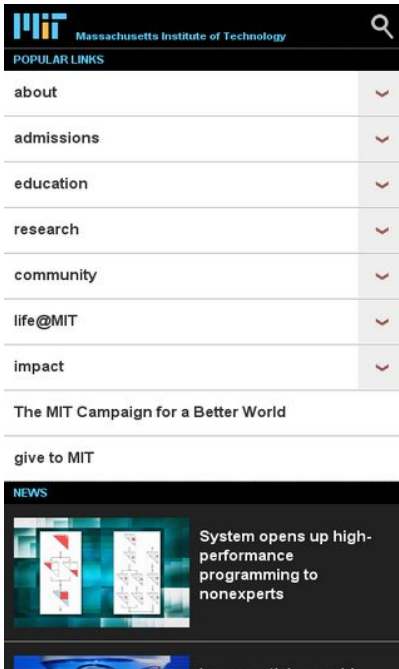# PageSpeed Insights

Mobile

63 / 100 Speed

⚠ Should Fix:

Leverage browser caching

Setting an expiry date or a maximum age in the HTTP headers for static resources instructs the browser to load previously downloaded resources from local disk rather than over the network.

Leverage browser caching for the following cacheable resources:

- http://web.mit.edu/files/assets/css/main.min.css (expiration not specified)

- http://web.mit.edu/files/assets/css/normalize.min.css (expiration not specified)

- http://web.mit.edu/files/assets/images/icon-arrow-down-hd.png (expiration not specified)

- http://web.mit.edu/files/assets/images/icon-arrow-go-hd.png (expiration not specified)

- http://web.mit.edu/files/assets/images/icon-search-hd.png (expiration not specified)

- http://web.mit.edu/files/assets/images/logo-mit-print.gif (expiration not specified)

- http://web.mit.edu/files/assets/images/sprites-social-hd.png (expiration not specified)

- http://web.mit.edu/files/assets/images/sprites-social-print.png (expiration not specified)

- http://web.mit.edu/files/assets/js/modernizr-2.8.3.min.js (expiration not specified)

- http://web.mit.edu/files/images/homepage/default/mit_logo.gif (expiration not specified)

- http://web.mit.edu/files/images/news/2016/HP-Atom-Trap_0.jpg (expiration not specified)

- http://web.mit.edu/files/images/news/2016/HP-Geography-Healthcare.jpg (expiration not specified)

- http://web.mit.edu/files/images/news/2016/HP-Laser-Particles.jpg (expiration not specified)

- http://web.mit.edu/files/images/news/2016/HP-Laymans-Parellel.jpg (expiration not specified)

- http://web.mit.edu/files/images/news/2016/HP-William-Bonvillian_0.jpg (expiration not specified)

- https://www.google-analytics.com/analytics.js (2 hours)

Eliminate render-blocking JavaScript and CSS in above-the-fold content

Your page has 3 blocking script resources and 3 blocking CSS resources. This causes a delay in rendering your page.

None of the above-the-fold content on your page could be rendered without waiting for the following resources to load. Try to defer or asynchronously load blocking resources, or inline the critical portions of those resources directly in the HTML.

Remove render-blocking JavaScript:

- http://web.mit.edu/files/assets/js/modernizr-2.8.3.min.js

- http://web.mit.edu/files/assets/js/jquery.js?v1.4.4

- http://web.mit.edu/files/assets/js/site.min.js?v=1461245260

Optimize CSS Delivery of the following:

- http://web.mit.edu/files/assets/css/normalize.min.css

- http://web.mit.edu/files/assets/css/main.min.css

- http://web.mit.edu/files/assets/css/site.min.css?v=1475596776

Mobile

🚩 Consider Fixing:

Enable compression

Compressing resources with gzip or deflate can reduce the number of bytes sent over the network.

Enable compression for the following resources to reduce their transfer size by 63.6KiB (65% reduction).

- Compressing http://web.mit.edu/files/assets/js/jquery.js?v1.4.4 could save 50.3KiB (65% reduction).

- Compressing http://web.mit.edu/files/assets/js/modernizr-2.8.3.min.js could save 9KiB (59% reduction).

- Compressing http://web.mit.edu/files/assets/js/site.min.js?v=1461245260 could save 4.3KiB (77% reduction).

Optimize images

Properly formatting and compressing images can save many bytes of data.

Optimize the following images to reduce their size by 12.6KiB (58% reduction).

- Compressing http://web.mit.edu/files/assets/images/sprites-social-hd.png could save 5.6KiB (49% reduction).

- Compressing http://web.mit.edu/files/assets/images/sprites-social-print.png could save 3.1KiB (70% reduction).

- Compressing http://web.mit.edu/files/images/homepage/default/mit_logo.gif could save 1.2KiB (90% reduction).

- Compressing http://web.mit.edu/files/images/homepage/default/mit_logo.gif?v=1478498409 could save 1.2KiB (90% reduction).

- Compressing http://web.mit.edu/files/assets/images/icon-arrow-down-hd.png could save

870B (54% reduction).

- Compressing http://web.mit.edu/files/assets/images/icon-arrow-go-hd.png could save 682B (48% reduction).

Prioritize visible content

Your page requires additional network round trips to render the above-the-fold content. For best performance, reduce the amount of HTML needed to render above-the-fold content.

The entire HTML response was not sufficient to render the above-the-fold content. This usually indicates that additional resources, loaded after HTML parsing, were required to render above-the-fold content. Prioritize visible content that is needed for rendering above-the-fold by including it directly in the HTML response.

- Only about 48% of the final above-the-fold content could be rendered with the full HTML response snapshot:6.

✔ 5 Passed Rules

Avoid landing page redirects

Your page has no redirects. Learn more about avoiding landing page redirects.

