Performance Report for:

https://pellets.herokuapp.com/

Report generated:	Tue, Oct 25, 2016, 2:22 PM -0700
Test Server Region:	🇨🇦 Vancouver, Canada
Using:	🦊 Firefox (Desktop) 47.0, PageSpeed 1.15-gt1, YSlow 3.1.8

PageSpeed Score	YSlow Score		Page Load Time	Total Page Size	Requests
E (56%) ⌄	**A (90%)** ⌃		4.1s ⌃	10.7MB ⌄	11 ⌃

Top 5 Priority Issues

Enable gzip compression	F (0)	❤	AVG SCORE: 82%	SERVER	HIGH
Optimize images	B (83)	⌃	AVG SCORE: 69%	IMAGES	HIGH
Specify a cache validator	A (98)	◆	AVG SCORE: 94%	SERVER	HIGH
Minify HTML	A (99)	◆	AVG SCORE: 98%	CONTENT	LOW
Minify JavaScript	A (99)	⌃	AVG SCORE: 88%	JS	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

GT.net
Performance Hosting

GTmetrix is developed by the good folks at **GT.net**, a Vancouver-based performance hosting company with over 20 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?
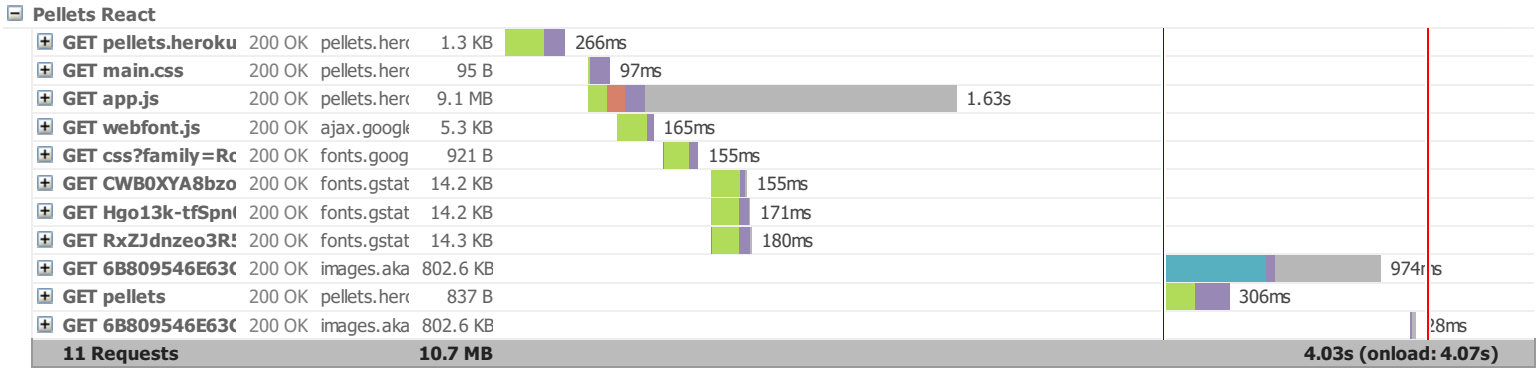
This report covers basic to technical analyses on your page. It is categorized under many headings:

- **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.

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.

⊟ **Pellets React**					
⊞ **GET pellets.heroku**	200 OK	pellets.herc	1.3 KB	266ms	
⊞ **GET main.css**	200 OK	pellets.herc	95 B	97ms	
⊞ **GET app.js**	200 OK	pellets.herc	9.1 MB	1.63s	
⊞ **GET webfont.js**	200 OK	ajax.google	5.3 KB	165ms	
⊞ **GET css?family=Rc**	200 OK	fonts.goog	921 B	155ms	
⊞ **GET CWB0XYA8bzo**	200 OK	fonts.gstat	14.2 KB	155ms	
⊞ **GET Hgo13k-tfSpn**	200 OK	fonts.gstat	14.2 KB	171ms	
⊞ **GET RxZJdnzeo3R!**	200 OK	fonts.gstat	14.3 KB	180ms	
⊞ **GET 6B809546E63(**	200 OK	images.aka	802.6 KB	974ms	
⊞ **GET pellets**	200 OK	pellets.herc	837 B	306ms	
⊞ **GET 6B809546E63(**	200 OK	images.aka	802.6 KB	28ms	
11 Requests			**10.7 MB**	**4.03s (onload: 4.07s)**	

PageSpeed Recommendations

RECOMMENDATION	GRADE	RELATIVE	TYPE	PRIORITY
Enable gzip compression	F (0)	❤ AVG SCORE: 82%	SERVER	HIGH

Enable compression for the following resources to reduce their transfer size by 826.6KiB (79% reduction).

- Compressing https://pellets.herokuapp.com/app.js could save 825.5KiB (79% reduction).
- Compressing https://pellets.herokuapp.com/ could save 621B (46% reduction).
- Compressing https://pellets.herokuapp.com/pellets could save 429B (51% reduction).

