Improving the speed and performance of your WordPress site



Housekeeping

- All the attendee mics are muted you can hear us but we cannot hear you
- This session is being recorded we will send you a link to the recording and a downloadable copy of the slides after the event
- If you have any questions please use the Q&A function to ask them - we'll cover the questions at the end if we have time otherwise we will follow up with you individually



Who we are

Agenda

- Introduction to Awesome Tech Training
- Why is speed important
- Why is WordPress sometimes slow?
- How to measure speed
- What can be done to make things quicker?
 - Caching
 - Images
 - Hosting
- Things that can trip you up
- Next Steps





If anything isn't clear...

Please ask a question!

 There is no such thing as a stupid question





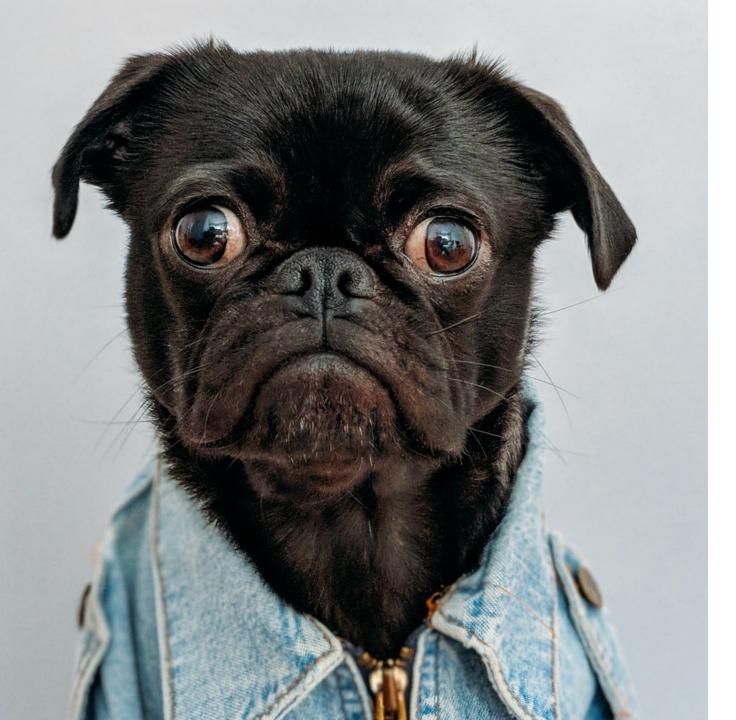
About us

- We're a small business based in Ireland and the UK
- We each worked in sales, marketing and IT for many years before forming Awesome Tech Training
- Our focus is on using our own experience to help small businesses take control of their own web presence
- Digital marketing / WordPress advice and support
 - Book sessions by the hour <u>contact us</u> to talk about how we can help you
- Other webinars
- Discounted sessions and special offers for webinar attendees - details at the end of the webinar



Why is speed important?

These users found what they wanted quickly That makes both them and Google happy



Slow results after clicking a search result or an advert makes users sad \circledast

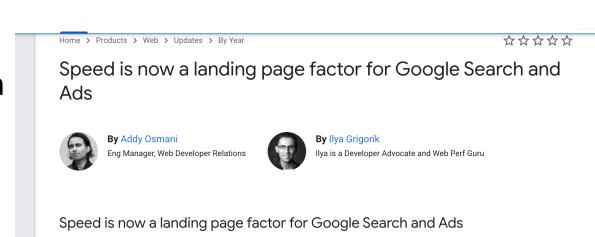
And sad users make Google sad

So Google will PUNISH you



Why is speed important?

- Since July 2018 speed has been a ranking factor both for search and for deciding what ads to show
- Google will penalise your site (and your business) if your site is slow. It will show other, faster sites before yours
- In a nutshell if you want your site to be found on Google then it needs to run quickly



When **real** users have a slow experience on mobile, they're much less likely to find what they are looking for or purchase from you in the future. For many sites this equates to a huge missed opportunity, especially when more than half of visits are abandoned if a mobile page takes over 3 seconds to load.