Reduce server response time

Your server responded quickly. Learn more about server response time optimization.

Minify CSS

Your CSS is minified. Learn more about minifying CSS.

Mobile

Minify HTML

Your HTML is minified. Learn more about [minifying HTML](#).

Minify JavaScript

Your JavaScript content is minified. Learn more about [minifying JavaScript](#).

99 / 100   User Experience

⚠ Consider Fixing:

Size tap targets appropriately

Some of the links/buttons on your webpage may be too small for a user to easily tap on a touchscreen. Consider [making these tap targets larger](#) to provide a better user experience.

The following tap targets are close to other nearby tap targets and may need additional spacing around them.

- The tap target `<a href="http://news.mit.edu">News</a>` and 2 others are close to other tap targets final.

- The tap target `<a href="http://news.mi...-scooters-1107" class="spotlight-title">Autonomous scooters</a>` is close to 1 other tap targets.

✔ 4 Passed Rules

Avoid plugins

Your page does not appear to use plugins, which would prevent content from being usable on many platforms. Learn more about the importance of [avoiding plugins](#).

Mobile

Configure the viewport

Your page specifies a viewport matching the device's size, which allows it to render properly on all devices. Learn more about configuring viewports.

Size content to viewport

The contents of your page fit within the viewport. Learn more about sizing content to the viewport.

Use legible font sizes

The text on your page is legible. Learn more about using legible font sizes.

Desktop

80 / 100 Speed

⚠ Consider Fixing:

Enable compression

Compressing resources with gzip or deflate can reduce the number of bytes sent over the network.

for the following resources to reduce their transfer size by 63.6KiB (65% reduction).

- Compressing http://web.mit.edu/files/assets/js/jquery.js?v1.4.4 could save 50.3KiB (65% reduction).

- Compressing http://web.mit.edu/files/assets/js/modernizr-2.8.3.min.js could save 9KiB (59% reduction).

- Compressing http://web.mit.edu/files/assets/js/site.min.js?v=1461245260 could save 4.3KiB (77% reduction).

Leverage browser caching

Setting an expiry date or a maximum age in the HTTP headers for static resources instructs the browser to load previously downloaded resources from local disk rather than over the network.

for the following cacheable resources:

- http://web.mit.edu/files/assets/css/main.min.css (expiration not specified)

- http://web.mit.edu/files/assets/css/normalize.min.css (expiration not specified)

- http://web.mit.edu/files/assets/images/bg_transparent.png (expiration not specified)

- http://web.mit.edu/files/assets/images/logo-mit-print.gif (expiration not specified)

- http://web.mit.edu/files/assets/images/sprites-social-hd.png (expiration not specified)

- http://web.mit.edu/files/assets/images/sprites-social-print.png (expiration not specified)

- http://web.mit.edu/files/assets/js/modernizr-2.8.3.min.js (expiration not specified)

- http://web.mit.edu/files/images/homepage/default/mit_logo.gif (expiration not specified)

- http://web.mit.edu/files/images/news/2016/HP-Atom-Trap_0.jpg (expiration not specified)

- http://web.mit.edu/files/images/news/2016/HP-Geography-Healthcare.jpg (expiration not specified)

- http://web.mit.edu/files/images/news/2016/HP-Laser-Particles.jpg (expiration not specified)

- http://web.mit.edu/files/images/news/2016/HP-Laymans-Parellel.jpg (expiration not specified)

- http://web.mit.edu/files/images/news/2016/HP-William-Bonvillian_0.jpg (expiration not specified)

- https://www.google-analytics.com/analytics.js (2 hours)

Eliminate render-blocking JavaScript and CSS in above-the-fold content

Your page has 3 blocking script resources and 3 blocking CSS resources. This causes a delay in rendering your page.

None of the above-the-fold content on your page could be rendered without waiting for the following resources to load. Try to defer or asynchronously load blocking resources, or inline the critical portions of those resources directly in the HTML.

Remove render-blocking JavaScript:

- http://web.mit.edu/files/assets/js/modernizr-2.8.3.min.js

- http://web.mit.edu/files/assets/js/jquery.js?v1.4.4

- http://web.mit.edu/files/assets/js/site.min.js?v=1461245260

Optimize CSS Delivery of the following:

- http://web.mit.edu/files/assets/css/normalize.min.css

- http://web.mit.edu/files/assets/css/main.min.css

- http://web.mit.edu/files/assets/css/site.min.css?v=1475596776

Optimize images

Properly formatting and compressing images can save many bytes of data.

Optimize the following images to reduce their size by 11.1KiB (59% reduction).

- Compressing http://web.mit.edu/files/assets/images/sprites-social-hd.png could save 5.6KiB (49% reduction).

- Compressing http://web.mit.edu/files/assets/images/sprites-social-print.png could save 3.1KiB (70% reduction).

Desktop

- Compressing http://web.mit.edu/files/images/homepage/default/mit_logo.gif could save 1.2KiB (90% reduction).

- Compressing http://web.mit.edu/files/images/homepage/default/mit_logo.gif?v=1478498409 could save 1.2KiB (90% reduction).

✔ 6 Passed Rules

Avoid landing page redirects

Your page has no redirects. Learn more about [avoiding landing page redirects](#).

Reduce server response time

Your server responded quickly. Learn more about [server response time optimization](#).

Minify CSS

Your CSS is minified. Learn more about [minifying CSS](#).

Minify HTML

Your HTML is minified. Learn more about [minifying HTML](#).

Minify JavaScript

Your JavaScript content is minified. Learn more about [minifying JavaScript](#).

Prioritize visible content

You have the above-the-fold content properly prioritized. Learn more about [prioritizing visible](#)

[Desktop](...)

[content](...).