Website Optimization

Meaning

Website optimization is the process of making changes to your website so that it will appear higher in search engine results pages (SERPS). Based on a number of factors, search engines evaluate your website's relevance and readability before assigning it a position or ranking on the search engine results page. The more relevance the search engines determine your website has for a given search, the higher the website will rank. When you consider that more than 60% of Internet users will not look beyond the first page of search results, it's important to use search engine optimization to push your ranking as high as possible. SEO services for website optimization address a variety of factors, including: keyword selection, adding and refreshing content, creating search-engine friendly design, building links, and resolving technical issues that may drive search engines away.

Tips for website performance optimization

1) Optimize your images.

Let's just state the obvious: larger images result in longer load times (since your browser is pulling down more data). So pick the right size for the job: high-quality images of your products are one thing, while a "follow us on Twitter" image is another.

Also, choose the right image format for the job at hand. You'll want to know about the different formats and when to use them. Lastly, be sure to resize images directly, rather than using HTML scaling. Setting width="600" height="220" doesn't work well – and, you're still forcing the larger file to be downloaded in full.

2) Reduce http requests.

Your developers may like to maintain a distinct set of CSS files to help keep things organized during development. Combine those files into a smaller set when your page goes live and you can reduce the number of HTTP requests to your web servers. Java script files can be combined as well.

In addition, look into image sprites, which allow you to combine several images into one. From there, you can use CSS to dictate which portion of the combined image gets rendered.

3) Use text instead of images.

Balance good design with great performance. Text renders much faster than images and is far more effective for SEO. Always use text (vs. images) for headers.

4) Optimize your html.

Don't copy/paste from other applications, such as word processors. They can bring over lots of complex HTML that will slow load times on your page.

Also, use simple (not nested) structures in your HTML and stay standards-compliant, as browsers will be able to parse your page more efficiently.

Finally, know that whitespace is good for readability (for humans), but add to the overall size (in bytes) of your page.

5) Cache your output.

This may be a slightly more advanced topic, but you can optimize performance by performing caching at both the server-side and client (browser) side. Server-side caching limits the number of queries you make to the database server, while browser caching can reduce HTTP requests and payload.

6) Use a content delivery network (CDN)

Content Delivery Networks (CDN) can be effective for serving up static content, including images, multimedia and file downloads. They're known for providing high availability and high performance. Their distributed nature means that content is being served up "closer" to the end user. For more info, check out "7 Reasons to Use a CDN."

7) Avoid bad requests.

Check for HTTP 404 errors ("Page Not Found") and avoid re-directs on resources. Also, monitor server errors and work with your developers to address any repeated errors.

8) Enable gzip compression.

Use gzip compression to decrease the size of page content. The resulting page content can be transmitted faster, though this does require additional processing power on the client (browser) side. For more details on setting this up, check out "How to Optimize Your Site with GZIP Compression."

9) Choose infrastructure wisely.

Whether you're hosting your website "on premise," with a hosting provider or with a cloud provider, you'll get what you pay for. If you're running a production quality website (i.e. outages can affect your business or organization), avoid shared hosting. Instead, ensure that you hosting infrastructure is dedicated to your site.