Last week, Google Search and Ads teams announced two new speed initiatives to help improve user-experience on the web. Both efforts recommend that site owners and developers pay attention to <u>user-centric performance metrics</u> and use tools such as <u>Lighthouse</u> and <u>PageSpeed Insights</u>, and real-world field data (e.g. see <u>Chrome User Experience</u> Report) to diagnose and improve user experiences.

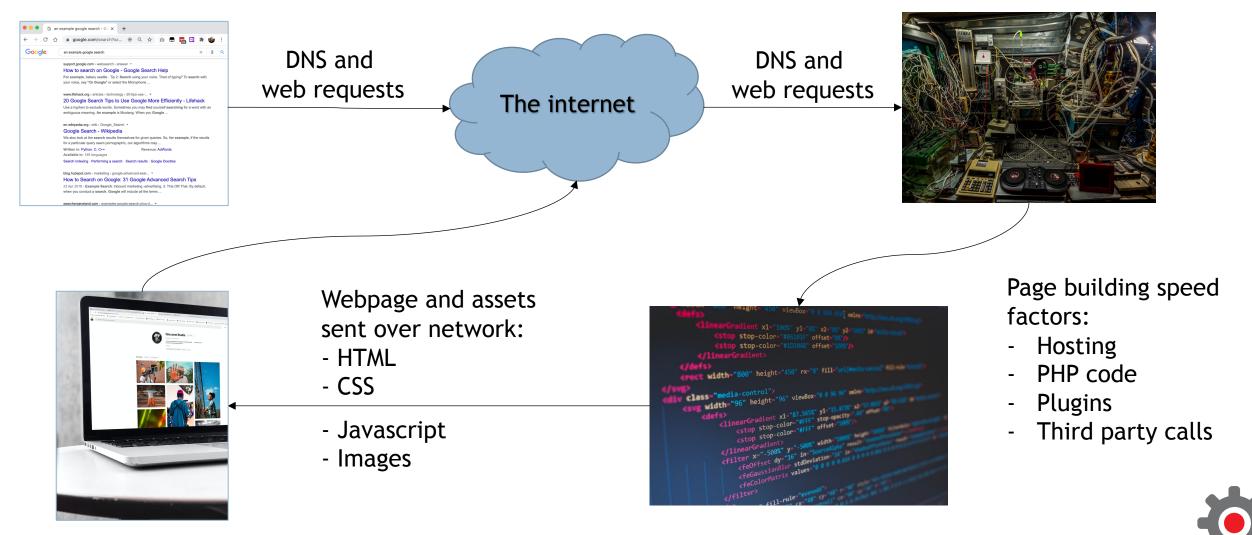
Speed is now used as a ranking factor for mobile searches

Users want to find answers to their questions quickly and data shows that people really care about how quickly their pages load. The Search team announced speed would be a ranking signal for desktop searches in 2010 and as of this month (July 2018), page speed will be a ranking factor for mobile searches too.





Steps to create a page



Where are the bottlenecks?

- When we're improving page speed, we have to consider what can slow it down. There are four main areas:
 - Sending the queries (the DNS)
 - Building the page
 - Sending the page elements back to the browser
 - Rendering the page in the browser, running JavaScript and handling any other network activity



Hello world, TTFB comparison

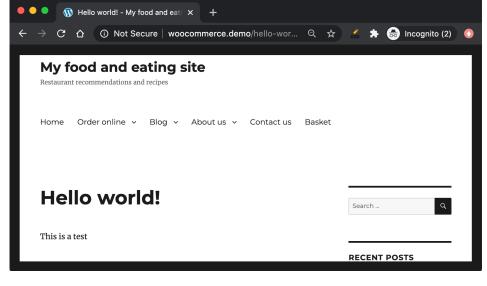
Astra theme

TTFB approx 0.15

seconds

 Image: Second Secure Secure Second Secure Second Secure Second Secure Secur

Twenty Sixteen theme



TTFB approx 0.10 seconds Less work, 33% faster

TTFB = Time to first byte, gives us a feel for how much work the server has to do to build the page

