



Debajit Mallick

Software Engineer @P360,
Organizer @GDG Siliguri



who am I?

- 20+ talks on topics like Web Performance, Frontend, Firebase and many more.
- LinkedIn 2024 Top Voice for Web Development.
- Mentor and Judge of Hack4Bengal 3.0 and 2.0 Hackathon.
- Mentor of team OrganiCod3rs, the Winner of Smart India Hackathon 2022, Software Edition.
- Mentor of GirlScript Summer of Code 2023.
- Member of Team Delenitors, Smart India Hackathon 2020 Winner, Software Edition.
- Top Contributor of GirlScript Winter of Code 2021.
- Top Contributor of JGEC Winter of Code 2020.





**CHALIYE
SHURU
KARTE HAI**





Topic

Mastering Web Performance Optimization with Chrome DevTools

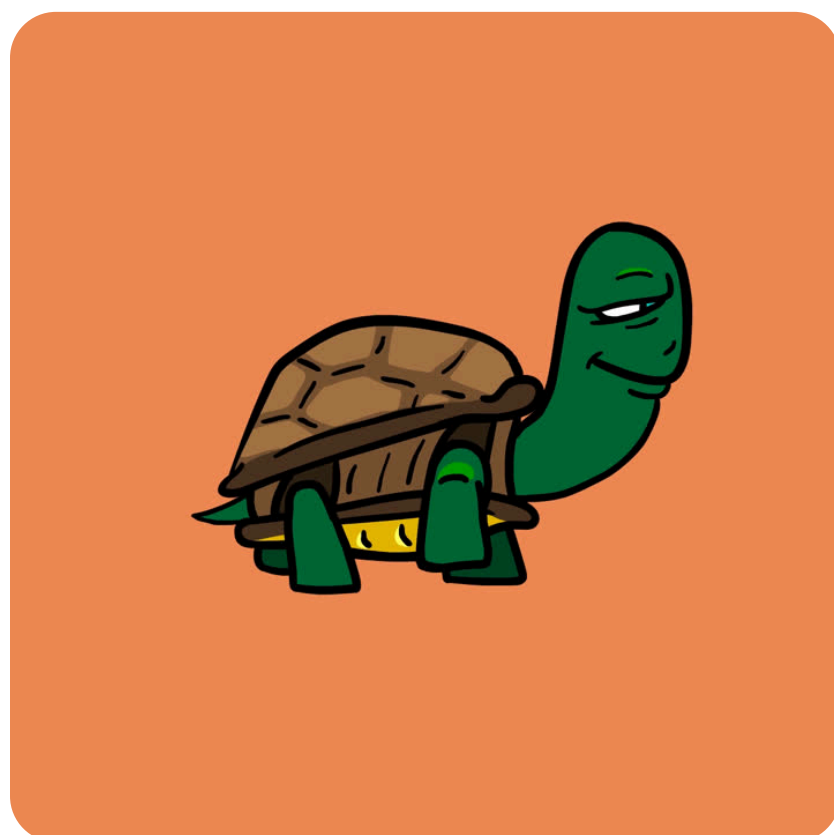


Can you build a website?



Can you build a fast website?





slow



fast



Topics

- Web Vitals (Ex: LCP, FID, CLS)
- Explore the Performance tab in Chrome
- Explore Lighthouse tab in Chrome
- How to become a performance-focused dev
- Memes





yeh sab kya tha



Web Vitals

key performance metrics introduced by Google to measure and improve the user experience of websites. Ex: LCP, FID, CLS etc.

