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Program Manager – Web Platform
PWAs
RESPONSIVE DESIGN
PERFORMANCE
SECURITY
WEB STANDARDS
a11y ESSENTIALS
CSS
JAVASCRIPT
HTML
http-equiv="X-UA-Compatible"

X-XSS-Protection aria-required="true"
rel="apple-touch-icon"
lang="en"

Strict-Transport-Security

XSS rel="noopener noreferrer"

name="viewport" role="navigation"

rel="manifest" charset="utf-8"

X-Content-Type
Community driven
Collaborative
User is in control
C:\Projects\edgesummit>
C:\Projects\edgesummit>sonar https://summit.microsoftedgedge.com
× Finishing...
https://www.googleanalytics.com/analytics.js
line 32 col 9 Error 'content-type' header should have media type 'application/javascript' (not 'text/javascript')
no-disallowed-headers
content-type
line 32 col 9 Error 'server' header is disallowed
no-disallowed-headers

https://summit.microsoftedgedge.com/
line 108 col 29 Error ARIA roles used must conform to valid values
highest-available-document-mode
no-friendly-error-pages
line 108 col 29 Error Response with status code 404 had less than 512 bytes
no-disallowed-headers

× Found a total of 10 errors and 0 warnings
Exit code: 1
Require highest available document mode

Why is this important?

Internet Explorer 8/9/10 support document compatibility modes. Because of this, even if the site’s visitor is using, let’s say, Internet Explorer 9, it’s possible that Internet Explorer will not use the latest rendering engine, and instead, decide to render your page using the Internet Explorer 8.5 rendering engine.

response header with appropriate value
Require ‘Strict-Transport-Security’ response header
Require ‘X-Content-Type-Options’ HTTP response header
Require a web app manifest file
Require charset meta tag with the value of ‘utf-8’
Require external links to disown opener
Require highest available document mode
Require viewport meta tag with proper value
SSL Server Test
Validate ‘Set-Cookie’ Header

and therefore, ensure that anyone browsing the site from those browsers is treated to the best possible user experience that browser can offer.

If possible, it is recommended to send the HTTP response header instead of using the meta tag, as the latter will not always work (e.g.: if the site is served on a non-standard port, as Internet Explorer’s preference option Display intranet sites in Compatibility View is checked by default).

Notes:

• If the meta is used, it should to be included in the <head> before all other tags except for the <title> and the other meta tags.

•Appending chromeFrame has been depreciated for quite some time.

What does the rule check?

By default the rule checks if the X-UA-Compatible response header is sent with the value of IE-edge, and that the meta tag isn’t used.
C:\Projects\edgesummit>sonar https://summit.microsoftedge.com
x Finishing...
https://summit.microsoftedge.com/
   Error ‘x-ua-compatible’ header was not specified
   Error Response with status code 404 had less than 512 bytes
line 108 col 29 Error ARIA roles used must conform to valid values
✗ Found 3 errors and 0 warnings
✗ Found a total of 3 errors and 0 warnings
Exit code: 1
C:\Projects\edgesummit>
Getting started with Sonar's CLI is really easy. First you need to have Node.js v8.x installed and then run:

```
npm install -g @sonarwhal/sonar
```

You can also install it as a devDependency if you prefer not to have it globally.

The next thing that Sonar needs is a `.sonarrc` file. The fastest and easiest way to create one is by using the flag `--init`:

```
sonar --init
```

This command will start a wizard that will ask you a series of questions (e.g.: what connector to use, what formatter, which rules, etc.). Answer them and you will end up with something similar to the following:

```
{
    "connector": {
        "name": "connectorName"
    },
    "formatter": "formatterName",
    "rules": [
        "rule1",
        "rule2:warning",
        "rule3:off"
    ],
    "rulesTimeout": 120000
}
```

Then you just have to run the following command to scan a website:

```
sonar https://example.com
```

Wait a few seconds and you will get the results. It might take a while to get some of the results. Some of the rules (e.g.: SSL Labs) can take a few minutes to report the results.
Where are we going?
Results

SCANNED URL: https://sonarwhal.com

WARNINGS | ERRORS | SCAN TIME | SCANNER VERSION | PERMALINK
--- | --- | --- | --- | ---
2 | 2 | 04:30 | 1.0 | https://sonarwhal.com/scan-permalink

ACCESSIBILITY | INTEROPERABILITY | PERFORMANCE | PWAs | SECURITY
--- | --- | --- | --- | ---
0 ERRORS 0 WARNINGS | 2 ERRORS 2 WARNINGS | 0 ERRORS 0 WARNINGS | 0 ERRORS 0 WARNINGS | 0 ERRORS 0 WARNINGS

Errors & Warnings

Interoperability

html-checker

⚠️ WARNING
role="none" is not yet supported in all browsers. Consider instead either using role="presentation" or role="none presentation"

https://sonarwhal.com:1:3331

⚠️ WARNING
role="none" is not yet supported in all browsers. Consider instead either using role="presentation" or role="none presentation"
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1">
</head>
<body>
</body>
</html>

coming soon!
Lint the web forward

- Community driven
- Collaborative
- User is in control

What is Sonar?
We’d love to hear from you!

Upstairs @ the testing booth, or in:

- sonarwhal.com
- github.com/sonarwhal
- gitter.im/sonarwhal/Lobby
- @narwhalnellie
- aka.ms/sonar-edgesummit17

```
npm install @sonarwhal/sonar
```