








 CONTENTSQUARE

 dareboost
by ContentSquare



menu

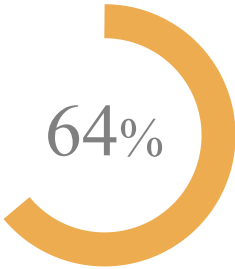
-  CONTENTSQUARE
-  dareboost
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- [Home](#)
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- 
-

-
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Quality and Performance report

https://waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/
Report generated on Aug 2, 2021 8:37:22 PM

 Download report



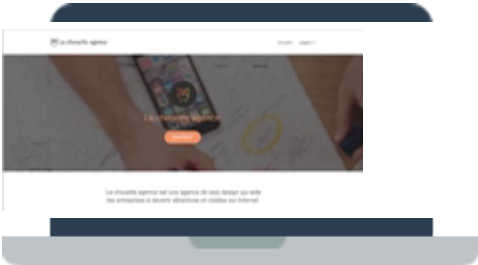
Basics are there.
10

Issues
14

Improvements
61

Successes

See your priorities



SIMULATED VISITOR: Chrome Paris 8.0/1.5Mbps (Latency: 50 ms) [Edit](#)

Largest Contentful Paint



Total Blocking Time

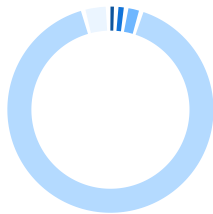


Cumulative Layout Shift



Core Web Vitals: Failing to Comply

Weight



HTML CSS JS IMG OTHERS

Timeline / Waterfall
TTFB: 183 ms
Speed Index: 1237
Browser warnings 0

Technologies :



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Tips and best practices:

All categories

All categoriesAccessibilityBrowser renderingCache
policyComplianceData amountNumber of
requestsQualitySEOSecurity  jQuery

Things to improve

Data amount

0/100

Some resources are too heavy

This page contains **a file with a size greater than 1MB**:

- [waleedos.github.io/ElwalidELKHABOU_4\[...\]/presentation.bmp](https://waleedos.github.io/ElwalidELKHABOU_4[...]/presentation.bmp) (2.2MB)

Too heavy files should not be loaded on a web page. Be sure you need this resource to load the page. You should probably consider some of the following actions:

- resize the images to fit the display size
- compress the resource
- load the resource asynchronously

Read less

Data amount

0/100

Reduce the page weight (4.0MB)

The page weight is too high, slowing down its display, especially on low-speed connections. This can lead to frustration for users paying for data (see whatdoesmysitecost.com).

Evaluate the Weight of my Web Page

According to HTTPArchive, in July 2019, [the average weight of a web page is 1.95MB](#).

How to reduce the weight of my page?

You can report to our "Data amount" category to discover the possible optimizations in your case. Images are often involved.

Moreover, make sure to build your web pages to load data that is essential to the user experience (rendering optimization of the critical path).

For other content (social networking plugins, advertising, content at the bottom of the page ...), it is better to delay the loading (asynchronous, lazy-loading ...), so they don't override priority contents.

We strongly recommend that you define [performance budgets before you carry out your web projects](#). These budgets can be settled through the [Dareboost monitoring feature](#).

We have established the weight distribution of the page by resource type:

- **Images** : 93,89% of total weight
- **Font** : 3,34% of total weight
- **JavaScript** : 1,79% of total weight
- **CSS** : 0,89% of total weight
- **Texts** : 0,09% of total weight

Here is the weight of the 10 heaviest resources over the network, and that are necessary to load the page:

- [waleedos.github.io/ElwalidELKHABOU_4\[...\]/presentation.bmp](https://waleedos.github.io/ElwalidELKHABOU_4[...]/presentation.bmp) (2.2MB)
- [waleedos.github.io/ElwalidELKHABOU_4\[...\]/nce-banniere.jpg](https://waleedos.github.io/ElwalidELKHABOU_4[...]/nce-banniere.jpg) (615kB)
- [waleedos.github.io/ElwalidELKHABOU_4\[...\]/hanges/img/1.jpg](https://waleedos.github.io/ElwalidELKHABOU_4[...]/hanges/img/1.jpg) (273kB)
- [waleedos.github.io/ElwalidELKHABOU_4\[...\]/hanges/img/4.bmp](https://waleedos.github.io/ElwalidELKHABOU_4[...]/hanges/img/4.bmp) (225kB)
- [waleedos.github.io/ElwalidELKHABOU_4\[...\]/hanges/img/3.bmp](https://waleedos.github.io/ElwalidELKHABOU_4[...]/hanges/img/3.bmp) (171kB)
- [waleedos.github.io/ElwalidELKHABOU_4\[...\]/hanges/img/2.jpg](https://waleedos.github.io/ElwalidELKHABOU_4[...]/hanges/img/2.jpg) (110kB)
- [waleedos.github.io/ElwalidELKHABOU_4\[...\]/exture-paper.png](https://waleedos.github.io/ElwalidELKHABOU_4[...]/exture-paper.png) (96kB)
- [waleedos.github.io/ElwalidELKHABOU_4\[...\]/nt.woff2?v=4.7.0](https://waleedos.github.io/ElwalidELKHABOU_4[...]/nt.woff2?v=4.7.0) (78kB)
- [waleedos.github.io/ElwalidELKHABOU_4\[...\]/nts/et-line.woff](https://waleedos.github.io/ElwalidELKHABOU_4[...]/nts/et-line.woff) (55kB)
- [waleedos.github.io/ElwalidELKHABOU_4\[...\]/jquery-2.1.0.js](https://waleedos.github.io/ElwalidELKHABOU_4[...]/jquery-2.1.0.js) (36kB)

Read less

Data amount

0/100

4 images are resized on browser side

If your images are larger than their display area, the browser will download unnecessary data (and perform unsupervised resizing).

Avoid resizing images on the browser side

Resizing images on the browser side to reduce their rendering size is not recommended.

When the browser needs to display an image on your page, it does everything it can to adapt it to its rendering surface. If the image is too large, it will reduce it.

Provide images adapted to the display dimensions to prevent unnecessary data from being sent over the network, which reduces page loading time.

And because embedded browser algorithms are not as good as those of image manipulation tools, you will get a more satisfying visual result by resizing your images upfront, rather than letting the browser do it.

Serve Responsive Images

Several methods exist, to serve images adapted to the browser regardless of screen resolution or device pixel density. We recommend reading the following resources:

- ["Responsive images" on the Mozilla Developer Network](#)
- [Picturefill, to start using the <picture> element in browsers that do not support it](#)
- [RICG, group of developers working on responsive images](#)

Don't resize the following images:

- [waleedos.github.io/ElwalidE\[...\]/img/2.jpg](https://waleedos.github.io/ElwalidE[...]/img/2.jpg) (displayed size: 270x270)
- [waleedos.github.io/ElwalidE\[...\]/g/logo.png](https://waleedos.github.io/ElwalidE[...]/g/logo.png) (displayed size: 100x100)
- [waleedos.github.io/ElwalidE\[...\]/img/1.jpg](https://waleedos.github.io/ElwalidE[...]/img/1.jpg) (displayed size: 270x270)
- [waleedos.github.io/ElwalidE\[...\]/agence.png](https://waleedos.github.io/ElwalidE[...]/agence.png) (displayed size: 214x40)

On this page, 2 images are resized by less than 40%. Several Responsive Web Design techniques are based on resizing images that are close in size to their respective rendering areas. Such resizing may therefore be appropriate, and we do not penalize them. However, we invite you to ensure that these do not affect the performance of the page:

- [waleedos.github.io/ElwalidE\[...\]/img/4.bmp](https://waleedos.github.io/ElwalidE[...]/img/4.bmp) (displayed size: 270x270)
- [waleedos.github.io/ElwalidE\[...\]/img/3.bmp](https://waleedos.github.io/ElwalidE[...]/img/3.bmp) (displayed size: 270x270)

To learn more about image optimization, feel free to [read this article on the subject](#).

Read less

Browser rendering

0/100

Defer parsing of JavaScript

JavaScript can [significantly slow down](#) a page display, especially if it is necessary to download an external script.

Defer the use of JavaScript as much as possible to provide a faster start for the page display.

How can I fix this?

