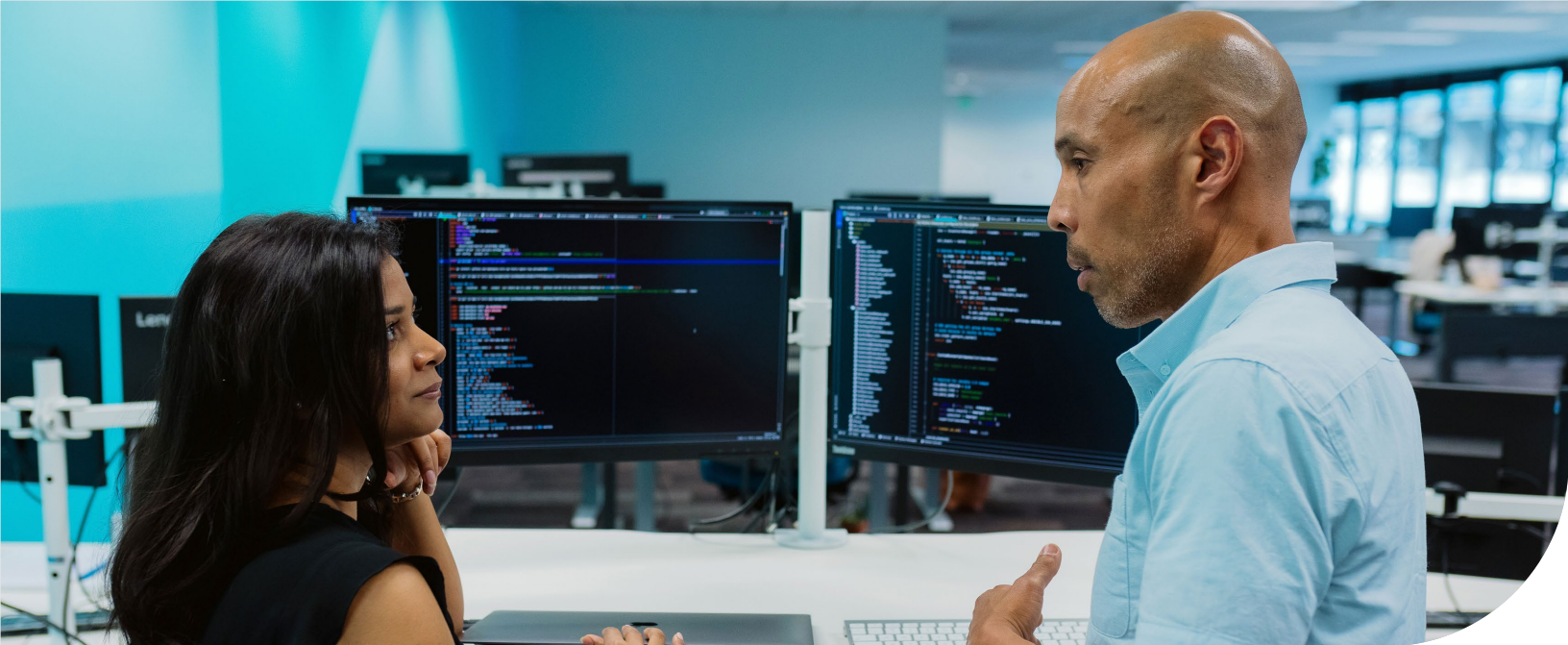


Improve WordPress Speed and Performance:

The key to maximizing value for your clients





Your client's website...

...is a key tool in their marketing arsenal. Empower them to make the most of it.

It's never a great feeling when you realize an avoidable mistake led to a frustrating, buggy experience on a client's website. And as upsetting as it may be for you—just imagine what their customers are thinking.

One study found that at least 77% of consumers acknowledge a page's loading speed can influence their pre- and post-purchase behavior—whether it's their decision to buy, return for repeat business, or recommend a brand to a friend.

