

The web should be fast.

Executive Summary



Performance Report for:

http://kings.gg/

Report generated: Thu, Jan 17, 2019, 3:20 AM -0800 Test Server Region: M Vancouver, Canada Using: O Chrome (Desktop) 62.0.3202.94, PageSpeed 1.15gt1, YSlow 3.1.8

PageSpeed Score	YSlow Score	Fully Loaded T 3.8s ^		047KB		equests
Top 5 Priority Issue	es					
Defer parsing of JavaScript		C (75)	AVG \$	SCORE: 71%	JS	HIGH
Optimize images		B (85)	AVG S	SCORE: 70%	IMAGES	HIGH
Leverage browser caching		A (96)	AVG S	SCORE: 61%	SERVER	HIGH
Specify image dimensions		A (99)	AVGS	SCORE: 98%	IMAGES	MEDIUM
Minify HTML		A (99)	AVG S	SCORE: 98%	CONTENT	LOW

How does this affect me?

Studies show that users leave a site if it hasn't loaded in 4 seconds; keep your users happy and engaged by providing a fast performing website.

As if you didn't need more incentive, **Google has announced that they** are using page speed in their ranking algorithm.

About GTmetrix

We can help you develop a faster, more efficient, and all-around improved website experience for your users. We use Google PageSpeed and Yahoo! YSlow to grade your site's performance and provide actionable recommendations to fix these issues.

About the Developer



GTmetrix is developed by the good folks at **GT.net**, a Vancouver-based performance hosting company with over 23 years experience in web technology.

https://gt.net/

What do these grades mean?

This report is an analysis of your site with Google and Yahoo!'s metrics for how to best develop a site for optimized speed. The **grades you see represent** how well the scanned URL adheres to those rules.

Lower grades (C or lower) mean that the page can stand to be faster using better practices and optimizing your settings.

What's in this report?

This report covers basic to technical analyses on your page. It is categorized under many headings:

- Executive: Overall score information and Priority Issues
- History: Graphed history of past performance
- Waterfall: Graph of your site's loading timeline
- Technical: In-depth PageSpeed & YSlow information

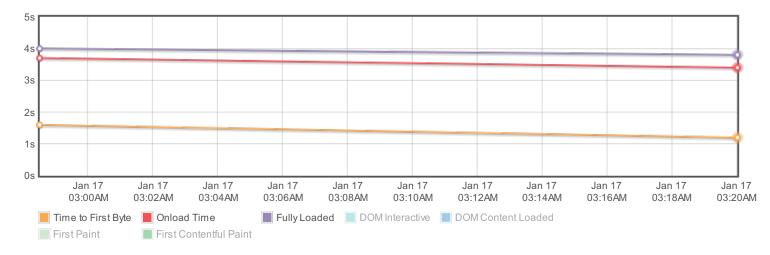
These will provide you with a snapshot of your performance.