RECOMMENDATION	GRADE	RELATIVE	TYPE	PRIORITY
Optimize images	B (83)	▲ AVG SCORE: 69%	IMAGES	HIGH

Optimize the following images to reduce their size by 20.0KiB (3% reduction).

- Losslessly compressing http://images.akamai.steamusercontent.com/ugc/530670181250983741/6B809546E63C3435C2C5FCF4EADECAF7CDC04E23/ could save 20.0KiB (3% reduction). See optimized version.

RECOMMENDATION	GRADE	RELATIVE	TYPE	PRIORITY
Specify a cache validator	A (98)	◆ AVG SCORE: 94%	SERVER	HIGH

The following resources are missing a cache validator. Resources that do not specify a cache validator cannot be refreshed efficiently. Specify a Last-Modified or ETag header to enable cache validation for the following resources:

- https://fonts.googleapis.com/css?family=Roboto:400,300,500&subset=latin

RECOMMENDATION	GRADE	RELATIVE	TYPE	PRIORITY
Minify HTML	A (99)	◆ AVG SCORE: 98%	CONTENT	LOW

Minify HTML for the following resources to reduce their size by 562B (42% reduction).

- Minifying https://pellets.herokuapp.com/ could save 562B (42% reduction). See optimized version.

RECOMMENDATION	GRADE	RELATIVE	TYPE	PRIORITY
Minify JavaScript	A (99)	▲ AVG SCORE: 88%	JS	HIGH

Minify JavaScript for the following resources to reduce their size by 429B (8% reduction).

- Minifying https://ajax.googleapis.com/ajax/libs/webfont/1/webfont.js could save 429B (8% reduction) after compression. See optimized version.

RECOMMENDATION	GRADE	RELATIVE	TYPE	PRIORITY
Minify CSS	A (99)	◆ AVG SCORE: 94%	CSS	HIGH

Minify CSS for the following resources to reduce their size by 84B (8% reduction).

- Minifying https://fonts.googleapis.com/css?family=Roboto:400,300,500&subset=latin could save 67B (7% reduction) after compression. See optimized version.
- Minifying https://pellets.herokuapp.com/main.css could save 17B (18% reduction). See optimized version.

RECOMMENDATION	GRADE	RELATIVE	TYPE	PRIORITY
Avoid bad requests	A (100)	◆ AVG SCORE: 98%	CONTENT	HIGH

You scored 100% on this recommendation - nothing to do here!

| **Avoid landing page redirects** | A (100) | ◆ AVG SCORE: 99% | SERVER | HIGH |

You scored 100% on this recommendation - nothing to do here!

| **Defer parsing of JavaScript** | A (100) | ▲ AVG SCORE: 70% | JS | HIGH |

You scored 100% on this recommendation - nothing to do here!

| **Enable Keep-Alive** | A (100) | ▲ AVG SCORE: 91% | SERVER | HIGH |

You scored 100% on this recommendation - nothing to do here!

| **Inline small CSS** | A (100) | ◆ AVG SCORE: 96% | CSS | HIGH |

You scored 100% on this recommendation - nothing to do here!

| **Inline small JavaScript** | A (100) | ▲ AVG SCORE: 94% | JS | HIGH |

You scored 100% on this recommendation - nothing to do here!

| **Leverage browser caching** | A (100) | ▲ AVG SCORE: 60% | SERVER | HIGH |

You scored 100% on this recommendation - nothing to do here!

| **Minimize redirects** | A (100) | ▲ AVG SCORE: 88% | CONTENT | HIGH |

You scored 100% on this recommendation - nothing to do here!

| **Minimize request size** | A (100) | ◆ AVG SCORE: 98% | CONTENT | HIGH |

You scored 100% on this recommendation - nothing to do here!

| **Optimize the order of styles and scripts** | A (100) | ◆ AVG SCORE: 96% | CSS/JS | HIGH |

You scored 100% on this recommendation - nothing to do here!

| **Put CSS in the document head** | A (100) | ◆ AVG SCORE: 100% | CSS | HIGH |

You scored 100% on this recommendation - nothing to do here!

Serve resources from a consistent URL `A (100)` ▲ AVG SCORE: 90% CONTENT HIGH

You scored 100% on this recommendation - nothing to do here!

Serve scaled images `A (100)` ▲ AVG SCORE: 73% IMAGES HIGH

You scored 100% on this recommendation - nothing to do here!

Combine images using CSS sprites `A (100)` ▲ AVG SCORE: 84% IMAGES HIGH

You scored 100% on this recommendation - nothing to do here!

Avoid CSS @import `A (100)` ◆ AVG SCORE: 98% CSS MEDIUM

You scored 100% on this recommendation - nothing to do here!

Prefer asynchronous resources `A (100)` ◆ AVG SCORE: 99% JS MEDIUM

You scored 100% on this recommendation - nothing to do here!

Specify a character set early `A (100)` ◆ AVG SCORE: 100% CONTENT MEDIUM

You scored 100% on this recommendation - nothing to do here!

Specify image dimensions `A (100)` ◆ AVG SCORE: 97% IMAGES MEDIUM

You scored 100% on this recommendation - nothing to do here!