As an agency, your clients count on you to provide reliable, sturdy, and flexible web experiences that meet the rapidly changing demands of the digital marketplace. Providing that level of assurance is a big part of the value you bring as an agency—if not the largest.

Thankfully, the versatility of WordPress can make this endeavor relatively straightforward.

Introduction	2
ABT: Always Be Testing	3
Plugins: Helping or hurting?	4
Monitor your cache settings	5
Use a content delivery network	6
Optimize your static assets	7
Keep it simple: Writing effective theme logic	9
Select the right host for the job	9

ABT: Always Be Testing

Managing load times can involve a considerable amount of experimentation. That's why it's always a good idea to develop initial benchmarks, which can then serve as a comparison point for future changes.

One particularly helpful set of benchmarking metrics is [Google's Core Web Vitals](#), which are three key metrics that provide insights into aspects of site and page performance that affect user experience, such as page loading speed, interactivity, and visual stability. Striving for improvement with these elements will not only boost the load time of your clients' websites, but their overall search ranking.

You can use tools like the [Google Search Console](#) to measure and track these benchmarks, reflecting data mined from actual user experiences in the field. You'll not only get deeper insights into how visitors are interacting with your site, but likely identify areas for potential improvement.

If you're troubleshooting your site, [Google PageSpeed Insights](#) is another essential resource that can provide diagnostic feedback via a simulated build of your website.. Rather than relying solely on field data, PageSpeed Insights allows for dynamic testing for optimization, without any changes going live before they're ready.

After documenting the present state of the site's performance, obvious areas for improvement will likely be apparent. Whatever the results, this data empowers your agency to make informed changes as you optimize your clients' sites.

IMPORTANT:

Benchmarking's a crucial step.
Never skip it!

Google's Core Web Vitals



Largest Contentful Paint (LCP):

LCP measures the time it takes for the largest content element visible in the viewport to load—this is typically the main content of the page, such as an image, video, or large block of text. Google recommends striving for a score of less than 2.5 seconds, with 2.5 to 4.0 seconds indicating room for improvement. Anything above 4.0 seconds is considered "Poor."



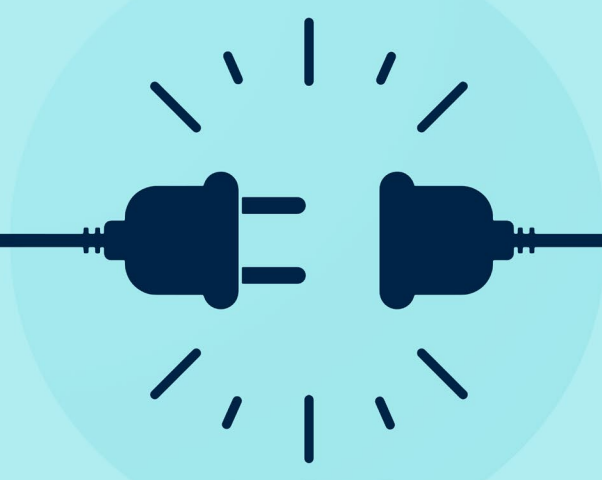
Interaction to Next Paint (INP):

INP tracks the time it takes for a webpage to respond visually to user interactions, such as clicks, taps, or key presses. Ideally, reactions like these should take less than 200 milliseconds, with anything more than 500 considered "Poor."



Cumulative Layout Shift (CLS):

CLS records how often elements on a page unexpectedly move, which can be jarring and frustrating for some users. Google recommends striving for a score of 0.1 or less. Note: CLS is a unitless measure that reflects the combined movement of all unstable elements during the page's lifetime.



Plugins: Helping or hurting?

Plugins are one of the [standout elements of WordPress](#), supported by a vibrant community of open-source developers dedicated to enhancing the platform with a wide range of flexible, third-party tools.

