Making performance a design consideration



I'm Chelsea Otakan

@chexee

Why should designers care about performance?

"User experience encompasses all aspects of the end-user's interaction with the company, its services, and its products.

Don Norman and Jakob Nielsen, The Neilsen Norman Group

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Never.

" ... the average impact of a 1 second delay meant a 7% reduction in conversions

"The Performance of Web Applications: Customers are Won or Lost in One Second" Aberdeen Research Group, 2008

An additional 400ms delay on a Google search results page dropped traffic and revenue by almost 20%

Marissa Mayer, Web 2.0 2006

At Amazon, every 100ms increase in load time decreased sales by about 1%

Improving performance improves user experience.

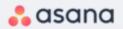
Improving performance improves user experience.

Especially for developers.

"Flow is the mental state of operation in which a person performing an activity is fully immersed in a feeling of energized focus, full involvement, and enjoyment... Generate phrases...

Connect teammates...

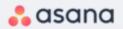
Cross 't's dot 'i's...



Generate phrases...

Connect teammates...

Cross 't's dot 'i's...



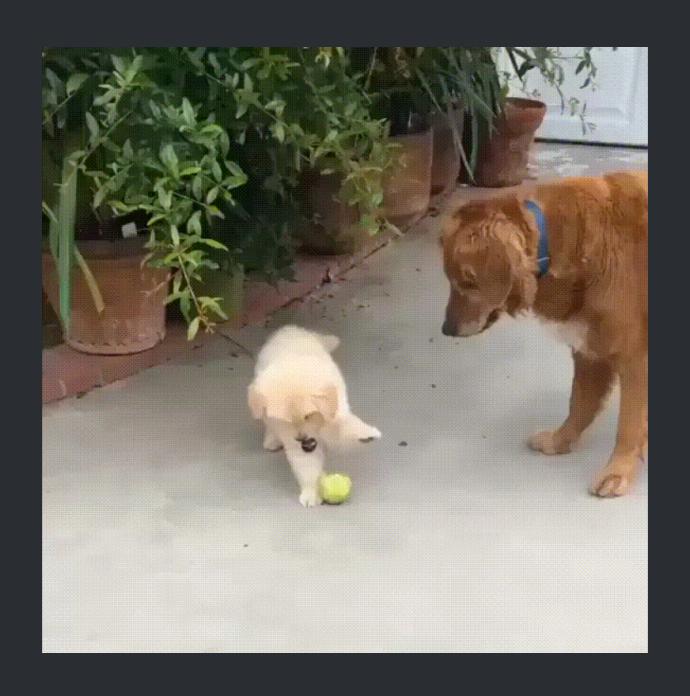
What's good performance?

A delay of less than 100ms will feel instantaneous

A delay of 1 second will be noticeably sluggish

A delay of 10 seconds or more will cause the user's attention to drift.

A delay of 10 5 seconds or more will cause the user's attention to drift.



... but what if the user has to wait?

First, ask "why?"

Design for waiting last.

... but what if the user really has to wait?

The longer the wait, the more detail I need



100ms to 1 second

No loader required. Focus on optimization.