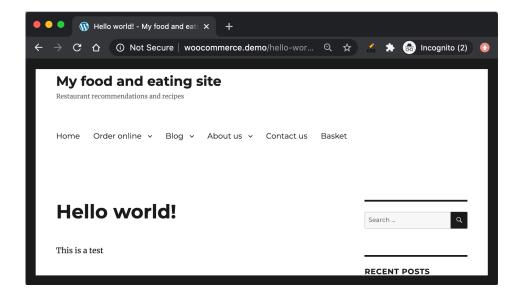


Hello world, browser comparison

Latest Astra theme

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Your logo here	Home Order online -> Blog -> About us -> Contact us Basket
Hello world!	
This is a test	
Copyright © 2	020 My food and eating site Powered by Astra WordPress Theme Terms and conditions Privacy Policy

Twenty Sixteen theme



24 resources. Load time approx 0.35 seconds 29 resources. Load time approx 0.43 seconds

Astra is FASTER - turns out Twenty Sixteen was downloading a font from google which slowed it down, and Astra used fewer resources to make the page.



How to measure page speed

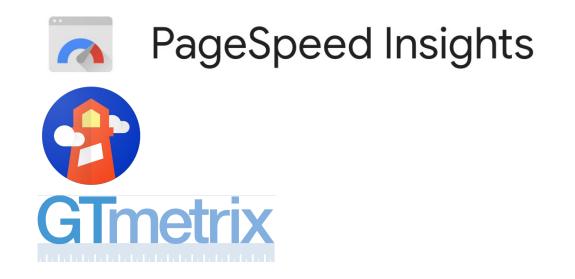
What are we measuring and what tools are there?

- Our testing of Time To First Byte (TTFB) and browser loading give us a rough idea how fast our site is
- It doesn't tell us what we can do to make things quicker
- There are tools on the web which will report on page speed and how it can be improved
- Popular browsers like Chrome, Firefox and Edge include developer tools which give us even more information



What are we measuring and what tools are there?

- Google Page Speed Insights
- Chrome Lighthouse
- GTMetrix
- There are other tools, Y-slow (which is listed in GTMetrix, old yahoo tool)





Web tools – Google PageSpeed Insights

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	https://www.awesometechtraining.com/	
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	Discover what your real users are experiencing O The URL Origin	
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	Reduce initial server response time	0.78s ~
	created 1902 - Properly size images	0.39s ~
	Reduce unused CSS	0.36s ~
	Serve images in next-gen formats	0.35s ~

https://pagespeed.web.dev/

- Reports run on the Google servers
- Uses the "lighthouse" speed measuring algorithm
- Includes specific recommendations for WordPress
- Mobile results often slower than desktop



Web tools – GT Metrix

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erformance Scores				Page	Details			
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A (92%) ^		C (79%	5) *	2.	5s^	477	′KB ^	50 ^
PageSpeed YSIc	W	Waterfall	Timings	Video	History			
RECOMMENDATION			GR	ADE	TYPE	PRIORITY		
 Minimize redirects 			D	(60)	CONTENT	HIGH	What do	my scores mean?
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 Enable compression 			A	(97)	SERVER	HIGH		ommendation will apply
 Minify JavaScript 			A	(97)	JS	HIGH	to your page	indations are meant to be
 Optimize images 			A	(98)	IMAGES	HIGH	generic, best p	ractices; some things will control (eg. external
 Minify CSS 			A	(99) 🔶	CSS	HIGH		nay not apply to your page.
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 Avoid landing page redire 	ects		A	(100) 🔶	SERVER	HIGH		,
				(100)	SERVER	HIGH		
Enable Keep-Alive			A	(100)	GERVER			
 Enable Keep-Alive Inline small CSS 				(100)	CSS	HIGH	Need opt	imization help?