That said, given the vast array of options, administrators can often find themselves slipping into a “kid in a candy store” mentality. While it’s easy to understand why a user may want to employ as many plugins as possible, this can quickly lead to its own set of problems. Just one bad apple can cause significant lag time.

It’s why performance should always be a primary focus when determining which plugins to incorporate into a build. Always run tests against your benchmarks when adding new plugins, and consider whether any existing plugins may be dragging the client’s site speed down to suboptimal or unacceptable levels.

Of course, none of this is to say you should avoid plugins entirely—far from it. Many of them are capable of delivering significant improvements to both your site performance and user experience. [Query Monitor](#)—an

essential tool that analyzes each plugin’s individual impact on loading times—should be a cornerstone of every build.

At the same time, stay alert for any creeping negative impacts from the plugins you already use, and act accordingly when making new changes in the future.

If plugins are dragging down site performance that your client *simply can’t live without*, all hope is not lost. Contact your hosting provider to discuss increasing server memory or other WordPress optimization packages they may have available.



Monitor your cache settings

Both server- and client-side caching can drastically improve your site's load times, so make sure you're taking full advantage of their capabilities.

Since both methods provide a speedy edge to your site, it's crucial to keep an eye out for any plugins or third-party themes that may alter your server's default cache settings. It's not always obvious when a plugin or theme disables caching, so connect with your hosting team to determine which caching options will work best for your clients' sites.

If you use a managed hosting provider, consider asking what kinds of cache optimizations they may have available. For example, [WP Engine](#) provides all customers with proprietary frontend caching [via EverCache](#), as well as the ability to create custom page variations within a page cache, allowing users to see unique content dynamically.

Finally, in an eCommerce context, caching can entail an artful balance between offering a dynamic experience for your shoppers, while retaining the performance benefits that caching

can provide. Assets like product descriptions or price—which are less likely to change—can be cached for speedy load times. Other security-sensitive or personalized assets—the checkout page, product recommendations—will then load from the server (EverCache is perfect for addressing these kinds of issues).

Client caching:

When the user loads your site for the first time, their browser will download your static assets to their local system. Users will now have these files loaded and ready to go during any subsequent visits, leading to a speedier experience.

Server caching:

Rather than processing a PHP script, querying the database, and assembling your site each time a user logs on, this approach allows the server to instead load and send a pre-assembled copy of your page. This reduces the strain on your system resources, while expediting load times for your users.

Use a Content Delivery Network (CDN)

When ordering a package online, would you prefer they shipped the item from a warehouse 300 miles away—or 3,000?

