.5 kb



3 way handshake

- Step 1: Client sends SYN to server "How are you? My receive window is 65,535 bytes."
- Step 2: Server sends SYN, ACK "Great! How are you? My receive window is 4,236 bytes"
- Step 3: Client sends ACK, SEQ "Great as well... Please send me the webpage http://www.example.com/"
- Step 4: Server sends 3 data packets. Roughly 4 4.3 kb (3*MSS1) of data
- Step 5: Client acknowledges the segment (sends ACK)
- Step 6: Server sends the remaining bytes to the client

JS files <= 15kb

1.6b

net.ipv4.tcp_slow_start_after_idle=0

1.7 mod_pagespeed | ngx_pagespeed

https://developers.google.com/speed/pagespeed/module

Woot!

You are now in expert land

2

Crazy-Here-Be-Dragons-Land

Study real user data

Pre-load assets

2.1b

Pre-render

<link rel="prerender" href="url">

2.1b

Subresource (chromium)

<link rel="subresource" href="">

2.1b

DNS Prefetch (FF)

<link rel="dns-prefetch" href="">

2.1c on Visibility Change

2.2 Post Load

Fetch optimal assets after onload

Detect broken Accept-Encoding

Prepare for HTTP/2.0

Multiple assets over the same tcp connection by default

3rd Party Failures

blackhole.webpagetest.org

Remove non-crit assets out of the crit path

CrazyLand fin.