- <u>https://gtmetrix.com/</u>
- Independent (of Google) page speed analysis
- Reports tend to run in Vancouver, Canada
- Servers can be busy and reports can take a long time to generate
- Reports feel more technical
- PageSpeed and Y-Slow reports
- Recognises WordPress, but only general advice
- Need to create an account



Chrome developer tools

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- More technical tools can be found in the menu under More Tools -> Developer Tools
- If you use these tools, we recommend using "incognito mode" so that you get more reliable results
- Incognito mode turns off extensions and doesn't use your normal cookies, so you visit your site as if it were for the first time



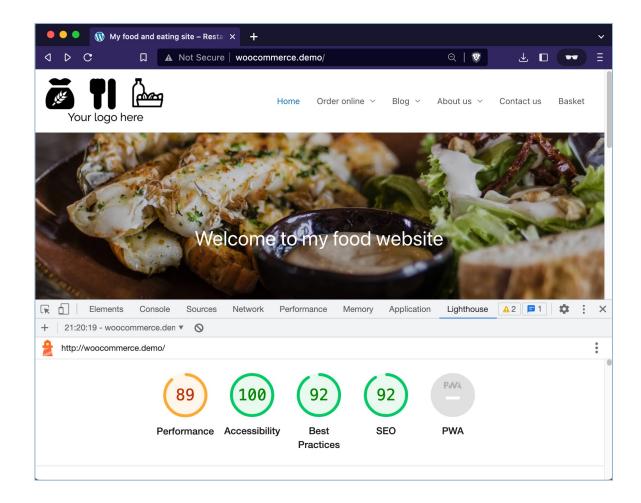
Chrome developer tools

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hello-world/	200	document	Other	51.2 kB	244		
style.min.css?ver=2.4.5	200	stylesheet	(index)	88.4 kB	102		
menu-animation.min.css?ver=2.4.5	200	stylesheet	(index)	3.7 kB	94 ms		
style.min.css?ver=5.5	200	stylesheet	(index)	54.2 kB	97 ms		
vendors-style.css?ver=2.7.1	200	stylesheet	(index)	3.3 kB	92 ms		
style.css?ver=2.7.1	200	stylesheet	(index)	147 kB	88 ms		
coblocks-style.css?ver=e68523d5e124f16ea298e56c7f	200	stylesheet	(index)	154 kB	84 ms		
styles.css?ver=5.2	200	stylesheet	(index)	2.2 kB	78 ms		
contact-form-7.min.css?ver=2.4.5	200	stylesheet	(index)	1.2 kB	163		
woocommerce-layout.min.css?ver=2.4.5	200	stylesheet	(index)	17.7 kB	168		
woocommerce.min.css?ver=2.4.5	200	stylesheet	(index)	105 kB	164		
jquery.js?ver=1.12.4-wp	200	script	(index)	97.2 kB	159		
style.min.js?ver=2.4.5	200	script	(index)	10.7 kB	152		
scripts.js?ver=5.2	200	script	(index)	14.4 kB	147		
jquery.blockUI.min.js?ver=2.70	200	script	(index)	9.9 kB	150		
add-to-cart.min.js?ver=4.3.0	200	script	(index)	3.4 kB	160		
js.cookie.min.js?ver=2.1.4	200	script	(index)	2.2 kB	156		
woocommerce.min.js?ver=4.3.0	200	script	(index)		153		
cart-fragments.min.js?ver=4.3.0	200	script	(index)	3.3 kB	149		
wp-embed.min.js?ver=5.5	200	script	(index)		146		
wp-emoji-release.min.js?ver=5.5	200	script	(index):31		18 ms		
woocommerce-smallscreen.min.css?ver=2.4.5	200	stylesheet	(index)		14 ms		
astra.woff	200	font	(index)		15 ms		
n food-site-logo-300x117.png	200	png	(index)	8.8 KB	12 ms		
24 requests 806 kB transferred 798 kB resources Fi	nish: 557 ms	DOMContent	Loaded: 570 m	s Load: 581	ms		

