Website uptime and performance crash course

David Rydell, Pingdom

Agenda

- Why should I work with performance
- Why should I monitor my website
- How to improve performance
- How to monitor my website



Things we all recognise but want to avoid

Errors are everywhere

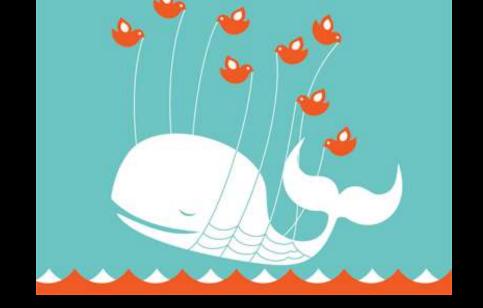


Error establishing a database connection

This either means that the username and password information in your vp-config.php file is incorrect or we can't contact the database server at localhost. This could mean your host's database server is down.

- · Are you sure you have the correct username and password?
- · Are you sure that you have typed the correct hostname?
- · Are you sure that the database server is running?

If you're unsure what these terms mean you should probably contact your host. If you still need help you can always visit the WordPress Support Forums.





Server Error

The server encountered a temporary error and could not complete your request.

Please try again in 30 seconds.





Benefits of monitoring & speed optimization

- Increase traffic and sales/leads
- Decrease bounce rate
- Benchmark your speed
- Gather statistics
- Keep track of your hosting and external providers
- Avoid negative press and buzz

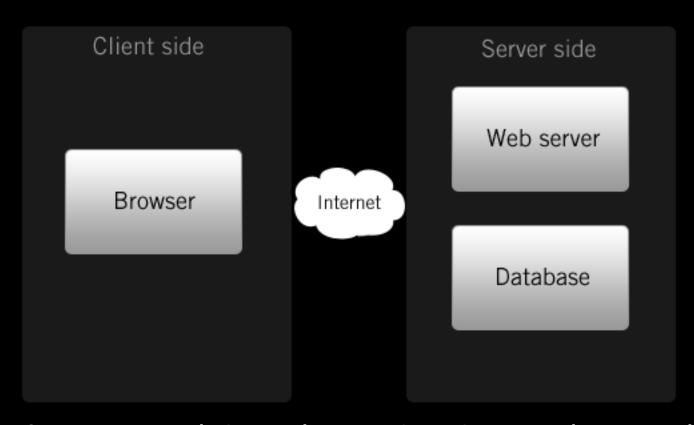


Some statistics

- Website downtime costs European companies over €5 billion a year
- 500 ms slower website means a 20% drop in traffic for Google
- 100 ms slower website means a 1% drop in sales for Amazon
- 47% of web users expect a site to load within 2 seconds, twice as fast as in 2006 (Akamai)
- Front end stands for 80-90% of the load time (Yahoo!)



Make sure your system works and performs



front end (client) and back end (server)



Measuring performance with Yslow

- Yslow measures and grades your website performance
- Firefox extension
- Download at: developer.yahoo.com





Some simple performance tips

- Smaller is better, less to transfer
- Use fewer requests, reduces overhead



Some simple performance tips – Smaller is better!

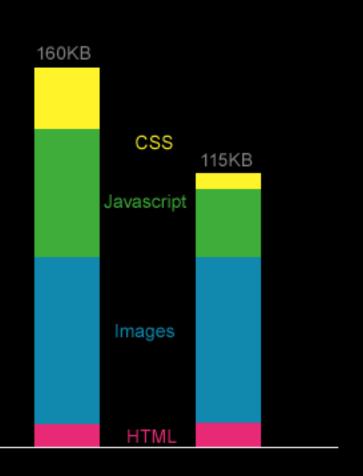
- Compress images
- Easy with smush.it in Yslow
- Aftonbladet.se
 - 167 images, 1274.3 KB
 - 7.51% smaller, 93.63 KB saved

Smushed 7.51% or 93.63 KB from the size of your image(s). How did we do it? See the table below for more details.



Some simple performance tips – Smaller is better!

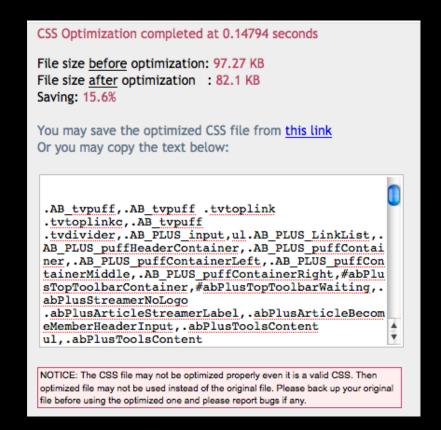
- Compress files with Gzip
- Enable on your web server
- Can improve performance of about 15-25%





Some simple performance tips – Smaller is better!

- Minify CSS and Javascript files
- Removes unnecessary white space and comments
- Free tools available





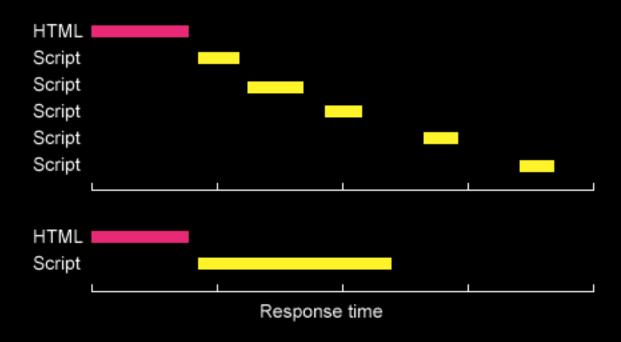
Some simple performance tips – Use fewer requests

- Use CSS sprites
- Manual work
- Several images
 can be combined
 into one image



Some simple performance tips – Use less requests

- Combine CSS and Javascript files
- Saves requests
- Can be done automatically using free tools





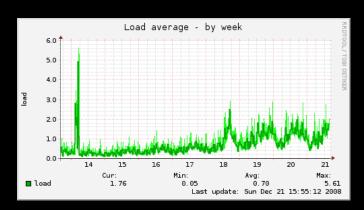
Back-end monitoring

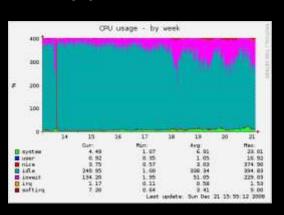
- Test your servers, software and networks
- Internal monitoring
- External monitoring

Internal monitoring

Check system health

- Database servers
- CPU usage
- Disk I/O
- Critical values for your website
- Software: Nagios, Zenoss, Hyperic



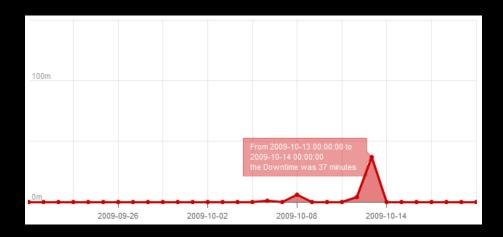




External monitoring

Check uptime and response time

- Uptime from the outside, as for real users
- Monitors from several geographical locations
- Configure alerts for downtime
- See load time from different locations





What to do next?

- Download and install Yslow to see how you can improve website speed
- Want more performance tips? Get the books by Steve Souders
- Monitor your site for downtime. Get a free Pingdom account



Thanks for listening!

Questions? david@pingdom.com