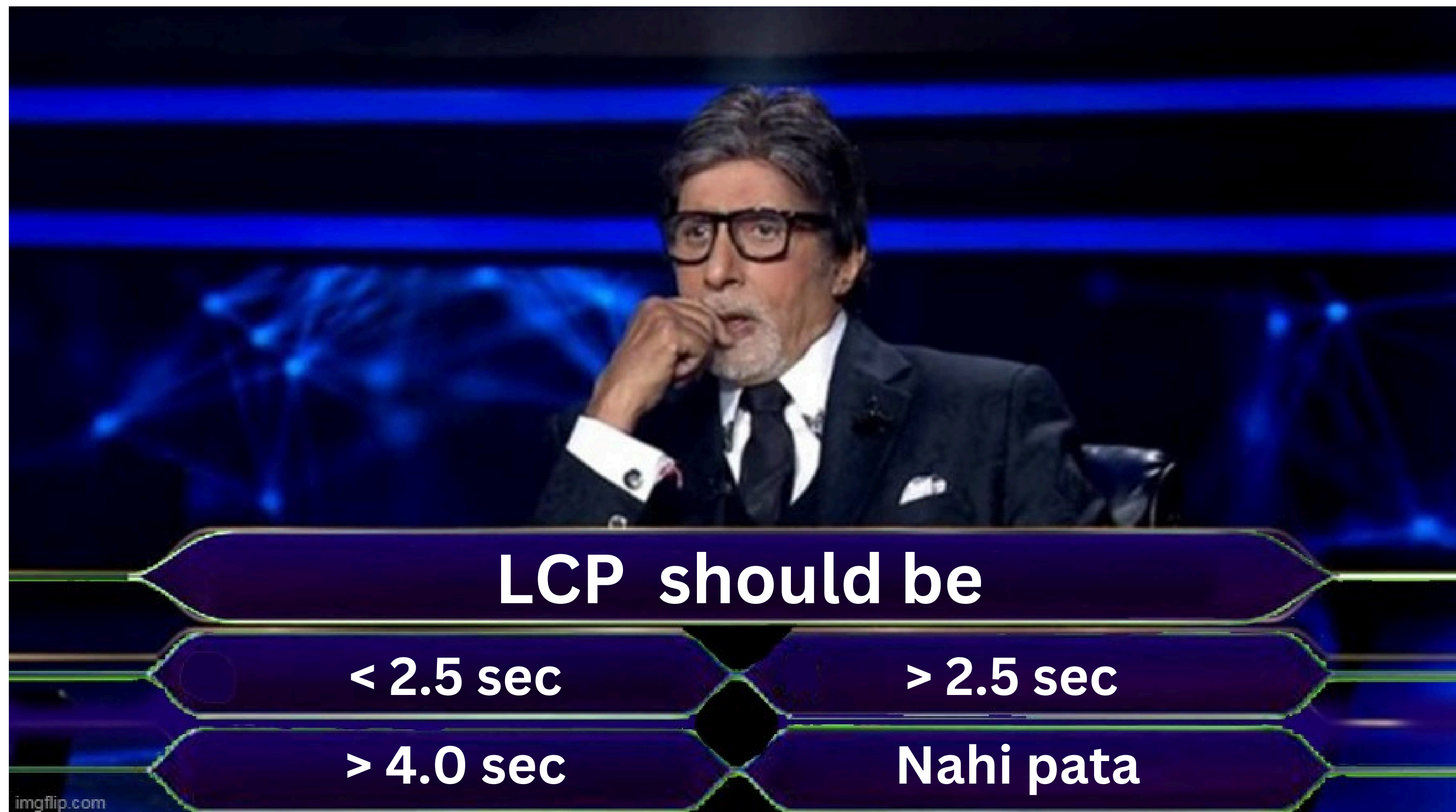




LCP (Largest Contentful Paint)

The time it takes for the largest visible content on a page (e.g., an image, video, or text block) to load and render within the viewport / screen.





FID (First Input Delay)

The time it takes for the browser to respond to a user's first interaction (e.g., clicking a button, link, or typing) on the page.

Good: ≤ 100 milliseconds



Cumulative Layout Shift (CLS)

The visual stability of a page by tracking unexpected layout shifts during the loading phase.