- This is a view of the network tab with a "waterfall" view of the resources loading
- We can see TTFB for the HTML page, and how long all other resources take
- In this case, our biggest single improvement would come from speeding up the first page load
- We also make sure that "disable cache" is checked so that everything is loaded from the server



Lighthouse



- Lighthouse provides a more humanfriendly report about page speed and other aspects of your site
- Not just the individual resource speeds
- Reports and recommendations for:
 - Performance
 - Accessibility
 - Best practice
 - SEO



How to improve speed

How to improve speed

- There are lots of things that you can change to improve speed
- Try one thing, check the results and then move on if it has worked, or back out if it hasn't
- Focus on big, easy wins
- Use all the measurement tools to see where improvements can be made
- However you will probably get your biggest improvements in four ways:
 - Caching there are plugins to help this in WordPress
 - Make things smaller compress and resize images, compress text
 - Lazy loading use a plugin or the new WordPress 5.5
 - Upgrading / improving your hosting



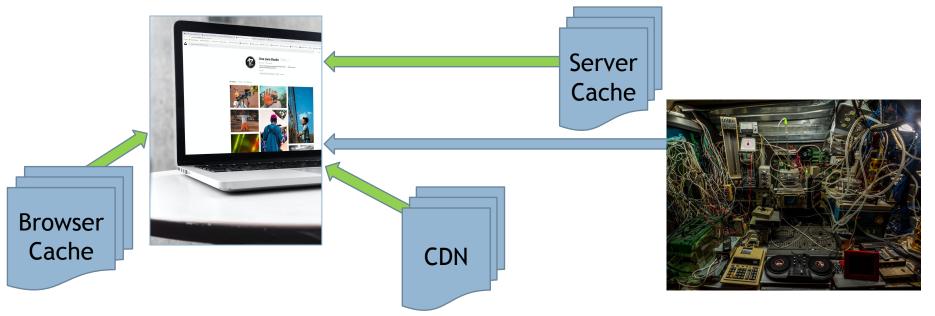
What is caching?

- Caching is simply keeping a copy of something so that we don't have to do a lot of work each time we request it.
- Imagine 100 visitors hitting your homepage. Every person who hits that page should see the same thing.
- Better to have a copy of that page which can be accessed quickly rather than building the page from scratch each time.



Where can we store copies?

- There are three main places copies of resources can be stored
 - On your hosting server
 - As part of a Content Delivery Network
 - In your browser





Using a caching plugin

There are many caching plugins for WordPress

- The top three are:
 - WP Rocket (\$59 per year)
 - W3 Total Cache (free easy)
 - WP Super Cache (free more complex)
- We used to use WP Rocket on our site, we now use something a bit more hand-crafted
- We'll look at W3 Total Cache today



Using a caching plugin

- Caching plugins like W3 Total Cache will refresh the static HTML file when the page or post is updated
- Archives and homepage changes will be refreshed when a page / post is saved as well



My food and eating site 🛡 0 🕂 N	ew 📢 2 🤿 Performance 🕕 UpdraftPlus		
Dashboard			
Posts	TOTAL CACHE: Setup G	uide	
Media	Welcome to the W3 Total Cache Setup G		
Pages	You have selected the Performance Suite that profes		
Comments Page Cache	options and speed improvements.		
Contact 1 Database Cache	W3 Total Cache provides many options to help your		
Object Cache	settings vary for every website, there are a few setting		
WooCommerce Browser Cache	If you prefer to configure the settings on your own, you	ou can <u>skip this setup guide</u> .	
Products Lazy Load			
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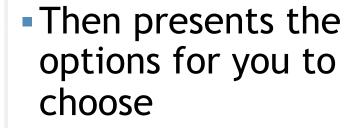
- The setup guide is shown when you first install and activate the plugin
- It makes it very easy to configure the most basic elements of the cache
- https://wordpress.org/ plugins/w3-totalcache/