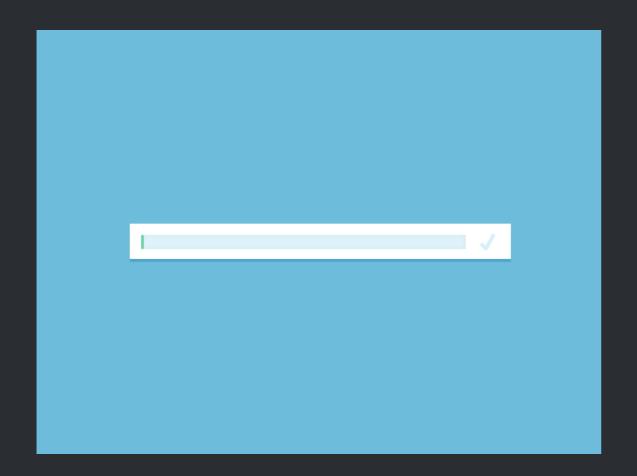
Click responses, hover responses

1 to 3 seconds



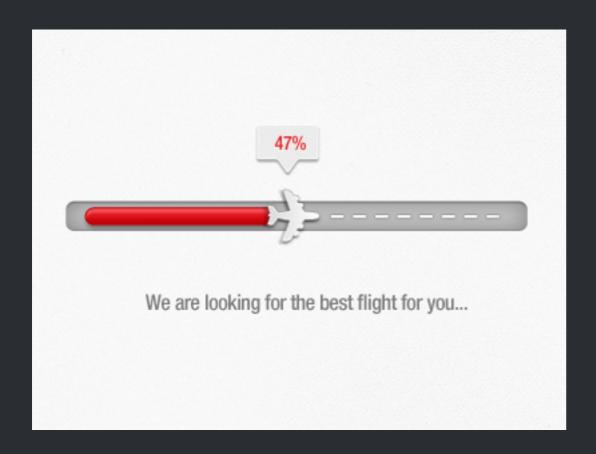
Content loading, form submissions

3 to 5 seconds



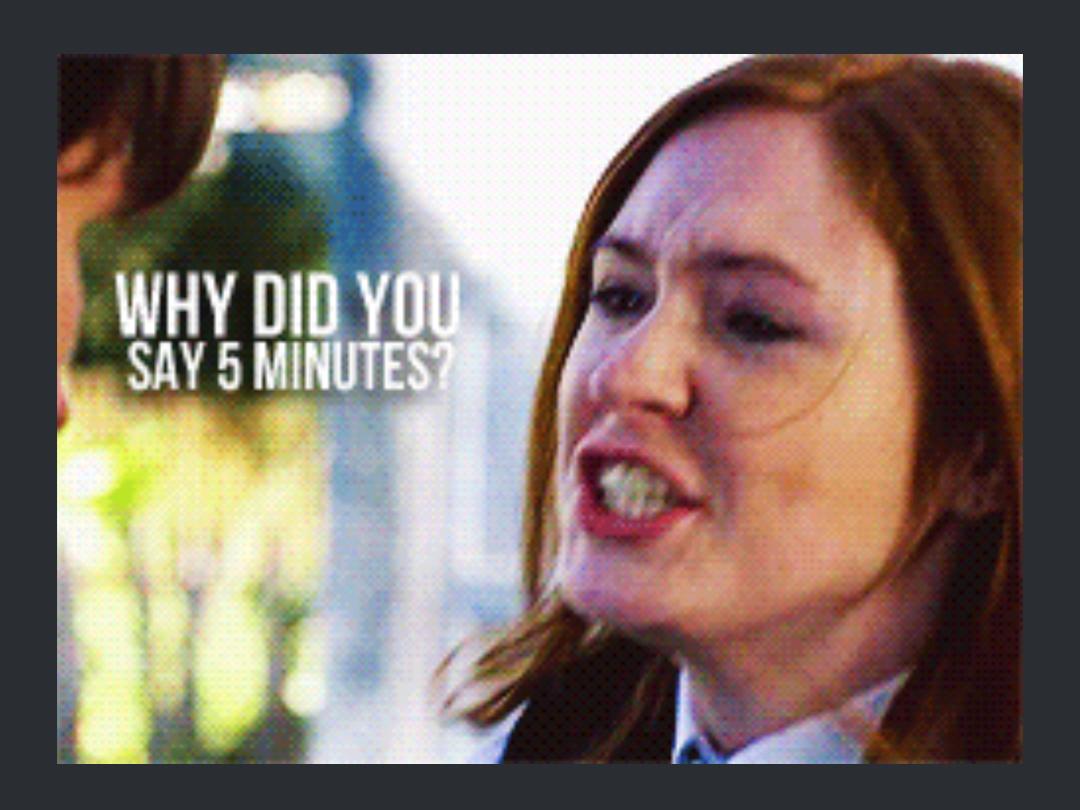
Content loading, file downloading, buffering

