

The web should be fast.

Executive Summary

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Performance Report for:

http://airforceamy.com/

Report generated:	Mon, Jan 8, 2018, 11:20 AM -0800
Test Server Region:	▶ Vancouver, Canada
Using:	© Chrome (Desktop) 62.0.3202.94, PageSpee
	at1, YSIow 3.1.8

PageSpeed Score	YSlow Score C(74%) ♦		Fully Loaded Time)	Total Page Size	e •	Rec 2	guests
Top 5 Priority Issue	es							
Leverage browser caching		F ((42)	•	AVG SCORE: 59%	SERVER		HIGH
Optimize the order of styles	and scripts	A	(92)	•	AVG SCORE: 94%	CSS/JS		HIGH
Avoid CSS @import		A	(92)	v 1	AVG SCORE: 98%	CSS		MEDIUM
Defer parsing of JavaScript		A	(92)	•	AVG SCORE: 69%	JS		HIGH
Specify a cache validator		А	(98)	•	AVG SCORE: 94%	SERVER		HIGH

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 22 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.

ullet Air Force Amy Official Website of Sex Legend & Moonlite Bunnyranch Star

• GET airforceamy.c 301 Mo airfor	rceamy 0	391ms	
GET airforceamy.c 200 OK airfor	ceam 16.9 KB	319ms	
GET css?family=Or 200 fonts	.goog 1.3 KB	51ms	
• GET f244654e18d3 200 OK airfor	ceamy 109.6 KB	256ms	
■ GET jquery-1.12.4. 200 OK airfor	ceam 32.6 KB	248ms	
GET ebs_dynamic_ 200 OK airfor	rceam, 0	182ms	
• GET 9c27484161e 4 200 OK airfor	ceam 27.9 KB	126ms	
H GET flexvideo.css 200 OK airfor	rceamy 34 B	63ms	
• GET header2.jpg 200 OK airfor	rceam, 73 KB	122 1	a
GET aso1.png 200 OK airfor	ceam 3.1 KB	62ms	
GET aso2.png 200 OK airfor	ceam 4.4 KB	64ms	
GET aso3.png 200 OK airfor	ceam 3.6 KB	120	ms
GET footer-logo-fla 200 OK airfor	ceam 22.1 KB		176ms
■ GET 9a3a65f61e37 200 OK airfor	rceam 7.2 KB		190ms
GET k3k702ZOKiLJ 200 fonts	.gstat 14.4 KB	8ms	
GET QmTOgNNWMS 200 fonts	.gstat 7.7 KB	7ms	
GET cJZKeOuBrn4k 200 fonts	.gstat 13.7 KB	9ms	
GET glyphicons-ha 200 OK airfor	ceam 22.3 KB	74	ß
GET PRmiXeptR36I 200 fonts	.gstat 13.1 KB	6ms	
GET main-bg-desk 200 OK airfor	ceam, 322.5 KB		425r is
GET tab.png 200 OK airfor	rceam 559 B		71ms
GET lazyload-10.3. 200 OK airfor	rceam 1.1 KB		62ms
GET favicon.ico 200 OK airfor	rceam, 0		66ms
23 Requests	697.1 KB		1.71s (onload: 1.63s)



Page Load Timings

Page Load Timings

RUM Speed Index: 1,531

Redirect 397ms
Connect 197ms
Backend 61ms
TTFB 0.7s
DOM int. 1.3s
First paint 1.3s
Contentful paint 1.3s
DOM loaded 1.5s (17ms)
Onload 1.6s (3ms)

Redirect duration

terfall Chart ?			Redire	ct Duratio	'n
JTube			H	-	
GET youtube.com	301 Move	youtube.com	0	638ms	
GET www.youtube.com	301 Move	youtube.com	0	635m	s
GET ww First 200 OK	200 OK	youtube.com	52.6 KB		
GET scheduler.js	200 OK	youtube.com	2 KB		222ms
GET www-pageframe-vf17RQ	200 OK	youtube.com	8.7 KB		833ms
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-vfllV na		voutube.com	25 KB		

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	\sim			
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.



Page Load Timings

mize_c72e561d5	200 OK	example.com	80.4 KB	
ily=PT+Sans Fir	st 200 Ok	onts.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	

Time to First Byte (TTFB)

erfall Chart ?				TTFB	
Tube			- F		
GET youtube.com	301 Move	youtube.com	0	638ms	
GET www.youtube.com	301 Move	youtube.com	0	639m	15
GET ww First 200 OK	200 OK	youtube.com	52.6 KB		
GET scheduler.js	200 OK	youtube.com	2 KB		222ms
GET www-pageframe-vfl7RQ	200 OK	youtube.com	8.7 KB		833ms
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

DOM interactive time

		_	
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

e.com	0	638ms			
0.00111					
e.com	0	635r	ns		
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		

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.