Posts	(W3)	TOTAL	CACHE: Setup	Guide	
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Comments	Page Cache		erred to as <i>Time to First Byte</i> .	· · · · · · · · · · · · · · · · · · ·	
Contact 1	Database Cache	W3 Total Cach	e can help you speed up <i>Time to F</i>	irst Byte by using Page Cache.	
	Object Cache			ed and then with several storage engines. You	
WooCommerce	Browser Cache	should review t	he test results and choose the bes	st for your website.	
Products	Lazy Load	Test Page Ca	che		
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Marketing		0	None	278.21	
🕽 Astra		0	Disk: Basic	5.43 -98.05%	
Appearance			Disk: Enhanced (Recommended)	2.61 -99.06%	
Plugins		0	Redis	4.10 -98.53%	
Users			Memcached	Unavailable	1.0
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			XCache	Unavailable	
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Performance					
Dashboard					

• The plugin will test various aspects of the caching.

 By timing each available option, it finds the fastest





NEXT

 \bigstar My food and eating site \blacksquare 0 + New Dashboard 🖈 Posts **9** Media Pages Welcome Comments Page Cache 🗸 Contact 1 Database Cach **Object** Cache WooCommerce Browser Cache Products Lazy Load Analytics More Caching O Marketing 🚺 Astra

🔊 Performance 🌗

PREVIOUS

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Settings

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Feature Showcase 🚺

General Settings

	TOTAL	CACHE: Setup	Guide							
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UpdraftPlus

By default, this feature is disabled. We recommend using Redis or Memcached, otherwise leave this feature disabled as the server database engine may be faster than using disk caching.

The plugin uses the following caches:

Page

- Database
- Object
- Browser
- Some caches work better on disk and others in memory
- You don't have to be an expert



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9 Media		Lazy Load	
Pages	Welcome	Pages containing images and other objects can have their load time reduc	ced by deferring them
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Products	Browser Cache 🗸		
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General Settings		PREVIOUS	NEXT

- The plugin can configure lazy loading
- Useful if you find that the default WordPress lazy loading isn't working for you
- Lighthouse or Google Page Speed Insights will tell you if you need to enable this



W3 Total Cache – CDN

	🖀 My food and eat	ing site 📀 4 🛡 0 🕂 New 📢 2 Purge Ca	ache 🛭 🦣 Performance 3	UpdraftPlus	Al Assistant	Hi, admin 📃
e	Dashboard	TOTAL CACHE		Dashboard Settings 🗸	Tools 🗸 Info 🗸 Support	Upgrade
4	Astra	Action Scheduler: 6 past-due actions found; somet	thing may be wrong. Read doc	umentation »		Help 🔻
*	Posts	Action Scheduler. 0 past-due actions found, some	uning may be wrong. <u>Read doc</u>			
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Woo	WooCommerce	License: Free	Preview Mode disabled		Minify	enabled
	Products	Status: Free license, no expiration	Opcode Cache enabled		sabled Object Cache Reverse Proxy	disabled
al	Analytics	Upgrade to W3 Total Cache Pro now to unlock	Statistics disabled			disabled
P	Marketing	additional settings and features that can further				
•	Appearance	improve your site's performance and Google	S	ettings can be modified by visiti	ng General Settings	
	Plugins	PageSpeed ratings.				
	Users	Learn more about Pro				
	Tools					
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	StackCache	Our Partner Hosts have supplied rich tutorials that can help you run faster on			not have a CDN configured	you do
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~		InMotion Hosting		Enł	nance your website performance b	y adding

 W3 Total Cache can work with a third party content delivery network (CDN)

 Services such as Bunny.net can help speed up some files by serving them from faster servers, closer to your visitors (\$\$)