First of all, distinguish what portions of your JS is critical and must be loaded as soon as possible, and put them in a specific external file. Keep this file as streamlined as possible, and defer the parsing or execution of all other JS files ([learn more](#)).

Use one of the methods below to defer parsing for external JavaScript files:

- use the [async](#) attribute;

- use the [defer](#) attribute;
- append the script to the DOM in JavaScript during the onload event;
- make sure your scripts are placed at the bottom of the page (ideally at the end of the body).

154.4KiB of JavaScript is parsed during initial page load. Defer parsing JavaScript to reduce blocking of page rendering.

- [waleedos.github.io\[...\].0.js](#) (75.8KiB)
- [waleedos.github.io\[...\].s.js](#) (42.3KiB)
- [waleedos.github.io\[...\].p.js](#) (30.5KiB)
- [waleedos.github.io\[...\].s.js](#) (5.9KiB)

Read less

Accessibility

0/100

Users should be able to specify www in the URL, or not

Some users are accustomed to access a website by adding www, and others do not.

We advise you to use a (permanent) redirect to point one of the addresses to the other.

How to fix the issue?

You should perform a 301 redirect from

https://waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/ to

https://www.waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/.

Read less

Data amount

0/100

6 images (1.0MB) are loaded too early

Load images above the fold line first, that means all the images that are visible without any scroll of the page by the visitor.

Webpage and images

Images commonly represent more than 60% of the total weight of webpages. By loading initially the only images that are visible without page scrolling, you'll reduce bandwidth consumption as for your server and your visitors. If an image has to display after any visitor's action (as scrolling), then you'd better load it on demand, when necessary (lazyloading).

How to set up lazyloading?

You can get information concerning the features and plugins proposed by your page's frameworks/CMS. You should find some easy-to-set solutions.

If you have to implement lazy-loading yourself, the simplest way may be to activate the native feature introduced by Chrome in 2019: on all targeted images, add `loading="lazy"`. The feature is [implemented by recent browsers or will be in the near future](#). In the meantime: on browsers that don't support native lazy-load, the attribute will have no effect.

```

```

Native lazy-loading, however, is the solution that offers the least control, and is sometimes far too eager, loading images that do not require to be loaded so soon ([read more](#)).

Some Javascript libraries could help you implement lazyloading with more granularity.

☁ With jQuery, you could use a plugin like [jQuery Lazy Load, dedicated to images lazyloading](#).

To better understand the challenges of lazyloading and discover other solutions, feel free to read our blog post "[Lazy Loading, faster webpages, SEO friendly](#)".

On this page, 6 images can be lazyloaded.

- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/img/title2.png
- https://waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/img/2.jpg
- https://waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/img/4.bmp
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/img/citation.png
- https://waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/img/1.jpg
- https://waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/img/3.bmp

If the early loading of some of these images is justified, although they are not immediately visible, you can add the attribute `loading="eager"` to them, which clearly specifies this behavior.

```

```

Read less
Data amount

50/100

Optimize your images

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

[Optimize the following images](#) to reduce their size by 107.3KiB (10% reduction).

- Losslessly compressing [waleedos.github.io\[...\].png](#) could save 31.8KiB (34% reduction).
- Losslessly compressing [waleedos.github.io\[...\].png](#) could save 19.3KiB (72% reduction).
- Losslessly compressing [waleedos.github.io\[...\].png](#) could save 14.4KiB (58% reduction).
- Losslessly compressing [waleedos.github.io\[...\].jpg](#) could save 12.5KiB (3% reduction).
- Losslessly compressing [waleedos.github.io\[...\].jpg](#) could save 8.6KiB (4% reduction).
- Losslessly compressing [waleedos.github.io\[...\].jpg](#) could save 8.5KiB (78% reduction).
- Losslessly compressing [waleedos.github.io\[...\].jpg](#) could save 4.9KiB (5% reduction).
- Losslessly compressing [waleedos.github.io\[...\].png](#) could save 4.4KiB (39% reduction).
- Losslessly compressing [waleedos.github.io\[...\].png](#) could save 1.7KiB (19% reduction).
- Losslessly compressing [waleedos.github.io\[...\].png](#) could save 1.2KiB (16% reduction).

Images may contain data unnecessary for their use on the web. This data can increase their size significantly. Some tools automatically remove this unnecessary data without loss of quality and thus reduce your image sizes.

Many image optimization algorithms depend on each image format. Some of them are included in graphic software like Photoshop or GIMP:

- PNG: Zopfli-png, PNGOUT, OptiPNG, AdvPNG, PNGCrush, PNGQuant...
- JPG: JPEGOptim, MozJPEG, Jpegtran, Guetzli...

[FileOptimizer](#) (Windows), [ImageOptim](#) (Mac) or [Trimage](#) (Linux) are software that combine several algorithms in one place. They will find the best possible optimization and encoding for every image, with or without quality loss.

To learn more about image optimization, feel free to [read this article on the subject](#).

Read less
SEO

0/100

The <meta> 'description' should not be empty

The page should define a unique description.

Description in search engines

The description of the page may be directly displayed in search engine results pages (SERP):

Amazon.com: Online Shopping for Electronics, Apparel, Computers ...

<https://www.amazon.com/> ▼ Traduire cette page

Online retailer of books, movies, music and games along with electronics, toys, apparel, sports, tools, groceries and general home and garden items. Region 1 ...

It allows you to control at best the entry preview in search engines, and to improve the click rate to your page. [Learn more](#).

How to define a page's description?

Use `<meta name="description" content="page description">` and place it in the `<head>` tag.

The `<meta>` description tag is empty.

Read less
Security

0/100

The Content Security Policy is missing

Protect your website from cross-site scripting (XSS) attacks by setting up a restrictive Content-Security-Policy.

XSS attacks explained

XSS attacks are a type of attack in which malicious data is maliciously added to websites. The number of vulnerabilities allowing these attacks is quite large, which is why it is as useful to prevent them as to limit their harmful effects.

You can protect your pages against these attacks and their effects by restricting execution to code portions either legitimized by the domain to which they belong or by a unique integrity token. The code that does not match this security policy will not be executed and the user will be informed.

You can learn more about [XSS attacks](#) on the Open Web Application Security Project (OWASP) Website.

Configure a "Content-Security-Policy" (CSP) HTTP header

Set up a "Content-Security-Policy" (CSP) HTTP header to prevent or limit the damage caused by an XSS attack. To specify a security policy configure your server so the response of the first resource contains the "Content-Security-Policy" HTTP header.

Here's an example:

```
Content-Security-Policy: script-src 'self' https://apis.google.com
```

In this case, only scripts coming from the current host or <https://apis.google.com> will be executed.

Read more about the CSP HTTP header [on our blog](#) or by consulting [the CSP directives specification](#).

Please, be careful, if the header is misconfigured, some of your content, scripts, or styles may be blocked. That could cause unwanted side effects. Moreover, the restrictions apply to all pages of the website. We recommend you test the different pages of your website before deploying this header in your production environment.

No Content Security Policy on this page: it is more easily exposed to XSS attacks.

Read less

Cache policy

0/100

Set a far future cache policy in 22 requests

Defining several days of cache retention for your static resources will reduce the load on your server.

The Expires header explained

Some of your resources use the Expires HTTP header to get an effective caching policy—this is a best practice. However, you should consider improving its configuration to make the most of the caching mechanisms. Here is an example of the Expires HTTP header:

```
Expires: Thu, 25 Dec 2014 20:00:00 GMT
```

When you **deploy a new version of your website, remember to rename static resources** that have been modified. If you do not change their names, your users will keep resources corresponding to the old versions stored in their caches, and they may find themselves on an unstable version of your page. For example:

```
myresource.min.20140101.js
```

Read [the Yahoo! guidelines](#) on this subject.

Recommended Expires header setting

We recommend setting the Expires HTTP header, so the date is between 2 days and 1 year.

