https://colab.research.google.com/drive/1_NR2nTSIKvxvH_MzXp7Q-mtUwfAZ0aQB#scrollTo=FzBLNPMcFWxF

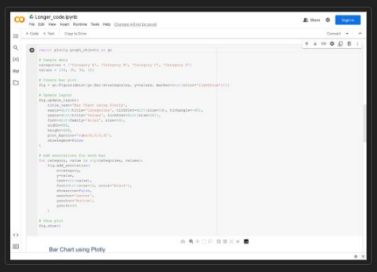
Performance	Accessibility	Best Practices	SEO
31	90	63	89

31

Performance

Values are estimated and may vary. The performance score is calculated directly from these metrics. See calculator.

▲ 0–49 ■ 50–89 ● 90–100



METRICS Collapse view

▲ **First Contentful Paint**
3.4 s
First Contentful Paint marks the time at which the first text or image is painted. Learn more about the First Contentful Paint metric.

▲ **Largest Contentful Paint**
5.5 s
Largest Contentful Paint marks the time at which the largest text or image is painted. Learn more about the Largest Contentful Paint metric

▲ **Total Blocking Time**
710 ms
Sum of all time periods between FCP and Time to Interactive, when task length exceeded 50ms, expressed in milliseconds. Learn more about the Total Blocking Time metric.

● **Cumulative Layout Shift**
0
Cumulative layout shift measures the movement of visible elements within the viewport. Learn more about the cumulative layout shift metric.

▲ **Speed Index**
5.9 s
Speed Index shows how quickly the contents of a page are visibly populated. Learn more about the Speed Index metric.

View Treemap

Show audits relevant to: All FCP LCP TBT CLS

DIAGNOSTICS

- ▲ Eliminate render-blocking resources — Potential savings of 480 ms
- ▲ Reduce unused CSS — Potential savings of 67 KiB
- ▲ Reduce unused JavaScript — Potential savings of 2,958 KiB
- ▲ Reduce initial server response time — Root document took 1,010 ms
- ▲ Avoid an excessive DOM size — 1,651 elements
- ▲ Reduce JavaScript execution time — 1.9 s
- ▲ Minimise main-thread work — 3.2 s
- ▲ Reduce the impact of third-party code — Third-party code blocked the main thread for 650 ms
- ▲ Largest contentful paint element — 5,530 ms
- ■ Serve images in next-gen formats — Potential savings of 17 KiB
- ■ Avoid serving legacy JavaScript to modern browsers — Potential savings of 37 KiB
- ■ Avoid enormous network payloads — Total size was 6,179 KiB
- ■ Serve static assets with an efficient cache policy — 4 resources found
- ■ Ensure text remains visible during webfont load

- Does not use passive listeners to improve scrolling performance
- Avoid chaining critical requests — 14 chains found
- User Timing marks and measures — 30 user timings
- Avoid large layout shifts — 1 layout shift found
- Avoid long main-thread tasks — 8 long tasks found
- Avoid non-composited animations — 2 animated elements found

More information about the performance of your application. These numbers don't directly affect the performance score.

PASSED AUDITS (17) Show

Accessibility

These checks highlight opportunities to improve the accessibility of your web app. Automatic detection can only detect a subset of issues and does not guarantee the accessibility of your web app, so manual testing is also encouraged.

ARIA

- Elements with an ARIA `[role]` that require children to contain a specific `[role]` are missing some or all of those required children.

These are opportunities to improve the usage of ARIA in your application which may enhance the experience for users of assistive technology, such as a screen reader.

NAMES AND LABELS

- `<frame>` or `<iframe>` elements do not have a title

These are opportunities to improve the semantics of the controls in your application. This may enhance the experience for users of assistive technology, such as a screen reader.

ADDITIONAL ITEMS TO MANUALLY CHECK (10) Show

These items address areas which an automated testing tool cannot cover. Learn more in our guide on conducting an accessibility review

PASSED AUDITS (19) Show

NOT APPLICABLE (33) Show

Best Practices

GENERAL

- Uses deprecated APIs — 1 warning found
- Registers an `unload` listener

Browser errors were logged to the console

Detected JavaScript libraries

USER EXPERIENCE

Prevents users from pasting into input fields

PASSED AUDITS (10) Show

NOT APPLICABLE (2) Show

SEO

These checks ensure that your page is following basic search engine optimisation advice. There are many additional factors that Lighthouse does not score here that may affect your search ranking, including performance on Core Web Vitals. Learn more about Google Search essentials.

CONTENT BEST PRACTICES

Document does not have a meta description

Format your HTML in a way that enables crawlers to better understand your app's content.

ADDITIONAL ITEMS TO MANUALLY CHECK (1) Show

Run these additional validators on your site to check additional SEO best practices.

PASSED AUDITS (8) Show

NOT APPLICABLE (5) Show

Captured at 26 Apr 2024, 08:51 GMT+7
Initial page load
Emulated desktop with Lighthouse 11.5.0
Unknown
Single page session
Using HeadlessChromium 122.0.6261.94 with lr

Generated by **Lighthouse** 11.5.0 | File an issue