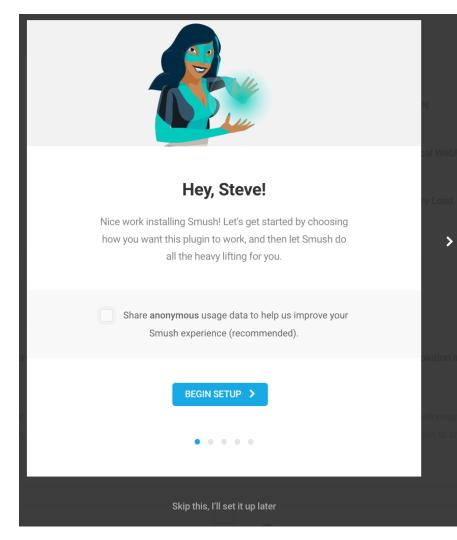


Compressing images

- Image sizes don't need to be massive even on big screens
- Temptation for crystal clear large images will make your pages very slow
- Use plugins like Smush to resize, compress and convert your images
- Resize use the right size of image for the browser size
- Compress and convert use a highly compressed image format (webp instead of png or jpg)
- These can be handled automatically



Smush plugin



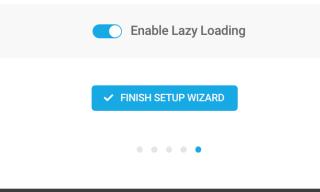
- A plugin like Smush will resize and compress your images
- Pro version converts to webp
- Processing happens when images uploaded - doesn't slow down page loading
- <u>https://wordpress.org/plugins/</u> <u>wp-smushit/</u>



Smush plugin

Lazy Load

This feature stops offscreen images from loading until a visitor scrolls to them. Make your page load faster, use less bandwidth and fix the "defer offscreen images" recommendation from a Google PageSpeed test.



- Smush also has a lazy load option, like W3 Total Cache
- When you have multiple plugins offering the same functionality, make sure that you only activate it on one.
- Otherwise, you might have problems with your images they might not load



WebP Express

Bulk Convert						
Converting 2021/03/0T01235c.jpg-150x150.png ok	87%					
Converting 2021/03/AL00001AL00002a-1.png ok	92%					
Converting 2021/03/HA00348-300x300.jpg ok	50%					
Converting 2021/03/CC00429-1-300x300.png ok	88%					
Converting 2021/03/HA00649.jpg ok	86%					
Converting 2021/03/EL00181-3-300x300.jpg ok	87%					
Converting 2021/03/AL00033a-300x300.png ok	40%					
Converting 2021/03/0T00556-300x300.jpg ok	84%					
Converting 2021/03/HA00764A-100x100.jpg ok	46%					
Converting 2021/03/EL00019a-300x300.png ok	50%					
Converting 2021/03/EL00121a-100x100.png ok	95%					
Converting 2021/03/0T01142-100x100.png ok	89%					
Converting 2021/03/0T01118.png ok	83%					
Converting 2021/03/HA00684-100x100.jpg ok	60%					
Converting 2021/03/HA00646-300x300.jpg ok	90%					
Converting 2021/03/0T00219a-100x100.jpg ok	60%					
Converting 2021/03/OT00981a-300x300.png ok	30%					
Converting 2021/03/HA00764A-768x616.jpg ok	88%					
Converting 2021/03/EL00126a-100x100.jpg ok	45%					
Converting 2021/03/AL00001AL00002a-1-100x100.png ok	79%					
Converting 2021/03/EL00189.png ok	55%					
Converting 2021/03/0T00814a-100x100.jpg ok	44%					

- A simpler alternative that might work for you is WebP Express
- <u>https://wordpress.org/plugins/sea</u> <u>rch/WebP+Express/</u>
- This converts images to WebP if your hosting has the software to do it
- Images are compressed and served in "NextGen" format
- Best to choose one image plugin eg. Smush vs WebP Express



WP Optimize

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Optimisations

- A number of optimizing tools
- Handy if you like everything in one place
- Includes database optimization
- Good set of tools in the free version
- From the updraft plus team