This page contains 22 resources that **do not have a far expiration date**:

- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/css/bootstrap.css
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/style.css
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/s/font-awesome.css
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/es/css/et-line.css
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/js/jquery-2.1.0.js
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/es/js/bootstrap.js
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/hanges/js/blocs.js
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/hanges/js/gmaps.js
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/uerquery.touchSwipe.js
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/houette-agence.png
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/anges/img/logo.png
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/nges/img/title.png
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/s/img/citation.png
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/ges/img/title2.png
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/eChanges/img/1.jpg
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/eChanges/img/2.jpg
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/eChanges/img/3.bmp
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/eChanges/img/4.bmp
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/gence-banniere.jpg
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/texture-paper.png
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/e-presentation.bmp
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/mg/lines-h2-bg.png

Read less

Security

0/100

This page is exposed to "clickjacking" type attacks

Keep malicious people from integrating your pages into their websites.

Clickjacking explained

This kind of attack happens when your page gets integrated with a malicious website via <frame> or <iframe> tags. By doing this, attackers can persuade users that they are on your own page when they are not. The unsuspecting user may enter personal information that is visible on and thus vulnerable to the malicious website.

To avoid this, always indicate which domains have permission to integrate your pages.

How to prevent clickjacking?

There are two main ways to prevent that behavior.

1/ Configure a "X-Frame-Options" HTTP header. Configure your server so the main resource response includes the "X-Frame-Options" HTTP header.

Three values may be defined:

- DENY to prevent any frame or iframe from integrating the page;
- SAMEORIGIN to authorize only frames from the same domain name;
- ALLOW-FROM uri to indicate the domains allowed to integrate a page into frame (however [is not compatible with some browsers](#))

2/ Define an explicit frame-ancestors directive into a Content-Security-Policy HTTP Header. ["frame-ancestors" directive](#) is a newer, hence supported by fewer browsers, approach that will allow your website to authorize multiple domains instead of only the current origin. Setting this directive to 'none' is similar to X-Frame-Options: DENY.

Which approach to choose? If you only have the current domain to allow, do set up the two security features, for better compatibility with older browsers. If you want to allow multiple domains, you should only implement the frame-ancestors security policy.

Neither the "X-Frame-Options" HTTP header nor the "frame-ancestors" security police are configured on this page; you are more likely to be exposed to clickjacking.

Read less
Accessibility

0/100

1 empty element can disturb screen readers

Some tags, such as <p>, , <button>, <legend>, <caption>, <figcaption> and <quote> elements are not allowed to be empty. Empty tag make it difficult for some screen readers to understand the page.

Either add aria-hidden attribute to the empty element or remove it from your page entirely.

```
<p aria-hidden="true"></p>
```

The following element is empty:

-
-

Read less
SEO

0/100

robots.txt file should be defined

Indicate to web crawlers which URLs should be explored on your website.

The robots.txt file

Place your robots.txt file in the root of the website. It will be interpreted by the robots in charge of your SEO. It delivers instructions to specify the pages to explore by robots, like Google bot.

Note that these directives are indicative only. A lambda robot will not be blocked by the restrictions specified by the file.

We have not detected the robots.txt file on this website, you should define one:

- <https://waleedos.github.io/robots.txt>
-

Read less
Accessibility

0/100

Specify a consistent label on your links

A link is more attractive if the text describes what is behind it. You can also take the opportunity to use keywords in these texts, to improve your page's SEO.

Describe the link in your `<a>` tag, rather than indicating the link itself. Example: `My description`

The contents of the following links are not relevant:

- `voiture.com`
 - `pizza.com`
 - `matoiture.com`
 - `immobilierseo.com`
 - `annuaireagence.com`
 - `annuaireseo.com`
 - and 15 other(s)
-

Read less
Quality

0/100

The !important declaration is used 32 times

If you abuse of this declaration, you should consider a review of your CSS code. We tolerate 10 occurrences of the !important declaration before penalizing your score.

Here are the !important detected:

[waleedos.github.io/ElwalidELKHABOU_4_210721\[...\]oreChanges/style.css](https://waleedos.github.io/ElwalidELKHABOU_4_210721[...]oreChanges/style.css)

- `a, button {outline: none!important}` (line 13, col 5)
- `.bg-center, .bg-l-edge, .bg-r-edge, .bg-t-edge, .bg-b-edge, ...` (line 69, col 5)
- `.bg-center, .bg-l-edge, .bg-r-edge, .bg-t-edge, .bg-b-edge, ...` (line 70, col 5)
- `.bg-center, .bg-l-edge, .bg-r-edge, .bg-t-edge, .bg-b-edge, ...` (line 71, col 5)

- .bg-center, .bg-l-edge, .bg-r-edge, .bg-t-edge, .bg-b-edge, ... (line 72, col 5)
 - .navbar-toggle:hover {background: transparent!important} (line 346, col 5)
 - .nav > li > .dropdown a {background: none!important} (line 407, col 5)
 - .dropdown-menu .dropdown span {margin: 6px -5px 0 0!important} (line 434, col 5)
 - and 24 others
-

Read less
Security

0/100

Disable the auto detection of resource type

Protect yourself from malicious exploitation via MIME sniffing.

MIME-Type sniffing explained

Internet Explorer and Chrome browsers have a feature called "MIME-Type sniffing" that automatically detects a web resource's type. This means, for example, that a resource identified as an image can be read as a script if its content is a script.

This property allows a malicious person to send a file to your website to inject malicious code. We advise you to disable the MIME-Type sniffing to limit such activity.

Chrome has been working on a feature called [Site Isolation](#) which provides extensive mitigation against exploitation of these types of vulnerabilities. Site Isolation is more effective when MIME types are correct.

How to prevent MIME-Type sniffing

Configure a "X-Content-Type-Options" HTTP header. Add the "X-Content-Type-Options" HTTP header **in the responses of each resource**, associated to the "nosniff" value. It allows you to guard against such misinterpretations of your resources.

On this page, **you should configure the following resources**, that risk being misinterpreted:

- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/css/bootstrap.css
 - https://waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/style.css
 - waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/css/font-awesome.css
 - waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/css/et-line.css
 - waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/js/jquery-2.1.0.js
 - waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/js/bootstrap.js
 - https://waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/js/blocs.js
 - https://waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/js/gmaps.js
 - waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/js/jquery.touchSwipe.js
-

Read less
SEO

0/100

This page does not specify a breadcrumb for search engines

The breadcrumb enables to visually enhance the results matching your website during a research. On Google, you can find it instead of the URL for example:

[Tim Minchin: how my beat poem took the world by Storm ...](#)

[www.theguardian.com](#) > [Arts](#) > [Books](#) > [Poetry](#) > The Guardian >

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extract from the introduction to *Storm* by [Tim Minchin](#) with DC Turner and ...

On a search made through a desktop device, the breadcrumb only replaces the URL if it is defined on the page.

About the mobile search, Google has been consistently displaying the breadcrumb since April 2015. If you do not define a breadcrumb, Google will try to generate one for the page, with uncertain results. Define a breadcrumb for your page to ensure proper display in Google and other search engines.

Defining its own breadcrumb

You must define your breadcrumb using one of the accepted implementations ([see Google recommendations](#)).

```
<script type="application/ld+json">
{
  "@context": "https://schema.org",
  "@type": "BreadcrumbList",
  "itemListElement": [{
    "@type": "ListItem",
    "position": 1,
    "name": "Books",
    "item": "https://example.com/books"
  }, {
    "@type": "ListItem",
    "position": 2,
    "name": "Authors",
    "item": "https://example.com/books/authors"
  }, {
    "@type": "ListItem",
    "position": 3,
    "name": "Ann Leckie",
    "item": "https://example.com/books/authors/annleckie"
  }, {
    "@type": "ListItem",
    "position": 4,
    "name": "Ancillary Justice",
    "item": "https://example.com/books/authors/ancillaryjustice"
  }
  ]
}
```

On this analyzed page, we couldn't find a breadcrumb.

Read less
SEO

0/100

3 images do not use a standard format

The images that use a non-standard format may not be indexed by search engines.

Only these image formats are considered standard on the web: jpeg, jpg, png, gif, svg, ico, webp. You should consider an alternative to any other format.

Moreover, remember to treat the text around your images: some search engines analyze approximately the 10 words preceding and following the image in order to add a context to the image.

You should change the format of the following resources:

- https://waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/img/3.bmp
- https://waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/img/4.bmp
- https://waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/img/image-de-presentation.bmp

Read less

Data amount

85/100

Use a better file format for your fonts

Be sure to deliver the lightest possible font format.