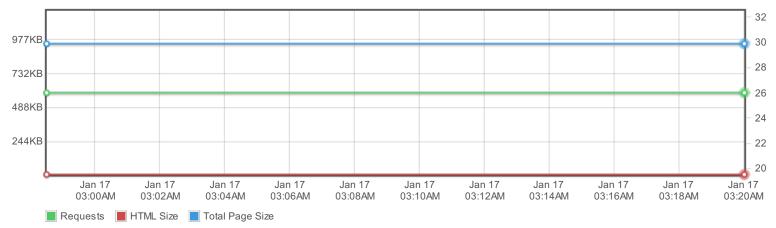
History

History

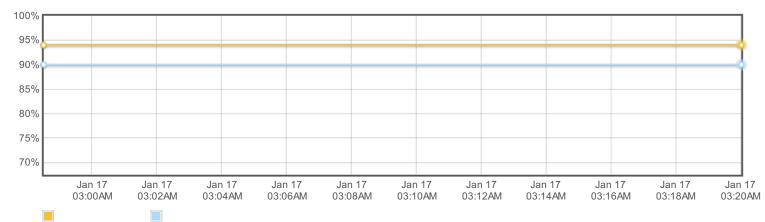
Page load times



Page sizes and request counts



PageSpeed and YSlow scores

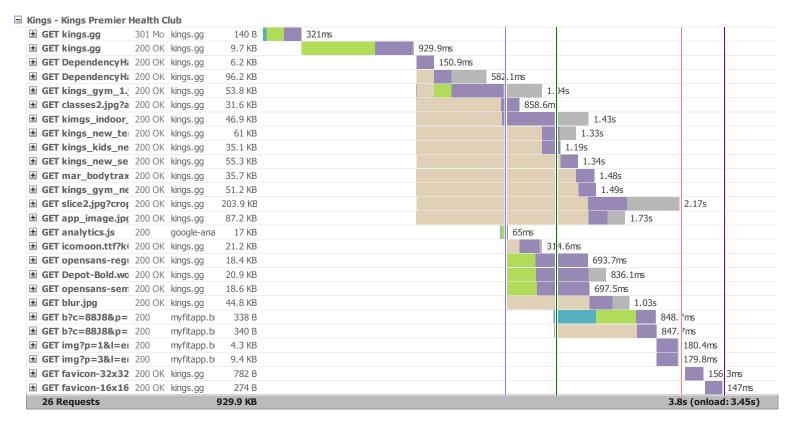






Waterfall Chart

The waterfall chart displays the loading behaviour of your site in your selected browser. It can be used to discover simple issues such as 404's or more complex issues such as external resources blocking page rendering.





Page Load Timings

RUM Speed Index: 2,414

Redirect	Connect	Backend	TTFB
322ms	0.6s	312ms	1.2s
DOM int.	DOM loaded	First paint	Contentful paint
2.0s	2.0s (1ms)	2.4s	2.4s
Onload 3.4s (6ms)			

Redirect duration

terfall Chart ?			Redirec	t Duration
GET youtube.com	301 Move	youtube.com	0	638ms
GET www.youtube.com	301 Move	youtube.com	0	635ms
GET www First 200 OK	200 OK	youtube.com	52.6 KB	2.0
GET scheduler.js	200 OK	youtube.com	2 KB	222ms
GET www-pageframe-vfl7RQ	200 OK	youtube.com	8.7 KB	833m
GET www-guide-vfl2WSEld.c	200 OK	youtube.com	3 KB	857m
GET www-core-vflkD-QiW.cs	200 OK	youtube.com	43.8 KB	599ms
GET www-home-c4-vfIIV na		voutube.com	25 KB	782ms

This is the time spent redirecting URLs before the final HTML page is loaded. Common redirects include:

- Redirect from a non-www to www (eg. example.com to www.example.com)
- Redirect to a secure URL (eg. http:// to https://)
- Redirect to set cookies
- Redirect to a mobile version of the site

URL). This timing is the total of all this time that's spent redirecting, or 0 if no redirects occurred.

In the Waterfall Chart, Redirect duration consists of the time from the beginning of the test until just before we start the request of the final HTML page (when we receive the first 200 OK response).

During this time, the browser screen is blank! Ensure that this duration is kept to short by minimizing your redirects.

Connection duration

hart ?			Connect Duration	
te	\frown		×	
ample.com 🤇	200 OK	example.com	9.7 KB	477ms
mize_c72e561d5	200 OK	example.com	80.4 KB	
ily=PT+Sans Fir	st 200 O	nts.googleap	871 B	119ms
ily=Open+Sans:	200	fonts.googleap	1.1 KB	118ms
ily=Crete+Roun		fonts.googleap	442 B	139ms
ily=Raleway:400		fonts.googleap	1.1 KB	116ms
ample.com	200 OK	example.com	259 B	
s?ver=1.12.4		example.com	33 KB	

Once any redirects have completed, Connection duration is measured. This is the time spent connecting to the server to make the request to the page.

Technically speaking, this duration is a combination of the blocked time, DNS time, connect time and sending time of the request (rather than *just* connect time). We've combined those components into a single Connection duration to simplify things (as most of these times are usually small).