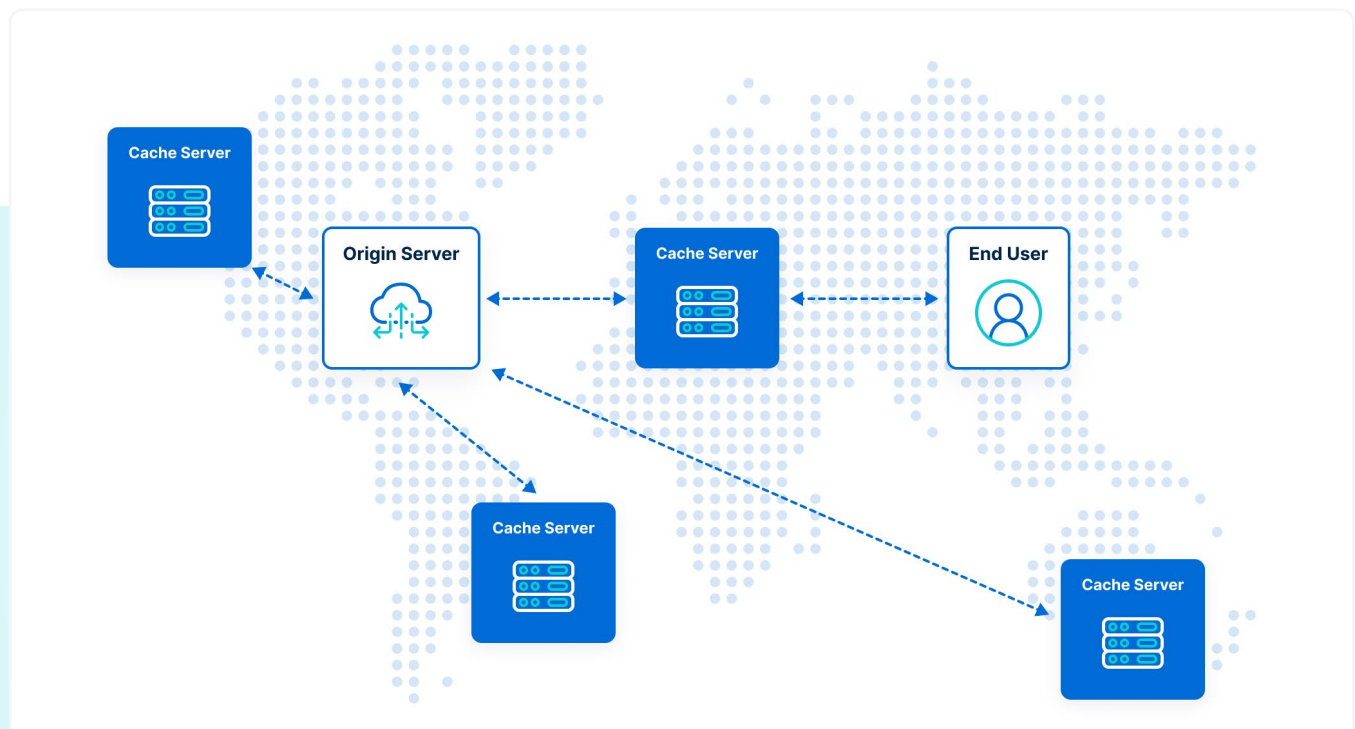
The same question applies to your clients' digital properties and their global audience. A [content delivery network](#) (CDN) is a network that automatically delivers a site's assets from different locations, based on the user's location.

For example, a CDN could connect a visitor from Barcelona to a datacenter in London or Paris, instead of in San Francisco, where your client is headquartered. At the same time, it could serve the same relevant content to a user in Ohio from a datacenter closer to the American heartland—one in Chicago for instance.

Ideally, all of this happens seamlessly and in the background and all a client's customers notice is how fast the website is.

Some of the most popular CDNs include Amazon Web Services, CloudFlare, and MaxCDN, with most offering free versions of their services.

At WP Engine, [we offer CDN services](#) bundled with all of our plans, including tools like [Page Speed Boost](#), which can significantly leverage the power of your content distribution network.



Optimize your static assets

Jumbo-sized photos, verbose code, and other clunky assets can sadly turn your website's performance into a sluggish mess. Let's take a look at the best ways to address some common culprits.

Images

While they tend to be the largest files on any page, most browsers will load images asynchronously with the rest of your assets. While that can help with the perceived performance of your website, it's still important to ensure they are optimally compressed and minimally used. Additionally, transitioning from legacy image formats like JPEG and PNG to next-gen formats such as WEBP and AVIF can significantly improve your page load times (and even image quality).

While external tools to do this are available, installing a program directly into your CMS can help your team avoid common headaches, while keeping this critical process as automated as possible.

WP Engine's [Page Speed Boost](#) is a great way to not only automate the compression of images, but all three assets mentioned in this section—and also update your image formats to conform with present best practices.

CSS

Don't lose sleep if you're not using the latest and greatest methodology, but do establish standards—and stick to them—when writing or updating your CSS code. In particular, always compress these files before taking them live, including the removal of any unused sectors that may bog down load times.

Establishing a good development workflow when designing sites can make this process easy, especially if you're using a pre-processor like Sass.