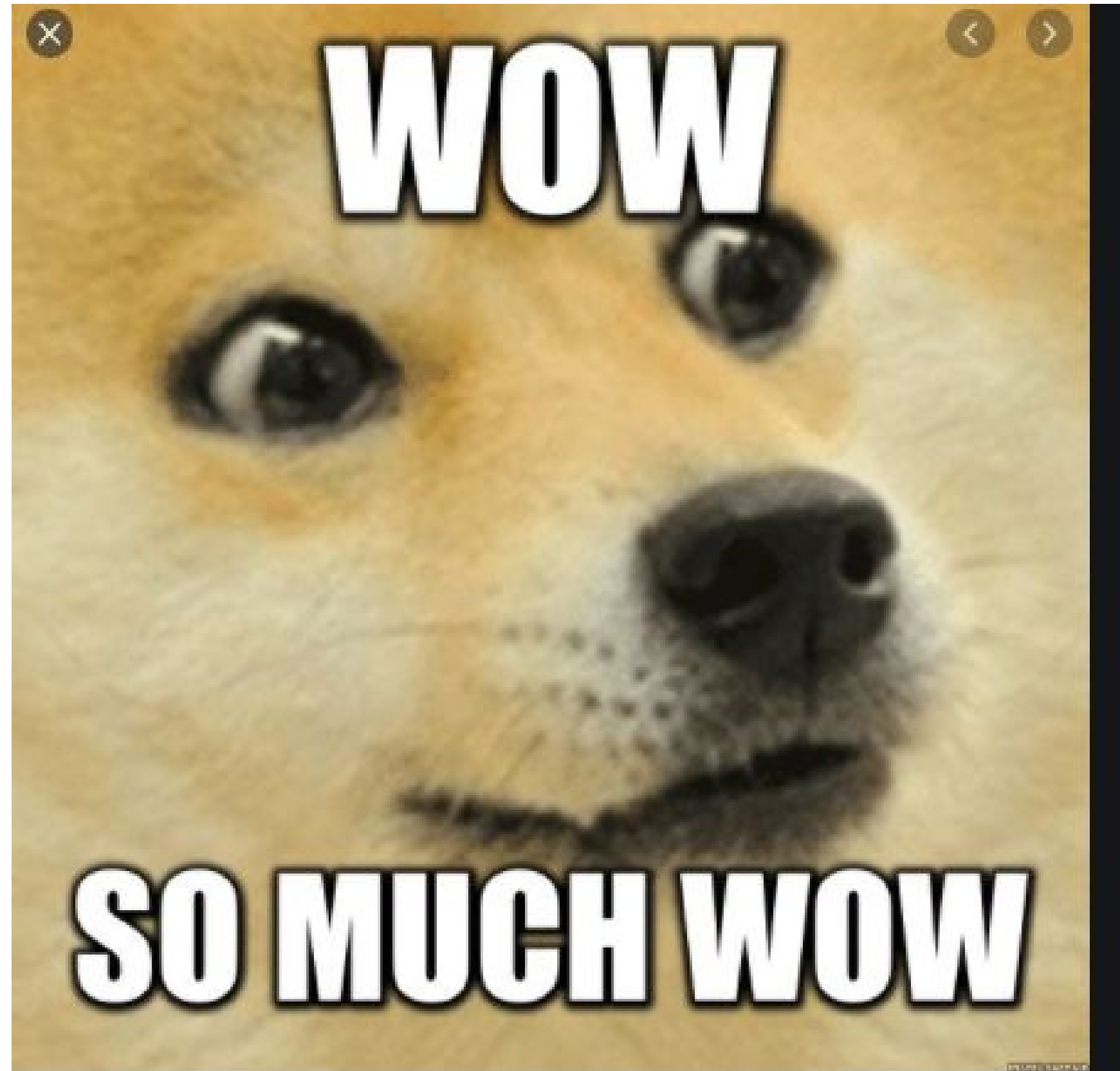


Explore the Performance tab in Chrome

a feature that allows you to analyze how quickly a webpage loads and runs by measuring the time it takes for different parts of the page to load and execute

Go visit this site: <https://googlechrome.github.io/devtools-samples/jank/>





Lighthouse



Ya lighthouse kya hai!!!



Lighthouse in Chrome

a tool that helps improve the quality of web pages by running audits for performance, accessibility, and more





How to become a performance focused developer?

- Image Optimization
- Code Splitting
- Memoization
- Debouncing and Throttling
- Caching



***To learn more about performance optimization check out this blog:**



***To learn more about image optimization check out this blog:**



Now, I am a Performance Guru

PPT Link



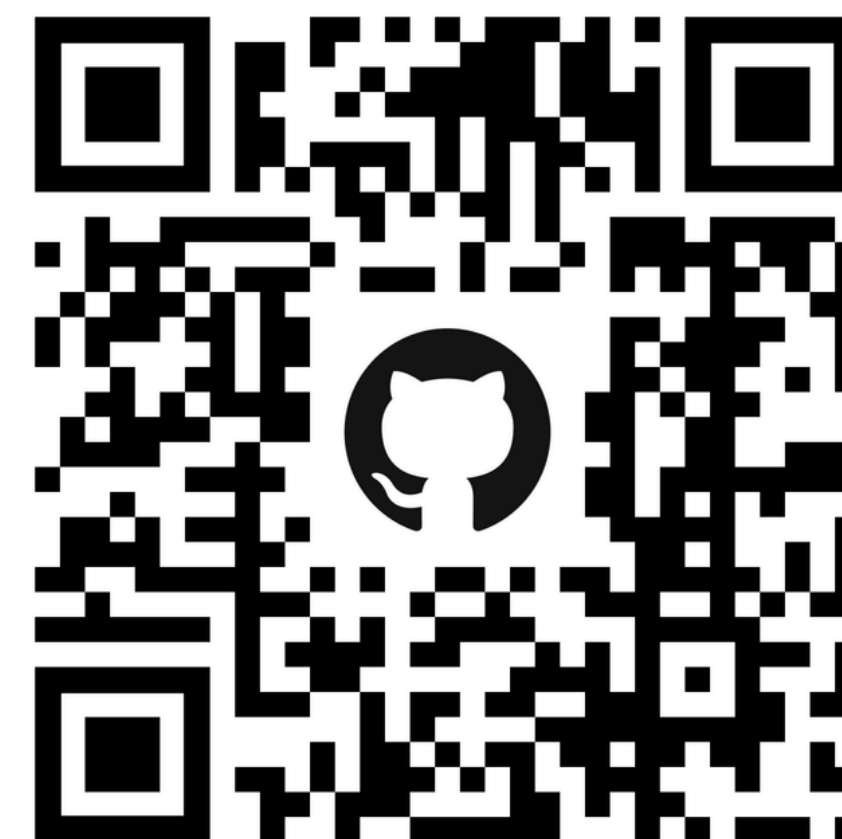
Thank You



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