

Задача

1. Пользователь должен тратить меньше времени на ожидание, чем сейчас

А зачем это нужно?

- 1. Чем быстрее пользователь начнёт работу тем лучше
- 2. Каждый запрос DNS lookup + HTTP request + headers + 4J [*]
- 3. Каждая секунда ожидания уменьшает потенциальные продажи [*]
- 4. Google, скорость загрузки страниц и SEO [*]

http://www.gomez.com/pdfs/wp_why_web_performance_matters.pdf

А чем мы можем помочь?



80-90% of the end-user response time is spent on the frontend. Start there.

Steve Souders, http://www.stevesouders.com/blog/2012/02/10/the-

performance-golden-rule/

А что почитать?

- Steve Souders "High Performance Web Sites"
- Steve Souders "Even Faster Web Sites"
- Stoyan Stefanov "Web Performance Daybook Volume 2"
- Nicholas Zakas "High Performance JavaScript"

14 правил от Steve Souders



14 правил от Steve Souders...

- 1. Make Fewer HTTP Requests
- 2. Use a Content Delivery Network
- 3. Add an Expires Header
- 4. Gzip Components
- 5. Put Stylesheets at the Top
- 6. Put Scripts at the Bottom
- 7. Avoid CSS Expressions

...14 правил от Steve Souders

- 1. Make JavaScript and CSS External
- 2. Reduce DNS Lookups
- 3. Minify JavaScript
- 4. Avoid Redirects
- 5. Remove Duplicated Scripts
- 6. Configure ETags
- 7. Make AJAX Cacheable

Сжимаем JavaScript

- Closure Compiler Service (advanced mode)
- YUI Compressor
- UglifyJS (javascript)
- /packer/
- <u>r.js</u> (AMD)

Сжимаем CSS

- YUI Compressor
- <u>r.js</u> (AMD)
- CSS Compressor (online)
- Minify CSS (online)
- Robson CSS Compressor (online)
- Sqwish (node.js)

Сжимаем графику

- pngcrush, pngout, OptiPNG, Image Worsener
- jpegtran, jpegoptim
- gifsicle
- Smush.it (online)

Сжимаем HTML

- HtmlCompressor
- WebMarkupMin (.NET)
- HTML Minifier

Сжимаем шрифты

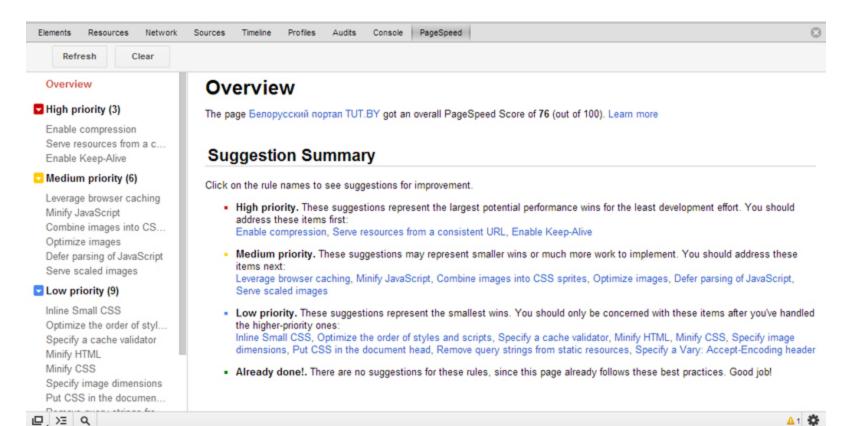
• Font Squirrel

Сжали. Что дальше?

- Lazy loading, contextual loading [*]
- Deferred parsing
- Fast JavaScript
- COMET, Web Sockets
- Web Workers
- CSS images and fonts
- Fast CSS [*]
- ...



PageSpeed



YSlow

Home Grade Components Statistics	Rulesets YSlow(V2) Edit	② Help↓
	6 Ruleset applied: YSlow(V2) URL: http://www.tut.by/ IE (2) CSS (6) IMAGES (2) JAVASCRIPT (4) SERVER (6)	Share
F Make fewer HTTP requests F Use a Content Delivery Network (CDN)	Grade F on Make fewer HTTP requests	
A Avoid empty src or href	This page has 13 external Javascript scripts. Try combining them into one. This page has 3 external stylesheets. Try combining them into one. This page has 14 external background images. Try combining them with CSS sprites. Decreasing the number of components on a page reduces the number of HTTP requests required to render the page, resulting in faster page loads. Some ways to reduce the number of components include: combine files, combine multiple scripts into one script, combine multiple CSS files into one style sheet, and use CSS Sprites and image maps. **Read More**	
F Add Expires headers F Compress components with gzip		-
B Put CSS at top		
A Put JavaScript at bottom E Avoid CSS expressions		
n/a Make JavaScript and CSS external	Copyright © 2013 Yahool Inc. All rights reserved.	
D Reduce DNS lookups		
A Minify JavaScript and CSS		
A Avoid URL redirects		
A Remove duplicate JavaScript and CSS		
F Configure entity tags (ETags)		
A Make AJAX cacheable		

Online-инструменты

- Pingdom
- GTmetrix
- WebPagetest
- Google Analytics

HTTP Archive

- Текущая статистика
- История
- Тренды

Спасибо!

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