We also recommend [PostCSS](#), a JavaScript utility for transforming CSS. Three helpful plugins include `postcss-cssnext`, `postcss-import`, and `postcss-preset-env`—these can help you provide browser support, concatenate files, and minify CSS based on your environment. There is also a `postcss-sass` plugin which will let you use the Sass language.

Don't forget to lint your styles though—[Stylelint](#) is a great tool for monitoring the quality of your CSS, especially when paired with the `stylelint-sass` plugin.

If you feel it's easier to manage these tasks with a task runner, we recommend [Gulp](#), where you can choose `gulp-sass`, `gulp-postcss`, and `gulp-stylelint` plugins, and more.

JavaScript

The ideal: Serve modern, minified [JavaScript](#) that supports the site's necessary level of interactivity, while avoiding the delivery of any excess code that will slow down your users.

To achieve this, think about the order of your JavaScript files. If possible, consider adding critical library and framework JavaScript in the `<head>`, before any files that may depend on

them to run. Non-critical scripts, on the other hand, can be placed at the end of the `<body>`, or tagged with `"async"` or `"defer"` attributes.

Google Chrome's [Lighthouse](#) can also act as a guide for monitoring the performance of your JavaScript, identifying issues like calling too many files, ineffective files, or dragging your rendering speed.

Bear in mind: Third-party WordPress plugins can also bloat your document with unminified blocking JavaScript files, so regularly evaluate plugins and use Lighthouse to find any files that are hurting your performance.



Keep it simple: Writing effective theme logic

IF you keep your theme logic simple and “to the point,” THEN you should see a significant increase in your backend performance.

Excessive logic loops (if, else, etc.) can consume a great deal of memory, and will slow your pages to an unsatisfying crawl. One tool we've found useful for minimizing these effects is the [Transients API](#). WordPress transients store temporarily cached data, which means your logic only has to run once (i.e. upon a first visit) with the results then stored in your database for future use.

Select the best host for the job

Finally: Does your hosting package align with your clients' need for speed?

While commodity hosting plans may seem like an upfront bargain, the approach can often lead to hidden drawbacks: namely, the risk of either slow, irregular performance with increased periods of downtime or spending too much time managing the server or hosting account to avoid these issues. Not to mention all of the associated opportunity costs along the way.

By opting instead for a managed WordPress hosting platform like WP Engine, users get top performance for even the highest trafficked websites.

Servers custom-tailored for WordPress include features like:

- ✓ Robust caching,
- ✓ Content delivery networks,
- ✓ One-click staging,
- ✓ Free automated migrations,
- ✓ Expert customer support
- ✓ And other built-in features laser-focused on optimizing your build's performance

In fact, managed WordPress hosting can significantly enhance your speed and reliability, [by as much as 50%](#).

Agencies juggling dozens of client sites, know how important it is to get this right every time.

And getting it right at scale? Not always easy.

That's why partnering with a managed hosting platform like WP Engine can help significantly improve client site performance and empower your team to focus on **delighting your clients**.

We offer [extensive benefits to our agency partners](#), including a dedicated partner success manager for members in need of more specific assistance or solutions. If you're trying to improve your clients' web experience while streamlining your backend workload, we're here to help.

Interested in learning more?
Chat directly with a dedicated agency specialist to get started.

[Chat with us](#)



*WP Engine provides the most
relied-upon and trusted WordPress
products for businesses, brands,
and agencies of all sizes.*

We are on a mission to power the freedom to create, by providing the premium solutions, services, support, and tools to grow someone's online marketing, media, or merchant presence using WordPress. This includes specialized solutions for managed WordPress hosting, eCommerce, enterprise WordPress, headless WordPress, and developer-centric tools.

With a focus on delivering exceptional performance, innovation, and expertise, WP Engine empowers customers to create, manage, and optimize their WordPress websites with confidence. Where no tool alone will suffice, we give our customers enterprise-grade, down-to-earth guidance with a human connection, unlike any other technology company in the industry.

wpengine.com