In the Waterfall Chart, Connection duration consists of everything up to and including the "Sending" time in the final HTML page request (the first 200 OK response).

During this time, the browser screen is still blank! Various causes could contribute to this, including a slow/problematic connection between the test server and site or slow response times from the site.

Backend duration

Once the connection is complete and the request is made, the server needs to generate a response for the page. The time it takes to generate the response is known as the Backend duration.

, I I di L				Dackeno I	Duration
te	_				
ample.com	200 OK	example.com	9.7 KB		477ms
mize_c72e561d5	200 OK	example.com	80.4 KB		
ily=PT+Sans Fi	st 200 O	nts.googleap	871 B		119ms
ily=Open+Sans:	200	fonts.googleap	1.1 KB		118ms
ily=Crete+Roun		fonts.googleap	442 B		139ms
ily=Raleway:400		fonts.googleap	1.1 KB		116ms
ample.com	200 OK	example.com	259 B		
s?ver=1.12.4	200 OK	example.com	33 KB		

In the Waterfall Chart, Backend duration consists of purple waiting time in the page request.

There are a number of reasons why Backend duration could be slow. We cover this is our "<u>Why is my</u> page slow" article.

Time to First Byte (TTFB)



Page Load Timings

terfall Chart ?				TTFB
ITube				
GET youtube.com	301 Move	youtube.com	0	638ms
GET www.youtube.com	301 Move	youtube.com	0	635ms
GET www First 200 OK	200 OK	youtube.com	52.6 KB	2.0
GET scheduler.js	200 OK	youtube.com	2 KB	222ms
GET www-pageframe-vfI7RQ	200 OK	youtube.com	8.7 KB	833m
GET www-guide-vfl2WSEld.c	200 OK	youtube.com	3 K.B	857m
GET www-core-vflkD-QiW.cs	200 OK	youtube.com	43.8 KB	599ms
GET www-home-c4-vfllV na	200 OK	voutube.com	25 KB	782m

DOM interactive time

			DOM Interactive
e.com	0	638ms	
e.com	0	635ms	
e.com	52.6 KB	2.09s	
e.com	2 KB	222ms	
e.com	8.7 KB	833ms	
e.com	3 KB	857ms	
e.com	43.8 KB	599ms	
e.com	25 KB	782ms	

Time to First Byte (TTFB) is the total amount of time spent to receive the first byte of the response once it has been requested. It is the sum of "Redirect duration" + "Connection duration" + "Backend duration". This metric is one of the key indicators of web performance.

In the Waterfall Chart, it is calculated at the start of the test until just before receiving on the page request and represented by the orange line.

Some ways to improve the TTFB include: optimizing application code, implementing caching, finetuning your web server configuration, or upgrading server hardware.

DOM interactive time is the point at which the browser has finished loading and parsing HTML, and the DOM (Document Object Model) has been built. The DOM is how the browser internally structures the HTML so that it can render it.

DOM interactive time isn't marked in the Waterfall Chart as it's usually very close in timing to DOM content loaded.

DOM content loaded time

				DOM L	.oaded
	0	638ms			
e.com e.com	0	635	ns		
e.com	52.6 KB		2.09s		
.com	2 K.B		222ms		
e.com	8.7 K.B		833ms		
e.com	3 K.B		857ms		
e.com	43.8 KB		599ms		
e.com	25 KB		782ms		

DOM content loaded time (DOM loaded or DOM ready for short) is the point at which the DOM is ready (ie. DOM interactive) and there are no stylesheets blocking JavaScript execution.

If there are no stylesheets blocking JavaScript execution and there is no parser blocking JavaScript, then this will be the same as DOM interactive time.

In the Waterfall Chart, it is represented by the blue line.

event. Many JavaScript frameworks use this event as a starting point to begin execution of their code.

Since this event is often used by JavaScript as the starting point and delays in this event mean delays in rendering, it's important to make sure that style and script order is optimized and that parsing of JavaScript is deferred.