Declaring several font formats

Web browsers such as Firefox, Chrome, Safari, Internet Explorer, and Opera do not support the same font formats. Your goal is to use the lightest possible format for each platform. When you use a font, you can specify several formats via the `@font-face` CSS instruction. This enables the browser to use the first compatible format that it supports.

How to declare your font formats?

Check if your formats are well ordered in the `@font-face`'s `src` property. Here's an article about this topic to help you [to determine the right order to declare your fonts](#). **The preferred order of webfont formats: EOT, WOFF2, WOFF, TTF, and SVG.**

The following resource is fetched, however you should consider using the WOFF2 format:

- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/fonts/et-line.woff

Read less

SEO

0/100

Avoid using underscores or spaces as word separator in the URL

You should prefer the use of dashes in the URL.

URL and SEO

The words in the URL are among the many factors impacting the SEO: if you search the words web performance in a search engine, one criterion used by Google will be to check if the URL contains the words performance and web.

But for Google, underscores are not word separators: If your URL contains web_performance it will not help to highlight the page on the query web performance (web_performance is regarded as a unique word).

This behavior is however not common to all search engines. For example, Bing does not differentiate dashes and underscores.

Please note that Google does not penalize you for using an underscore in the URL.

How to resolve the issue?

We recommend using - instead of _ on your new web pages.

This is more complex fix the issue on existing web pages, such as the one analyzed here, because you can't just rename the URL (you will lose all your SEO efforts). It is then necessary to set up a permanent redirect (HTTP code 301) retaining the old URL, that forwards to the new URL. Beware: many redirects on your site can also affect the visibility of your web pages. So do not use redirects if the number of relevant pages remains limited.

This URL contains 2 underscores _.

Read less
SEO

0/100

Your site doesn't use Open Graph properties

You can help social networks understand information related to the page by using Open Graph properties.

The Open Graph properties explained

Several properties allow social networks to learn more about the page's content. We recommend using at least the required properties:

- `<meta property="og:title" content="The title" />`
- `<meta property="og:type" content="The type" />`
- `<meta property="og:url" content="http://url.com/" />`
- `<meta property="og:image" content="http://image.jpg" />`

This information is used to improve links between your page and various social networks, including Facebook. [Read more about Open Graph here.](#)

This page does not provide information to social networks.

Read less
Data amount

0/100

The favicon is too heavy

The favicon must be as lightweight as possible.

The favicon on the web

This small image allows you to display a logo on the browser tabs for instance.

How to fix the issue?

A favicon should be < 10kB.

The favicon (https://waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/favicon.jpg) is too heavy (10kB).

Read less

jQuery

75/100

Avoid excessive specificity on jQuery selectors

You are using too specifics jQuery selectors. It could impact performance: [see more information](#). Here is an example of a good use of the library:

```
$( ".data table.firstClass td.secondClass" );  
// Better: Drop the middle if possible  
$( ".data td.secondClass" );
```

We found some too specifics selectors on your website:

[waleedos.github.io/ElwalidELKHABOU_4_21\[...\]hanges/js/blocs.js](https://waleedos.github.io/ElwalidELKHABOU_4_21[...]hanges/js/blocs.js)

- `$(".blocsapp-special-menu blocsnav li")`
-

Read less

Quality

76/100

Separate the CSS styles from the HTML tags

Separating HTML tags and CSS directives improves code readability and promotes factorization.

How to define CSS styles

CSS styles are used to format the page. You can use one of three main methods to define them:

- declare styles in a specific CSS file;
- declare "inline" styles (<style> tag in your HTML template);
- declare styles with the "style" attribute of a HTML tag.

How can I improve my page?

We recommend grouping your CSS styles in `<style>` tags or in separate files. That way, the HTML is only responsible for providing the structure of the page, and its layout is outsourced. The `<style>` attribute should only be generated by some JavaScript code (e.g., if you need to know the screen size).

This page uses 3 style attribute(s):

- `<div class="keywords" style="color:#cccccc;font-size:1px;">`
- `<div class="keywords" style="color:#cccccc;font-size:1px;">`
- `<div class="keywords" style="color:#F3976C;">`

Read less

Data amount

90/100

Minify JavaScript

Compacting JavaScript code can save many bytes of data and speed up downloading, parsing, and execution time.

[Minify JavaScript](#) for the following resources to reduce their size by 10.1KiB (18% reduction).

- Minifying [waleedos.github.io\[...\].js](#) could save 5.4KiB (16% reduction).
- Minifying [waleedos.github.io\[...\].s.js](#) could save 3.5KiB (26% reduction).
- Minifying [waleedos.github.io\[...\].p.js](#) could save 1.2KiB (12% reduction).

There are many tools to minify JavaScript files. You can try [YUI Compressor](#) or [JSMIn](#), recommended by Google.

Read less

Did you know?

Security

SSL Certificate

Your SSL certificate will expire on 04/14/2022. Update your certificate before that date.

What happens if my certificate expires?

Letting a certificate expire can have consequences for end users who will then see many error or alert messages while browsing the site, warning them of possible frauds, identity thefts or traffic interceptions. These alerts can have a very negative impact on the user's perception of the visited domain.

Read more
Quality

No HTML code is commented

Comments allow you to detail a portion of code and help you navigate more efficiently in the DOM. However, make sure no sensitive information is exposed in your comments.

Well done, none of your comments contains HTML code.

Read more
Accessibility

No <noscript> tag is detected

When a web page uses scripts, it is advised to set at least one noscript tag. It is required to display a message when JavaScript is disabled by the user.

```
<script type="text/javascript">
  document.write('Hello World!')
</script>
<noscript>Your browser does not support JavaScript!</noscript>
```

Read more
jQuery

Additional information about your jQuery performance

jQuery is the most used JavaScript library. Upgrade your website performance respecting the jQuery best practices. We recommend that you learn the basics of the jQuery performance, reading the following link: <http://learn.jquery.com/performance/>.

Read more
SEO

This page contains 32 links

Two kind of links exist:

- **Internal links** that refer to pages with the same domain name;
- **External links** that point to other websites (must be relevant and point towards quality content).

If you reference many links, you can ask the SEO crawlers to consider only some of them, by adding the rel=nofollow attribute to the irrelevant ones (e.g., advertisements).

Here is the distribution of 32 links present in the page:

- 32 internal links (100,00%)
- No "follow" external link (0,00%)

- No "nofollow" external link (0,00%)

Read more
Security

26 resources on this page are for public use

By default, the browser accepts to perform AJAX requests, or to retrieve web fonts, only on the same domain name of the page. So a font provided by toto.com can only be used by the pages of toto.com. This prevents misuse of your resources by any site.

Some resources are public, and explicitly want to be available to everyone (eg Google Fonts). In this case, the HTTP header Access-Control-Allow-Origin can be used with the value "*". You should, however, use this property if your resource has aimed to be used by the greatest number. Otherwise, we recommend that you keep the default, or set a specific domain name in the "Access-Control-Allow-Origin" HTTP header.

You should be aware of the following resources, that use a Access-Control-Allow-Origin: * HTTP header. Make sure they are actually intended to be used by pages from all domain names:

- https://waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/css/bootstrap.css
- https://waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/style.css
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/css/font-awesome.css
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/css/et-line.css
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/js/jquery-2.1.0.js
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/js/bootstrap.js
- https://waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/js/blocs.js
- https://waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/js/gmaps.js
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/js/jquery.touchSwipe.js
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/img/la-chouette-agence.png
- https://waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/img/logo.png
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/img/title.png
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/img/citation.png
- waleedos.github.io/ElwalidELKHABOU_4_21072021/beforeChanges/img/title2.png
- and 11 others

Read more
Quality

1 CSS property is overridden

Generally, it is unnecessary to define 2 times the same property within the same rule: the second one overrides the first.

This may affect the readability of CSS code. Eliminate unnecessarily overridden properties also reduce the file size.

How to improve it?

Remove one occurrence of the duplicated property. For example, the following properties:

```
.myClass {  
  margin: 20px;
```

```
...
margin: 10px;
}
```

Should be replaced by:

```
.myClass {
margin: 10px;
}
```

The following files define the same property several times in a single rule.
Note that [CSS fallbacks](#) can justify a duplicated property.