Contentful Paint a.com 0 638ms a.com 0 635ms a.com 2 209 a.com 2 K8 209 a.com 3.7 K8 837ms a.com 4.38 K8 599ms a.com 4.38 K8 599ms

First contentful paint time

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.

DOM content loaded time

opded

DOM content loaded time (DOM loaded or DOM ready for short) is the point at which the DOM is

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) 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.

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



Page Load Timings

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

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.

The time in brackets is the time spent executing JavaScript triggered by the DOM content loaded 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.

Onload time

			Onload
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 K.B	857ms	
e.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
Leverage browser caching	F (42)	VG SCORE: 59%	SERVER	HIGH
Optimize the order of styles and scripts	A (92)	AVG SCORE: 94%	CSS/JS	HIGH
Avoid CSS @import	A (92)	VG SCORE: 98%	CSS	MEDIUM
Defer parsing of JavaScript	A (92)	AVG SCORE: 69%	JS	HIGH
Specify a cache validator	A (98)	♦ AVG SCORE: 94%	SERVER	HIGH
Specify image dimensions	A (99)	♦ AVG SCORE: 98%	IMAGES	MEDIUM
Optimize images	A (99)	AVG SCORE: 69%	IMAGES	HIGH
Minify HTML	A (99)	♦ AVG SCORE: 98%	CONTENT	LOW
Minify CSS	A (99)	♦ AVG SCORE: 95%	CSS	HIGH
Minify JavaScript	A (99)	AVG SCORE: 89%	JS	HIGH
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: 84%	SERVER	HIGH
Enable Keep-Alive	A (100)	♦ AVG SCORE: 95%	SERVER	HIGH
Inline small CSS	A (100)	♦ AVG SCORE: 96%	CSS	HIGH
Inline small JavaScript	A (100)	AVG SCORE: 94%	JS	HIGH
Minimize redirects	A (100)	AVG SCORE: 87%	CONTENT	HIGH
Minimize request size	A (100)	♦ AVG SCORE: 97%	CONTENT	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: 74%	IMAGES	HIGH
Combine images using CSS sprites	A (100)	AVG SCORE: 88%	IMAGES	HIGH
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
Remove query strings from static resources	A (100)	AVG SCORE: 89%	CONTENT	LOW
Specify a Vary: Accept-Encoding header	A (100)	♦ AVG SCORE: 96%	SERVER	LOW



YSlow Recommendations

YSlow Recommendations

RECOMMENDATION	GRADE	RELATIVE	TYPE	PRIORITY
Add Expires headers	F (0)	VG SCORE: 25%	SERVER	HIGH
Use a Content Delivery Network (CDN)	F (0)	VG SCORE: 17%	SERVER	MEDIUM
Use cookie-free domains	F (3 <mark>0</mark>)	VG SCORE: 46%	COOKIE	LOW
Make fewer HTTP requests	B (88)	AVG SCORE: 33%	CONTENT	HIGH
Minify JavaScript and CSS	A (90)	AVG SCORE: 72%	CSS/JS	MEDIUM
Avoid URL redirects	A (90)	💠 AVG SCORE: 88%	CONTENT	MEDIUM
Compress components with gzip	A (100)	AVG SCORE: 85%	SERVER	HIGH
Make AJAX cacheable	A (100)	🔶 AVG SCORE: 100%	JS	MEDIUM
Remove duplicate JavaScript and CSS	A (100)	🔶 AVG SCORE: 100%	CSS/JS	MEDIUM
Avoid AlphalmageLoader filter	A (100)	🔶 AVG SCORE: 99%	CSS	MEDIUM
Avoid HTTP 404 (Not Found) error	A (100)	♦ AVG SCORE: 98%	CONTENT	MEDIUM
Reduce the number of DOM elements	A (100)	AVG SCORE: 92%	CONTENT	LOW
Use GET for AJAX requests	A (100)	♦ AVG SCORE: 100%	JS	LOW
Avoid CSS expressions	A (100)	♦ AVG SCORE: 99%	CSS	LOW
Reduce DNS lookups	A (100)	AVG SCORE: 70%	CONTENT	LOW
Reduce cookie size	A (100)	♦ AVG SCORE: 100%	COOKIE	LOW
Make favicon small and cacheable	A (100)	🔶 AVG SCORE: 100%	IMAGES	LOW
Configure entity tags (ETags)	A (100)	AVG SCORE: 90%	SERVER	LOW
Make JavaScript and CSS external	(n/a)		CSS/JS	MEDIUM