First paint time

		First P	aint
e.com	0	638ms	
e.com	0	635ms	
e.com	52.6 KB	2.09s	
e.com	2 KB	222ms	
e.com	8.7 KB	833ms	
e.com	3 KB	857ms	
e.com	43.8 KB	599ms	
e.com	25 KB	782ms	

First paint time is the first point at which the browser does any sort of rendering on the page. Depending on the structure of the page, this first paint could just be displaying the background colour (including white), or it could be a majority of the page being rendered.

In the Waterfall Chart, it is represented by the green line.

This timing is of significance because until this point, the browser will have only shown a blank page and this change gives the user an indication that the page is loading. However, we don't know how much of the page was rendered with this paint, so having a early first paint doesn't necessarily

indicate a fast loading page.

If the browser does not perform a paint (ie. the html results in an blank page), then the paint timings may be missing.

First contentful paint time

		Conte	ntful Paint	
e.com	0	638ms		
e.com	0	635ms		
e.com	52.6 KB	2.09s		
e.com	2 KB	222ms		
e.com	8.7 KB	833ms		
e.com	3 KB	857ms		
e.com	43.8 KB	599ms		
e.com	25 KB	782ms	1	

First Contentful Paint is triggered when any *content* is painted - i.e. something defined in the DOM (Document Object Model). This could be text, an image or canvas render.

This timing aims to be more representative of your user's experience, as it flags when actual content has been loaded in the page, and not just any change - but it may often be the same time as First Paint.

Because the focus is on content, the idea is that this metric gives you an idea of when your user receives consumable information (text, visuals, etc) - much more useful for performance assessment



than when a background has changed or a style has been applied.

If the browser does not perform a paint (ie. the html results in an blank page), then the paint timings may be missing.

Onload time

			Onload
:om	0	638ms	
.com	0	635ms	
e.com	52.6 KB	2.09s	
com	2 KB	222ms	
com	8.7 KB	833ms	
.com	3 KB	857ms	
com	43.8 KB	599ms	
e.com	25 KB	782ms	

Onload time occurs when the processing of the page is complete and all the resources on the page (images, CSS, etc.) have finished downloading. This is also the same time that DOM complete occurs and the JavaScript window.onload event fires.

Note that there may be JavaScript that initiates subsequent requests for more resources, hence the reason why Fully loaded timing is preferred.

In the Waterfall Chart, it is represented by the red line.

The time in brackets is the time spent executing JavaScript triggered by the Onload event.

Note that Onload time was the previous default for when to stop the test prior to Feburary 8th, 2017.



PageSpeed Recommendations

RECOMMENDATION	GRADE	RELATIVE	TYPE	PRIORITY
Defer parsing of JavaScript	C (75)	♦ AVG SCORE: 71%	JS	HIGH
Optimize images	B (85)	AVG SCORE: 70%	IMAGES	HIGH
Leverage browser caching	A (96)	AVG SCORE: 61%	SERVER	HIGH
Specify image dimensions	A (99)	♦ AVG SCORE: 98%	IMAGES	MEDIUM
Minify HTML	A (99)	♦ AVG SCORE: 98%	CONTENT	LOW
Minify JavaScript	A (99)	AVG SCORE: 89%	JS	HIGH
Minify CSS	A (99)	♦ AVG SCORE: 95%	CSS	HIGH
Remove query strings from static resources	B (87)	♦ AVG SCORE: 87%	CONTENT	LOW
Avoid bad requests	A (100)	♦ AVG SCORE: 98%	CONTENT	HIGH
Avoid landing page redirects	A (100)	♦ AVG SCORE: 98%	SERVER	HIGH
Enable gzip compression	A (100)	AVG SCORE: 86%	SERVER	HIGH
Enable Keep-Alive	A (100)	♦ AVG SCORE: 97%	SERVER	HIGH
Inline small CSS	A (100)	♦ AVG SCORE: 96%	CSS	HIGH
Inline small JavaScript	A (100)	♦ AVG SCORE: 95%	JS	HIGH
Minimize redirects	A (100)	AVG SCORE: 90%	CONTENT	HIGH
Minimize request size	A (100)	♦ AVG SCORE: 97%	CONTENT	HIGH
Optimize the order of styles and scripts	A (100)	♦ AVG SCORE: 95%	CSS/JS	HIGH
Put CSS in the document head	A (100)	♦ AVG SCORE: 100%	CSS	HIGH
Serve resources from a consistent URL	A (100)	AVG SCORE: 89%	CONTENT	HIGH
Serve scaled images	A (100)	AVG SCORE: 73%	IMAGES	HIGH
Specify a cache validator	A (100)	AVG SCORE: 94%	SERVER	HIGH
Combine images using CSS sprites	A (100)	AVG SCORE: 91%	IMAGES	HIGH
Avoid CSS @import	A (100)	♦ AVG SCORE: 98%	CSS	MEDIUM
Prefer asynchronous resources	A (100)	♦ AVG SCORE: 100%	JS	MEDIUM
Specify a character set early	A (100)	♦ AVG SCORE: 100%	CONTENT	MEDIUM
Avoid a character set in the meta tag	A (100)	♦ AVG SCORE: 100%	CONTENT	LOW
Specify a Vary: Accept-Encoding header	A (100)	♦ AVG SCORE: 96%	SERVER	LOW