Make sure that the following properties are duplicated on purpose:

[waleedos.github.io/ElwalidELKHABOU_4_21072\[...\]oreChanges/style.css](https://waleedos.github.io/ElwalidELKHABOU_4_21072[...]oreChanges/style.css)

- .navbar-brand {font-weight: 600} (line 300, col 5)

Read more
Number of requests

Resources distribution by domain

This page loads data from 1 domains. This best practice retrieves the following metrics for each of these domains:

- Loading Time (Cumulative): total time spent to load all the resources
- Server Time (Cumulative): total time spent to retrieve the responses from the server (TCP connection + wait for first byte)
- Weight: data amount loaded
- Number of requests

Here is the list of all the domains used by the page:

Domain	Time (ms)	Server Time (ms)	Weight (kB)	Requests
waleedos.github.io	18378	4969	3980	26

Read more
Security

Do all third-party resources deliver the right content?

If this page loads resources from third parties, you should ensure their integrity.

SubResource Integrity (SRI)

Use SRI to ensure that a third-party resource has not been tampered. Add the integrity attribute to <script> and <link> tags loading this kind of resource. Example:

```
<script src="https://exemple.com/exemple-framework.js"
  integrity="sha384-oqVuAfXRKap7fdgcCY5uykM6+R9GqQ8K/uxy9rx7HNQlGYl1kPzQho1wx4JwY8wC"
  crossorigin="anonymous">
</script>
```

The integrity attribute value is equal to the base64-encoded hash (SHA) of the resource. The browser compares this hash with the downloaded content in order to determine if the resource matches the expected content.

You can create the SHA thanks to several tool. In command line, you can use openssl. You can also test some online tools, as srihash.org or report-uri.io. [Learn more about SubResource Integrity](#).

Read more

Well done, these best practices are respected

Browser rendering

100/100

Your HTML response is not too heavy

Why reduce the code amount of a page?

Before a web page can be displayed, the browser must, among other things, download it, parse it and model it into a document that can be understood by the rendering engine. If the amount of code contained in the page is too large, these steps are slowed down and the rendering is delayed.

How to reduce the amount of code?

Your HTML response should contain only the information that is immediately necessary to display the visible area of the page. Move inline information to external files (JS for scripts, CSS for styles, asynchronous queries for additional content) and simplify the HTML structure of your page.

Read more

Browser rendering

100/100

No Mutation Events detected in your scripts

To capture DOM events, do not use Mutation Events. Alternatives exist.

Good concept, bad implementation

When developing complex JavaScript applications, you may need to know when the DOM node tree has changed. Introduced in 2000 in the [DOM, Level 2 specification](#) to provide a solution to this need, Mutations Events are browser-initiated events that let you know when a DOM node is added, removed, or deleted.

Mutation Events, however, present major performance problems. First, they are synchronous, i.e. they prevent other events in the queue from being fired (if those events are used to update the UI, this will cause some lag). Second, they are implemented as browser events, thus traverse the DOM tree from the targeted

HTML element to the parent element which listens for the event, clogging the JavaScript thread along the way.

Mutation Events have been deprecated in 2016 in the [DOM, Level 3 specification](#).

Mutation Observers to the rescue

If you need to watch for changes being made to the DOM tree, you should use the `MutationObserver` interface ([DOM4 Living Standard](#)). Mutation Observers are asynchronous, processed in batches, and observe specific or all changes to a node. They are more efficient in terms of CPU usage than browser events and therefore cause fewer to no UI freeze.

[Learn how to use Mutation Observers \(Mozilla Developer Network\)](#).

Read more
SEO

100/100

Your `` tags use an alt attribute

Moreover, the `alt` attribute is also an important criterion for SEO. Indeed, search engines crawlers cannot parse graphic contents. That is why they use the alternative text to return consistent results, [like in Google images](#).

```

```

The `alt` attribute is used in several cases unrelated to SEO:

- When a screen reader is in use for accessibility purposes;
- While image is loading, particularly for slow connections;
- When the image file is not found.

You have 9 `img` tags and they all have the `alt` attribute.

If you cannot think of a suitable description for an image, set the text to an empty string `""`. Make an effort to ensure that as many images as possible on the page include a relevant alternative. [Read the W3C recommendations here](#).

Read more
Cache policy

100/100

You do not use too long inline scripts

Any script with a significant size should let the browser cached them in order to reduce loading time/improve performance of your returning visitor.

Inline scripts / cache policy

"inline" scripts allow to integrate easily small portions of scripts directly in the HTML code. Example:

```
<script type="text/javascript">
  (function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=...,'/analytics.js','ga');
  ga('create', 'UA-11111111-1', 'mywebsite.com');
</script>
```

By doing so, you avoid making a request to the server to retrieve the resource. So inline scripts represent a performance gain if you want to integrate small scripts.

However, once a script has a fairly substantial size, we advise you to outsource it and perform a request to retrieve it. So you will benefit from the cache mechanism.

What should I do?

Outsource your scripts with more than 1500 characters in one or more separate files.

Read more
SEO

100/100

This page defines <h1> and <h2> tags

We recommend putting page keywords in at least the h1 and h2 tags. Search engines use the h1, h2, and h3 tags for SEO purposes.

This page contains:

- 1 <h1> element(s)
 - 2 <h2> element(s)
 - 7 <h3> element(s)
-

Read more
Compliance

100/100

No frameset, frame and noframes tags detected

These tags are obsolete, due to several issues related to the navigation consistency, SEO or browsers' bookmark features for example.

None of these tags is detected on this page.

The use of the [iframe](#) tag is preferred.

Read more
Compliance

100/100

No Java applets detected

Java applets are considered obsolete in 2015. HTML5 is powerful and more widely supported. Using Java applets can lead to compatibility issues and may send negative signals to your users (e.g. the browser indicating that content was blocked because it could be dangerous).

Congratulations, this page doesn't contain Java applets.

Read more
SEO

100/100

This page specifies a <title> tag

The page should define a unique title (using a <title> tag).

Use of titles by search engines

Once properly configured, the page title can be displayed in the search engine results page:

Amazon.com: Online Shopping for Electronics, Apparel, Computers ...

<https://www.amazon.com/> ▼ Traduire cette page

Online retailer of books, movies, music and games along with electronics, toys, apparel, sports, tools, groceries and general home and garden items. Region 1 ...

Using a suitable title is a major criterion for SEO. It allows you to control at best what is displayed in search results pages and determine the keywords you want your site pops out.

How to define the title of a web page?

The title of the page is specified into the <title> tag, which must be placed into the <head> tag, at the beginning of the code.

This page defines the title trough the title tag.

Here is the page's title:

.

Read more
Compliance

100/100

Do not use <bgsound> tag

No bgsound tag detected. This is a good practice: this element is not a HTML standard. [See more information.](#)

Use the [audio](#) tag to deliver audio content on your page.

```
<audio src="my-audio-file.ogg" autoplay>
  Your browser doesn't support the audio element.
</audio>
```

Read more
SEO

100/100

You do not use query strings in the URL

This URL does not contain any parameter.

A URL should be as readable as possible. For instance, `http://example.com?userId=332&group=MyGroup` is less readable than `http://example.com/mygroup/me`.

Read more
Compliance

100/100

You do not use links to Word documents

`.doc` and `.docx` documents do not guarantee compatibility with all major operating systems. It's recommended to use PDF documents.

This page contains only standard links.

Read more
jQuery

100/100

No DOM manipulation inside loops detected

Working directly with the DOM has a cost. If you have to add elements to a node, you should prefer to append them once rather than one by one.

Well done, none of your loop contains a jQuery append method.

Read more
Data amount

100/100

All your resources are served from a consistent URL

Resources with identical content should be served from the same URL to avoid duplicate downloads and additional requests.

Different URLs for the same resource

If you use different URLs to serve identical content, browsers have to request this content from the server several times, and your page will trigger unnecessary requests for data. If the same URL is used, the browser will only send one request and will use the response wherever the resource is requested. You should also use the same URL to reference the same content on several pages to benefit from the cache mechanism.

How to fix this?

Serve each resource from a unique URL. If you have to request the same resource several times, the same URL should be used to retrieve it every time.

Read more
Accessibility

100/100

This page defines a lang

Perfect. Your page defines a lang attribute that will allow screen readers to correctly understand your website.

Read more
Number of requests

100/100

No redirect detected

The redirects trigger avoidable roundtrips on the network and increase the page loading time.