Avoid a character set in the meta tag `A (100)` ◆ AVG SCORE: 100% CONTENT LOW

You scored 100% on this recommendation - nothing to do here!

Remove query strings from static resources `A (100)` ▲ AVG SCORE: 92% CONTENT LOW

You scored 100% on this recommendation - nothing to do here!

Specify a Vary: Accept-Encoding header `A (100)` ◆ AVG SCORE: 96% SERVER LOW

You scored 100% on this recommendation - nothing to do here!

YSlow Recommendations

RECOMMENDATION	GRADE	RELATIVE	TYPE	PRIORITY
Add Expires headers	D (67)	▲ AVG SCORE: 26%	SERVER	HIGH

There are 3 static components without a far-future expiration date.

- https://pellets.herokuapp.com/main.css
- https://pellets.herokuapp.com/app.js
- https://fonts.googleapis.com/css?family=Roboto:400,300,500&subset=latin

RECOMMENDATION	GRADE	RELATIVE	TYPE	PRIORITY
Compress components with gzip	D (67)	▼ AVG SCORE: 80%	SERVER	HIGH

There are 3 plain text components that should be sent compressed

- https://pellets.herokuapp.com/
- https://pellets.herokuapp.com/app.js
- https://pellets.herokuapp.com/pellets

RECOMMENDATION	GRADE	RELATIVE	TYPE	PRIORITY
Use a Content Delivery Network (CDN)	C (70)	▲ AVG SCORE: 14%	SERVER	MEDIUM

Using a CDN YSlow doesn't recognize? Specify your CDNs in your User Settings.

There are 3 static components that are not on CDN.

- https://pellets.herokuapp.com/main.css
- https://pellets.herokuapp.com/app.js
- http://images.akamai.steamusercontent.com/ugc/530670181250983741/6B809546E63C3435C2C5FCF4EADECAF7CDC04E23/

RECOMMENDATION	GRADE	RELATIVE	TYPE	PRIORITY
Make fewer HTTP requests	A (100)	▲ AVG SCORE: 36%	CONTENT	HIGH

You scored 100% on this recommendation - nothing to do here!

RECOMMENDATION	GRADE	RELATIVE	TYPE	PRIORITY
Minify JavaScript and CSS	A (100)	▲ AVG SCORE: 72%	CSS/JS	MEDIUM

You scored 100% on this recommendation - nothing to do here!

RECOMMENDATION	GRADE	RELATIVE	TYPE	PRIORITY
Avoid URL redirects	A (100)	▲ AVG SCORE: 84%	CONTENT	MEDIUM

You scored 100% on this recommendation - nothing to do here!

RECOMMENDATION	GRADE	RELATIVE	TYPE	PRIORITY
Make AJAX cacheable	A (100)	◆ AVG SCORE: 100%	JS	MEDIUM

You scored 100% on this recommendation - nothing to do here!

RECOMMENDATION	GRADE	RELATIVE	TYPE	PRIORITY
Remove duplicate JavaScript and CSS	A (100)	◆ AVG SCORE: 100%	CSS/JS	MEDIUM

You scored 100% on this recommendation - nothing to do here!

Avoid AlphaImageLoader filter

`A (100)` ◆ AVG SCORE: 98% CSS MEDIUM

You scored 100% on this recommendation - nothing to do here!

Avoid HTTP 404 (Not Found) error

`A (100)` ◆ AVG SCORE: 99% CONTENT MEDIUM

You scored 100% on this recommendation - nothing to do here!

Reduce the number of DOM elements

`A (100)` ▲ AVG SCORE: 92% CONTENT LOW

You scored 100% on this recommendation - nothing to do here!

Use cookie-free domains

`A (100)` ▲ AVG SCORE: 46% COOKIE LOW

You scored 100% on this recommendation - nothing to do here!

Use GET for AJAX requests

`A (100)` ◆ AVG SCORE: 100% JS LOW

You scored 100% on this recommendation - nothing to do here!

Avoid CSS expressions

`A (100)` ◆ AVG SCORE: 99% CSS LOW

You scored 100% on this recommendation - nothing to do here!

Reduce DNS lookups

`A (100)` ▲ AVG SCORE: 73% CONTENT LOW

- pellets.herokuapp.com: 4 components, 9518.7K
- ajax.googleapis.com: 1 component, 13.1K (5.4K GZip)
- fonts.googleapis.com: 1 component, 6.8K (0.9K GZip)
- images.akamai.steamusercontent.com: 1 component, 821.8K

Reduce cookie size

`A (100)` ◆ AVG SCORE: 100% COOKIE LOW

You scored 100% on this recommendation - nothing to do here!

Make favicon small and cacheable

`A (100)` ◆ AVG SCORE: 100% IMAGES LOW

You scored 100% on this recommendation - nothing to do here!

Configure entity tags (ETags)

`A (100)` ▲ AVG SCORE: 82% SERVER LOW

You scored 100% on this recommendation - nothing to do here!

Make JavaScript and CSS external   (n/a)   CSS/JS   MEDIUM

Only consider this if your property is a common user home page.

- There is a total of 1 inline script