Hosting

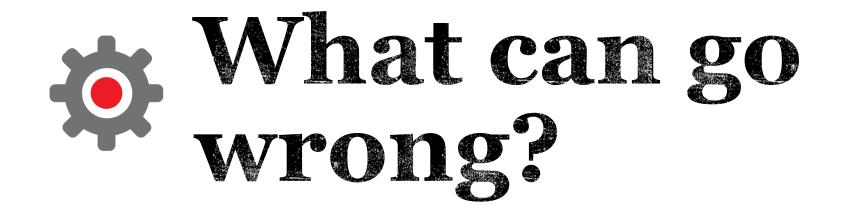
- Your hosting package dictates how fast WordPress can create the page
- Cheap hosting can be very slow because many websites are on one server
- Caching, CDNs and compression can only help with static pages
- Dynamic pages such as the dashboard or e-commerce pages have to be created on the server for every request - on a slow server this will result in slow pages



Hosting – what to look for

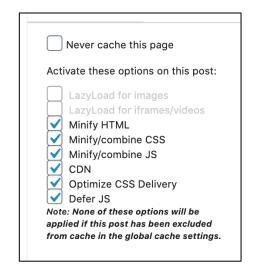
- Dedicated servers will give you the best performance
- Make sure they have SSD storage and as much memory as you can afford
- For the less technical, look for managed WordPress hosting
- Consider providers who will help with WordPress performance
- Also some hosting packages will provide development and staging areas and tools

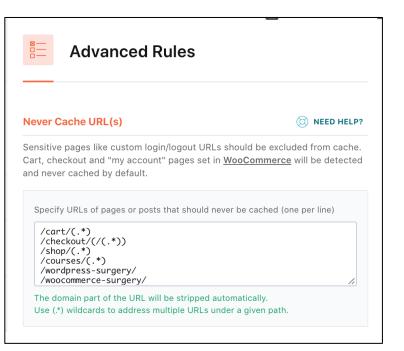




What could possibly go wrong?

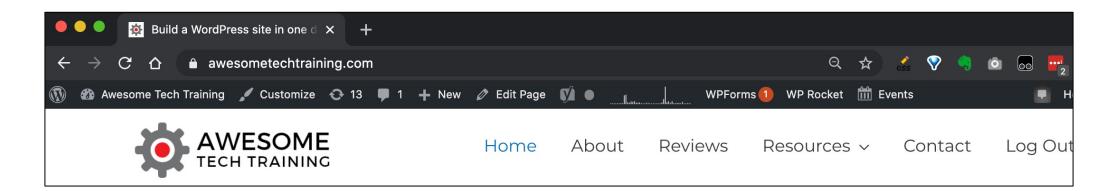
- Your biggest gains and most of your problems will come from caching
- Plugins such as WooCommerce or other dynamic pages may not work when cached
- You don't want users to see someone else's order
- Use exclusion rules or per-page rules





What could possibly go wrong?

- Depending on how you cache, you might lose your admin bar
 or worse, you might show it to all visitors
- This happens when the copy is made when you're logged in.
 Your caching plugin will have a setting for "logged in users"





How to avoid pitfalls

- Take a backup
- If your hosting includes a staging site then use that
- Test your site after each modification.
- Work through your plugins and make sure that everything works as expected
- Check your site when logged in and in incognito mode



Remember – speed isn't everything, but it helps

- The functionality of your site might be more important than shaving a few milliseconds off a page
- You don't have to get a score of 100% to rank with Google.
 It helps but is one of a number of things to look at
- Plugin and theme updates will affect the site speed
- Keep an eye on it and review regularly



How we can help

- WordPress training options
 - Free WordPress resources
 - One-to-one tailored WordPress training for you / your team
 - <u>Getting started with WordPress</u> free webinar 20 December / also available on demand
 - Half hour free 'surgery' session to discuss your business
 - Ongoing help with WordPress maintenance / support / site development
- Free resources
 - Written checklist
 - SEO guide
 - <u>Video library</u>
- Other webinars
- 20% off other webinars for webinar attendees quote code webinar20 at checkout



Other training and consulting

- Help configuring your Google Analytics account <u>contact us for more info</u>
- Digital marketing audit <u>contact us for more info</u>
- Website development <u>contact us for more info</u>
- Website health-check or full technical review <u>contact us for more info</u>
- Ongoing marketing support, advice and technical resource <u>contact us for more info</u>



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