HTTP redirects

The HTTP redirects inform the browser that the desired content is accessible from a different URL. They trigger a new HTTP request to retrieve the target resource and return an HTTP code between 300 and 399. [See the specifications](#) of HTTP redirects.

How to solve the issue?

Allow the user to directly access your content without redirects, or determine and improve what causes these excessive loading times on your redirects. [See recommendations from Google](#).

This page does not use redirects before accessing the right content.

Read more
Number of requests

100/100

Only reachable resources are requested

You should avoid requesting unreachable resources.

All of the page's resources are reachable.

These errors can affect content on and behaviors of your website and cause unnecessary network traffic, which affects the loading time of your page.

[Read more](#)
[Cache policy](#)

100/100

The 'Vary: Accept-Encoding' header is defined

The Vary: Accept-Encoding header allows to cache two versions of the resource on proxies: one compressed, and one uncompressed. So, the clients who cannot properly decompress the files are able to access your page via a proxy, using the uncompressed version. The other users will get the compressed version.

[Read more](#)
[Browser rendering](#)

100/100

You specify a character set in the response HTTP Header

Specify the character set used in the **Content-Type** HTTP header allows the browser to parse immediately the page.

When the browser receives bytes from your server, it needs to identify the collection of letters and symbols that were used in writing the text that was converted into these bytes, and the encoding used for this conversion, in order to reverse it. If no information of this kind has been transmitted, the browser will try to find recognizable patterns within the bytes to determine the encoding itself, and eventually try some common charsets, which will take time, delaying further processing of the page.

How to specify a charset in the Content-Type header?

In the following explanation, we will consider UTF-8 as the targeted character set but please remember that the character set declared in your Content-Type HTTP Header must reflect the character set used to encode the file, which may not be UTF-8.

On **Apache 2.2+**, the configuration of UTF-8 as a default character set for your text/plain and text/html files involves the `AddDefaultCharset` directive:

```
AddDefaultCharset utf-8
```

For other types of files, you'll need the `AddCharset` directive:

```
AddCharset utf-8 .js .css ...
```

On **nginx**, you'll need to make sure that the `ngx_http_charset_module` is loaded, then use the `charset` directive.

```
charset utf-8;
```

Here too, it is possible to refine the scope so that other types of files than `text/html` are delivered in `utf-8`, using the directive `charset_types`:

```
charset_types text/html text/css application/javascript
```

[Learn more about why and how to use the meta charset tag and the Content-Type header](#)

Read more

Data amount

100/100

You do not need to minify the HTML resources

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

You get 100/100, while your resources are not minified? It means that we considered that the gains provided by the minification process were not significant enough to be reported.

Read more

Browser rendering

100/100

You do not use CSS @import

Using CSS `@import` allows to add external stylesheet. In fact, browsers cannot download them at the same time, this may add a delay to the rendering of the page. It is better to use the `link` tag. [See more information](#).

Read more

Quality

100/100

You provide a favicon

Well done, you defined a favicon on this page.

Favicon is a small image providing an icon to a website. It's located in the root of your server and the browser will always request it. It is better not to respond with a 404 HTTP code (not found).

Moreover, this file will be asked on every requested web page, so make it cacheable: the client will request it only once. [See more information](#).

Read more

Compliance

100/100

No deprecated attributes are detected in the <body> tag

Some layout attributes are deprecated in HTML 5: `alink` / `background` / `bgcolor` / `link` / `text` / `vlink`

Congratulations, this page doesn't use deprecated attributes in the body tag.

Prefer using CSS instructions instead.

Read more

Data amount

100/100

Compression is enabled

You have compression enabled. Learn more about [enabling compression](#).

Read less

Data amount

100/100

Your CSS resources are minified or don't need to be

Compacting CSS code can save many bytes of data and speed up download and parse times.

[Minify CSS](#) for the following resources to reduce their size by 1.6KiB (8% reduction).

- Minifying [waleedos.github.io\[...\].css](#) could save 1.6KiB (8% reduction).

There are many tools to minify CSS files. You can try [YUI Compressor](#) or [cssmin.js](#), recommended by Google.

If you want to know more about the [CSS minification, do not hesitate to read this article on the subject!](#)

Read more

Accessibility

100/100

No 'refresh' <meta> tag

It is not recommended to automatically force a page refresh. This behavior disturbs users who are not able to control it.

This page does not use meta refresh tag. This is a best practice.

Read more
Security

100/100

This page only uses secure content

This page was transmitted over the HTTPS protocol, and all resources are fetched using the HTTPS protocol. So there is no Mixed Content vulnerability.

For further information on Mixed Content, you can read [this article on this subject](#).

Read more
Quality

100/100

You do not gzip/deflate PNG images

Compression has a cost, on the server and the client browser. You should enable it only if it is effective.

PNG and compression

PNG images does not support gzip compression. It is useless to perform compression operations on server side, and decompression on client side for this kind of files.

This page does not compress images. This is a best practice.

Read more
Number of requests

100/100

You do not use too much "prefetch" on the links

No resource is prefetched on this page.

You should limit the number of prefetched requests to avoid network congestion. Identify your users' behavior to prefetch the most requested resources.

Note that some browsers automatically block the number of prefetched resources. For instance, Internet Explorer 11 limits this mechanism to 10 requests.

Read more
Browser rendering

100/100

You do not use a useless "http-equiv" <meta> tag

HTTP headers are more efficient than the http-equiv meta tags.

The `<meta http-equiv="">` tags

The http-equiv meta tags provide the web browser with information similar to HTTP headers. For example, defining the meta `<meta http-equiv="content-type"/>` is the same as sending the HTTP Content-Type header.

There are two disadvantages in using http-equiv meta tags:

- Going through the meta requires to interpret the beginning of the HTML page, which is slower than going through the HTTP headers in terms of performance
- If the HTTP header is already present, the meta is ignored

In which cases are the `<meta http-equiv="">` useful?

Only one case can justify the presence of these meta tags: if you don't have access to the configuration of your server, and that is to say to the HTTP headers.

However, we recommend that you use a configurable server so that you can establish the most efficient site possible.

This page does not contain a http-equiv meta tag. That's a best practice.

Read more
Accessibility

100/100

No empty "src" attribute detected

The "src" attributes link the current page to other resources. There is no justification for using them with empty values.

All your src attributes precise a target. That's a best practice.

Read more
Browser rendering

100/100

This page uses an appropriate number of DOM elements

The number of DOM elements influences the complexity of the webpage and DOM access in JavaScript.

A well-designed webpage can offer rich content while maintaining a reasonable number of DOM elements.
[Read more about this here.](#)

We recommend creating pages that contain less than 1000 DOM elements.

There are 191 DOM elements on this page.

Read more
Compliance

100/100

No BOM (Byte Order Mark) detected

Some parsers are not able to interpret a page with a BOM in it.

What is the BOM?

The BOM is a hidden character located at the beginning of the page, aiming at helping to determine what encoding the page uses. But the best practices of the web prompt the use of the HTTP Content-Type header to define the encoding used by the page. The BOM has no reason to be in this context.

Apart from the fact that this type of indicator is useless on the web, it can lead to a certain number of issues. This is the case for example of the W3C validation that is going to try to interpret the first character which corresponds to the BOM. Then, the document will not be valid.

No resource uses a BOM.

Read more
Cache policy

100/100

You specify resource cache expiry headers

Cache headers (Cache-Control, ETag, formerly Expires) are essential for an effective cache policy, and will greatly impact the loading time of your pages during future visits.

The Cache-Control header

Each resource can define its caching rules via the Cache-Control HTTP header. The max-age property defines the duration of the caching (in seconds), and can be accompanied by instructions for caching resources on proxy servers, located between the browser and the server issuing the resource.

The following header indicates that the response can be cached on proxy servers and on the browser (public, as opposed to private where only the browser is allowed to do the caching) for two hours:

```
Cache-Control: private, max-age=7300
```

If some of your resources do not need to be cached, you can also indicate this explicitly:

```
Cache-Control: no-store
```

The Expires header

Expires is the earliest HTTP header for managing resource caching, and will help you manage the cache for [browsers that do not support Cache-Control](#).

When using the Expires header, you can define an expiry date for each resource: as long as the date has not expired, the browser will either store or use the resource stored in the cache.