YSlow Recommendations

YSlow Recommendations

LUse a Content Delivery Network (CDN)F(0)A VG SCORE 23%SERVERMEDUMAdd Expires headersB(80)A VG SCORE 23%SERVERHGHAvoid URL redirectsA (80)A VG SCORE 23%CONTENTMEDUMMake fewer HTTP requestsA (100)A VG SCORE 23%CONTENTHGHCompress components with gzipA (100)A VG SCORE 23%CONTENTHGHMinity JavaScript and CSSA (100)A VG SCORE 10%SERVERHGHMake AJAX cacheableA (100)A VG SCORE 10%JSMEDUMRemove duplicate JavaScript and CSSA (100)A VG SCORE 10%JSMEDUMAvoid HTTP 404 (Not Found) errorA (100)A VG SCORE 95%CSS VBMEDUMReduce the number of DOM elementsA (100)A VG SCORE 95%CONTENTLOWUse cockie-free domainsA (100)A VG SCORE 95%CONTENTLOWAvoid CSS expressionsA (100)A VG SCORE 10%JSLOWReduce DNS lookupsA (100)A VG SCORE 10%LOWLOWReduce cockie sizeA (100)A VG SCORE 10%CONTENTLOWMake favicon small and cacheableA (100)A VG SCORE 10%LOWLOWMake favicon small and cacheableA (100)A VG SCORE 10%LOWLOWMake favicon small and CacheableA (100)A VG SCORE 10%LOWLOWMake favicon small and CacheableA (100)A VG SCORE 10%SERVERLOWMake favicon small and CacheableA (100) <th>RECOMMENDATION</th> <th>GRADE</th> <th>RELATIVE</th> <th>TYPE</th> <th>PRIORITY</th>	RECOMMENDATION	GRADE	RELATIVE	TYPE	PRIORITY
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Make favicon small and cacheable A (100) A VG SCORE 100% IMAGES LOW Configure entity tags (ETags) A (100) A VG SCORE 93% SERVER LOW	Reduce DNS lookups	A (100)	AVG SCORE: 70%	CONTENT	LOW
Configure entity tags (ETags) A (100) A VG SCORE 93% SERVER LOW	Reduce cookie size	A (100)	AVG SCORE: 100%	COOKIE	LOW
	Make favicon small and cacheable	A (100)	♦ AVG SCORE: 100%	IMAGES	LOW
Make JavaScript and CSS external (n/a) CSS/JS MEDIUM	Configure entity tags (ETags)	A (100)	AVG SCORE: 93%	SERVER	LOW
	Make JavaScript and CSS external	(n/a)		CSS/JS	MEDIUM



YSlow Recommendations