The expiry date of the resources is set using the Expires HTTP header:

Expires: Thu, 25 Dec 2014 20:00:00 GMT

You can specify a long expiry date for static resources (maximum 1 year), and a shorter expiry date for resources that may change (minimum 48 hours).

Reassessment of resources when the cache expires

If no cache policy is set for a resource or the duration of its caching is exceeded, the browser makes a new request to download a required resource.

To prevent the browser from downloading a resource that has not been modified since it was cached, use the ETag HTTP header. Each version of a resource can be associated with a validation token. When a resource's cache expires, the browser will ask the server again for the resource, passing this token with the If-None-Match HTTP header containing the token value. The server will compare its version of the token with the one provided. If the resource has not been modified, the server will allow the browser to renew the caching of the resource without downloading the resource again, via an 304 "Not Modified" HTTP response.

Deliberate cache invalidation

When releasing a new version of your site, remember to rename static resources that have been modified (versioning), in order to force browsers to download these new versions, instead of using cached resources, to prevent users from finding themselves in an unstable version of your page. For example:

maresource.min.20140101.js

To learn more about HTTP caching, please see [Google's recommendations](#).

Congratulations! Your resources are cached.

Read more
SEO

100/100

Your <title> tag is an appropriate length

This page defines one title which contains less than 75 characters ([see more information](#)):

.

The longer your title is, the more your chances are to see the search engines to truncate it or even to select another one from your page content.

Read more
Browser rendering

100/100

You don't execute the same script several times

A library or an external script is usually intended to be called once per page. However, the use of widgets can lead to several useless executions.

Duplicate scripts

It is common to see scripts used multiple times on the same page. The most common cause is the integration of social network widgets. It can be useful to find them several times on the page. That is not a bad practice. However, you should be careful that those scripts don't slow down your page.

What happens when a script is included 2 times in the code? How many times is it loaded? Parsed? Executed?

Most modern web browsers download only once a script included 2 times. An exception persists: Firefox, which will load the resource as many times as mentioned if no effective caching policy is configured.

Apart from this exception, performance issues come during the parsing and execution of the scripts. Indeed, if a script is placed three times in the code, it will be parsed and executed 3 times, on all browsers.

Do not hesitate to [read this article on that topic](#).

How to fix it?

There is a solution to use a script several times without parsing and executing more than once. You need to write some JavaScript code that checks if the script is present. If the script is already included, it just uses it, otherwise it injects it and uses it.

Consider the following example with the Facebook widget, described in the article. Whenever you want to integrate this functionality into your page, it is necessary to include the following code:

```
(function(d, s, id){
  var js, fjs = d.getElementsByTagName(s)[0];
  if (d.getElementById(id)) {return;}
  js = d.createElement(s); js.id = id;
  js.src = "//connect.facebook.net/en_US/sdk.js";
  fjs.parentNode.insertBefore(js, fjs);
}(document, 'script', 'facebook-jssdk'));
```

The bold line checks the presence of the script in the document. So the script is included, parsed and executed only during the first call in the page. Other calls will fall in the case of the bold line, and therefore will just use the script that is already included and executed.

Read more
Quality

100/100

The extensions of your resources are consistent

The extension of a resource allows to identify easily its content type. You have no reason to indicate a different extension of the actual content type of the resource.

For instance, the file resource .js must use a Content-Type HTTP header equal to application/javascript. You can check the Content-Type HTTP header value using a debugger tool (e.g.: DevTools on Chrome).

Read more

Quality

100/100

All resources define their content type

Each resource should define its content type in order to facilitate their interpretation by web browsers.

You have no reason to hide the type of a resource.

We advise you to set the "Content-Type" HTTP header on every resources of the page.

Read more

Data amount

100/100

This page does not send cookies > 100kB

Keep the size of cookies as low as possible to minimize the impact on the loading time.

HTTP cookies are used to track a user to customize the page according to their profile. They are sent as an HTTP header from the web server to the browser. Then, each time the browser accesses to the server, it sends a request containing the cookie received at the first response. [See more information](#).

Read more

Data amount

100/100

This page does not send too many cookies

Keep the size of cookies as low as possible to minimize the impact on the loading time.

HTTP cookies are used to track a user to customize the page according to their profile. They are sent as an HTTP header from the web server to the browser. Then, each time the browser accesses to the server, it sends a request containing the cookie received at the first response. [See more information](#).

Read more

Compliance

100/100

Your characters are encoded in UTF-8

Your content is readable by the largest number of web users.

Encoding of characters

The encoding of characters indicates to the web browser how to interpret the bytes of the web page in order to convert them in readable characters by the user. Lots of encodings exist so that all the characters specific to each language are represented. Be aware that the supported groups of encoding are different from an engine to another one. If you ever use an encoding too specific, a lot of web users won't be able to accurately interpret the page.

Why choosing the UTF-8?

The UTF-8 is known for being an encoding supported by almost every web user, and taking into account a large range of characters. Its universality is then particularly well suited to the web environment.

Read more

Data amount

100/100

7 images use the PNG format in the right way

The choice of the right format for an image allows to reduce its weight.

The PNG format

The PNG image format is intended to the images requiring the transparency, or else to the small images having little details and colours.

Prefer the JPEG format...

The main problem of PNG format is to not support quality loss. Indeed, a format such as JPEG offers to "downgrade" the quality of the image without being perceived by the user. Doing so, you can reduce the quality of the image of [about 25%](#) without the user realizes it.

An image with an consequent weight will be therefore better compressed by using the JPEG format.

...or the PNG-8 format

In the case where your image necessarily requires using the transparency mechanism, not borne by the JPEG format, you should convert your "standard" PNG image, into PNG-8. This format, based upon a 256 color palette maximum allows to decrease the weight of the image without significantly affecting its overall quality. Tools such as [pngquant](#) or else [tinypng](#) will support you in this procedure.

At last, if the quality given by the PNG-8 format is not appropriate for your image, you can get information on [the possible advanced technics](#) to get this behaviour without having an image in PNG format. For example, it is possible to halve your image in 2 JPEG images, one including the transparency data and the other one including the data related to the colours, and to gather the image on the customer's side with a CANVAS element.

For further information, please visit [this article about image compression](#).

The choice of the PNG format on the images of this page doesn't have negative effect.

Read more

Security

100/100

Your server only communicate in HTTPS with your web users

Take precautionary measures against attacks like "[man in the middle](#)" by making sure to only communicate in HTTPS with the server.

The HTTP Strict Transport Security (HSTS) Header

When you communicate with a server through a secure connection, every sent request towards this server should use the HTTPS protocol. The HTTP HSTS header allows to indicate to the browser that all the requests sent to the domain concerned must be done via HTTPS. If the URL is presented under "http://...", the web browser is automatically going to replace it by "https://...".

However, we advise you to not set this header unless your entire website serves its resources in HTTPS.

For further information, you can [read this article](#).

This page defines a HSTS header.

Read more

Number of requests

100/100

None of your images uses only one color

One request to an image composed of a unique color unnecessarily increases the data amount transmitted on the network.

Fetching an image composed of a single color is useless. CSS styles can achieve the same result in a more efficient way.

For instance, to draw a simple circle, you can use the following code:

```
#myElement {  
    background:#ff0000;  
    border-radius:50%;  
    width:160px;  
    height:160px;  
}
```

All the images of this page are composed of several colors.

Read more

SEO

100/100

None of your titles are empty

<h1>, <h2> and <h3> tags should contain keywords related to the content.

The titles included on this page provide content.

Read more
Accessibility

100/100

The main title of the page is the first stated title

Facilitate the work of screen readers by indicating your main title (<h1>) before any other title.

We recommend you to keep a coherent hierarchy among your titles (h1, then h2, then h3, etc).

Read more
jQuery

100/100

Only one version of jQuery is loaded

Loading jQuery several times increases the page weight and complexify the maintainability of the code.

This page uses only one jQuery version, so it follows the best practice recommendation.

Read more
Data amount

100/100

Redirects are lightweight

An HTTP redirect's content is not used by web browsers. So, it provides an unnecessary weight that should be as small as possible.

Redirects on the web

Redirects can be temporary (302 HTTP code) or permanent (301).

This mechanism is for example used for secondary domains (.net to .com), the language detection mechanisms, etc.

How to fix the issue?

First, ensure that the redirect is unavoidable. In this case, it is necessary to reduce or completely remove the contents of the server responses for redirects.

A redirect should be < 1kB.

There isn't too heavy redirect.

Read more

Data amount

100/100

HTTP error responses are lightweight

The content of a HTTP error response is not used by web browsers. So, it provides an unnecessary weight that should be as small as possible.

Responses in error on the web

The resources that can be reached by the browser return a HTTP code between 400 and 599.

How to fix the issue?

First, you have to avoid requesting resources that return an error. Moreover, reduce or completely remove the contents of the server error responses.

A response error should be < 10kB.

There is no heavy resource in error.

Read more
Compliance

100/100

No Flash resource detected

Flash is considered obsolete in 2015. HTML5 is more powerful and more widely supported. Using Flash can lead to compatibility issues and may send negative signals to your users (eg the browser warning that content was blocked because it could be dangerous).

Moreover, Google shows directly in its mobile search results that [the page may not work on the user's device](#).

Congratulations, this page doesn't contain Flash resources.

Read more
Quality

100/100

IDs within your HTML code are unique

Using the same ID on several elements can have side effects, especially during JavaScript executions or when applying CSS rules.

IDs explained

Each element of a web page can be identified thanks to the id attribute:


```
<p>
  <span id="mySpan1"></span>
</p>
```

These IDs allow you to manipulate your elements with CSS or JavaScript instructions.

How to properly use IDs?

You must ensure identifiers are not duplicated within the page. If you want to share a property or a behavior between multiple items, you have to use the `class` attribute, which is dedicated to this purpose:

```
<p>
  <span class="mySpans"></span><span class="mySpans"></span>
</p>
```

Read more
Compliance

100/100

Silverlight plugin is not used

Silverlight plugin is considered obsolete in 2015. HTML5 is more powerful and more widely supported. Using Silverlight plugin can lead to compatibility issues and may send negative signals to your users (e.g. the browser indicating that content was blocked because it could be dangerous).

Congratulations, this page doesn't use Silverlight plugin.

Read more
Compliance

100/100

The EOT font format is well declared

Make sure that the EOT format will be well used for your visitors using Internet Explorer <= 8.

Use the EOT format for Internet Explorer <= 8

The web browsers (Firefox, Chrome, Safari, Internet Explorer, Opera ...) do not support the same font formats. Your goal is to use the lightest possible format for each platform. When you use a font, you can specify several formats, via the `@font-face` CSS instruction: so the browser will use the first supported format.

This is true for all browsers except Internet Explorer <= 8, that misinterpret the `@font-face` instruction: it will use only the first format declared. And the lighter font format for this kind of browser is the EOT format.

How to use EOT format only for IE <= 8?

Only Internet Explorer supports the EOT format. So declare it in the first position in the `@font-face`'s `src` property: Internet Explorer will be able to understand that it must use the EOT format, and other browsers, that do not support EOT, will use another format.

Here is an article about this topic to help you [determine the right order to declare your fonts](#). **TL;DR: the best order for your webfont formats: EOT, WOFF2, WOFF, TTF, and SVG.**

All fonts with EOT format are placed in the first position in the `@font-face` instruction.

Read more

Security

100/100

The secure version is used systematically

Users using the HTTP version of the page must be redirected to the secure version.

HTTPs redirect

Even if a page is secure, visitors may still use the HTTP version (via an external link, or because they have bookmarked the HTTP version of the page, for example). Always set up a redirection so that users accessing the page using the HTTP protocol are redirected to a secure version.

Use the administration interface of your hosting provider or contact the administrator to set up an automatic redirection from the HTTP version to the secure version.

Your users are automatically redirected to the secure version of the page.

Read more

Quality

100/100

No CSS property is overridden by a shorthand

CSS has [some pitfalls](#) that can cause side effects on your styles.

Override CSS properties

When a property is used 2 times within a CSS rule, the second one overrides the first.

CSS provides some shorthand properties, that can lead to some mistakes. For instance, the "border" property is applied to all borders of an element, avoiding the use of all "border-top", "border-right", "border-left" and "border-bottom" properties.

For instance:

```
.myClass {  
  border-color:red;  
  border:5px solid; // border will take again the default color  
}
```

"border-color" is overridden by the "border" shorthand property.

Avoid side effects

The use of shorthand properties is risky, because it comes with an implicit override. If the resulting style on your page is the desired one, you should delete the overridden property (it will also reduce the file size).

Read more
Quality

100/100

Your CSS selectors are not too complex

Using simple CSS selectors improves your code's readability and performance.

CSS rules

The CSS rules allow to select elements from the HTML code, and to apply layout properties.

They use selectors (identifiers, classes, tag names, etc.) for selecting the HTML elements. A well-structured page allows writing simple CSS rules, quickly readable and efficient.

How to improve it?

Simplify your selectors as much as possible. Do not hesitate to introduce new classes in your code to avoid complex selectors.

For instance, the following selector:

```
body td .myClass div .myClass2 span .myClass3 {}
```

Should be replaced by:

```
#myId .myClass3 {}
```

Read more
Accessibility

100/100

All labels refer to an element

The `for` attribute associates the label to another element of the page and help screen readers to better interpret your content.

Label and for attribute

A label describes an element (a text to fill, a checkbox, etc.). When a user clicks on a label associated with a radio button, the option will be directly selected, improving the user experience.

How to use a label?

Associate the label to an element of the page by indicating the ID of the element. Example:

```
<form action="/action">
  <label for="myId">
    <input type="radio" name="myOptions" id="myId" value="1" >
```

Read more
Quality

100/100

CSS properties are not duplicated

Using several times the same property within a same CSS rule can affect the readability of the CSS. It is also an optimization opportunity: by removing duplicated properties, you will reduce the file size.

CSS properties

The CSS properties allow to apply a style to a set of elements. It is unnecessary to define 2 times the same property with the same value in a same rule.

How to improve it?

Remove one occurrence of the duplicated property. For example, the following properties:

```
.myClass {
  margin: 10px;
  ...
  margin: 10px;
}
```

Should be replaced by:

```
.myClass {
  margin: 10px;
}
```

Read more
Browser rendering

100/100

The page doesn't use client-side redirection

No client-side redirection (window-location, meta refresh...) has been triggered to display the page. Client-side redirections are to be avoided in any way possible.

Read more
Browser rendering

100/100

Your scripts seem to be injected efficiently

The script injection through the document.write instruction delays the rendering of your page and/or the interactivity for the user.

Do you need to inject a script?

document.write is sometimes used to inject a script. That is a bad practice. Example:

```
document.write('<script src="' + src + '" type="text/javascript"></script>');
```

[As described in this article](#), you should prefer the "createElement-insertBefore" pattern:

```
var sNew = document.createElement("script");
sNew.async = true;
sNew.src = "http://ajax.googleapis.com/ajax/libs/jquery/1.5.1/jquery.min.js";
var s0 = document.getElementsByTagName('script')[0];
s0.parentNode.insertBefore(sNew, s0);
```

On this page, no document.write injects a script.

Read more
Quality

100/100

Your CSS selectors are unique

Using several times the same selector for several declarative blocks within a single CSS file can affect the readability and maintainability of the code. It is also an optimization opportunity: by grouping these elements within a single rule, you will reduce the file size and optimize the rendering times.

The CSS Object Model (CSSOM)

The CSS rules allow to select elements from the HTML code in order to apply styling properties.

In order to do that, the browser constructs its own model of the CSS markup it has fetched: the CSS Object Model. This transformation takes several steps: reading the file, converting the strings of text into browser tokens, transforming these tokens into objects with properties and rules and organizing the elements in a tree-like model. These operations will take place more quickly if the CSS code is written in a simple and non-redundant way.

How to improve the CSS rules?

For maintenance as well as performance, you have to reduce the number of rules contained into your CSS files and group rules whenever it's possible. For instance, the following rules:

```
.myClass {
  margin: 0;
}
...
.myClass{
  border: 1px solid black;
}
```

Should be merged into a single one:

```
.myClass {
  margin: 0;
```

```
border: 1px solid black;  
}
```

If the duplication is the result of a legacy process or is justified for maintenance reasons, you can consider using a CSS minification tool able to do automatically this improvement.

[Read more](#)

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