More than 5 seconds



Content loading, file downloading, buffering

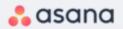
Tell the truth

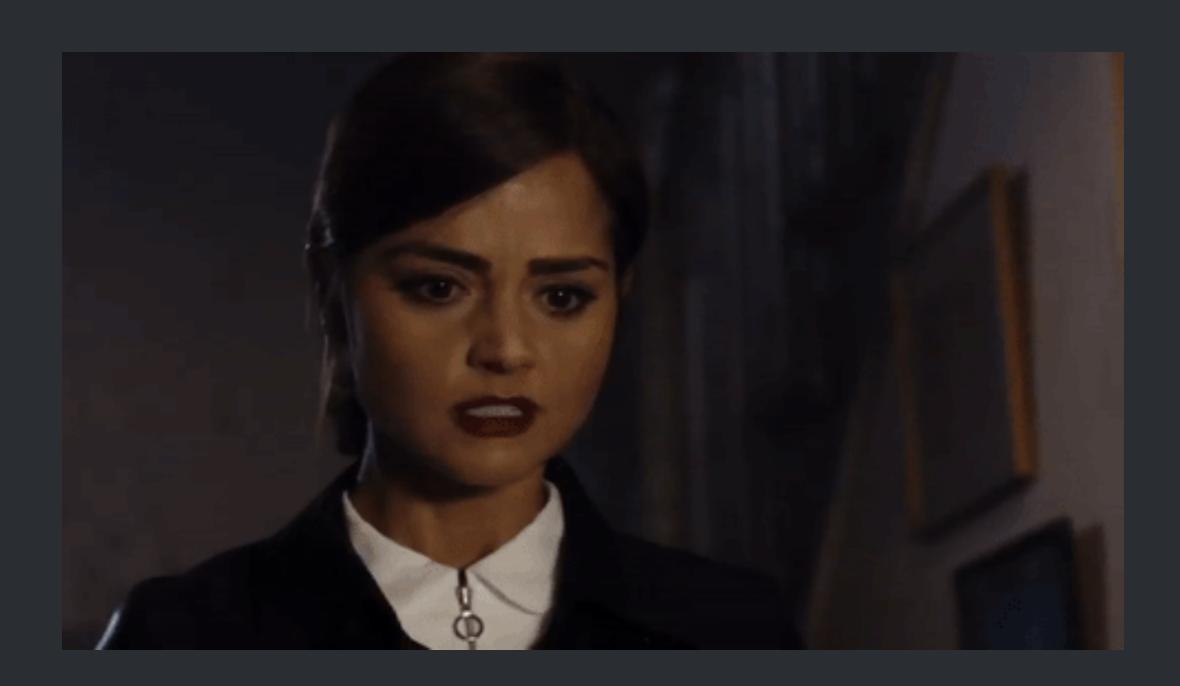


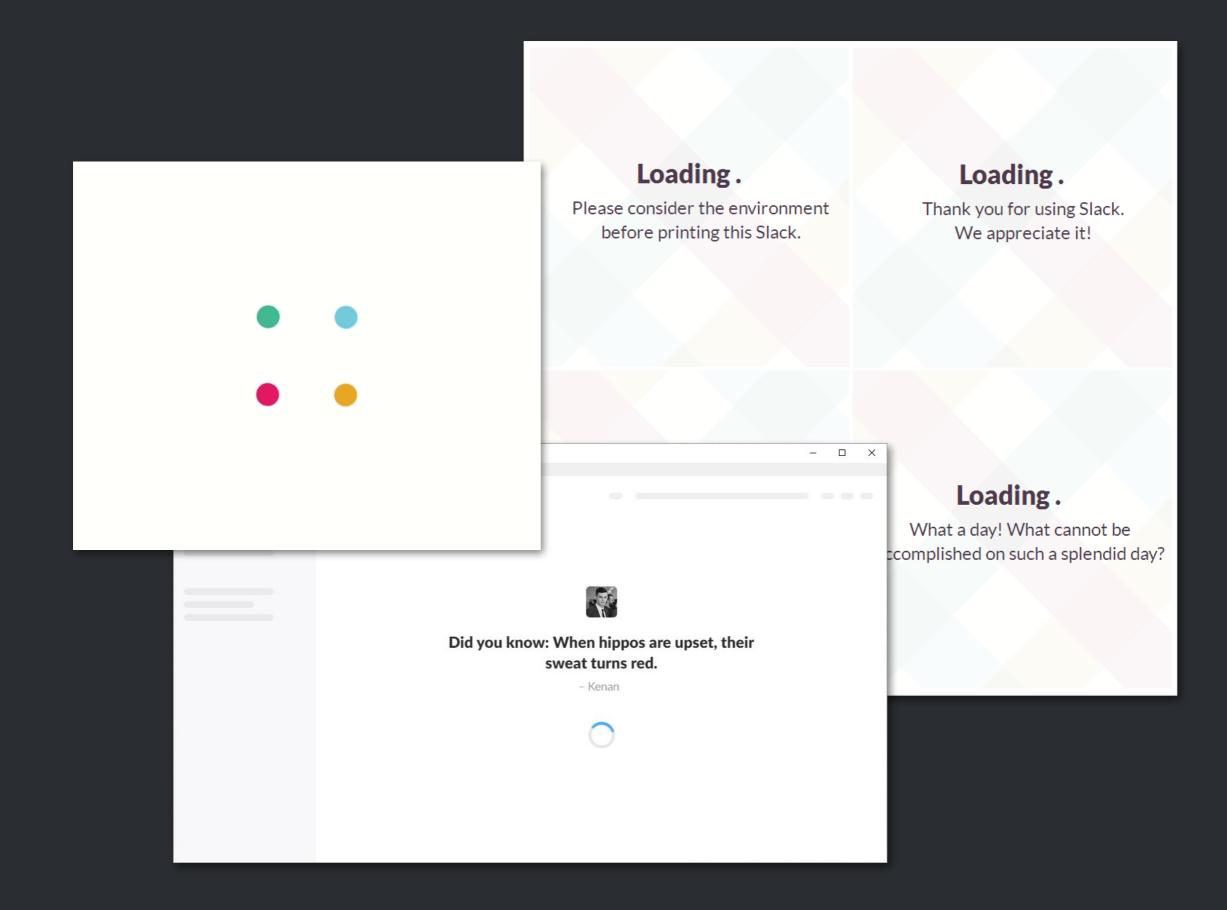
Generate phrases...

Connect teammates...

Cross 't's dot 'i's...

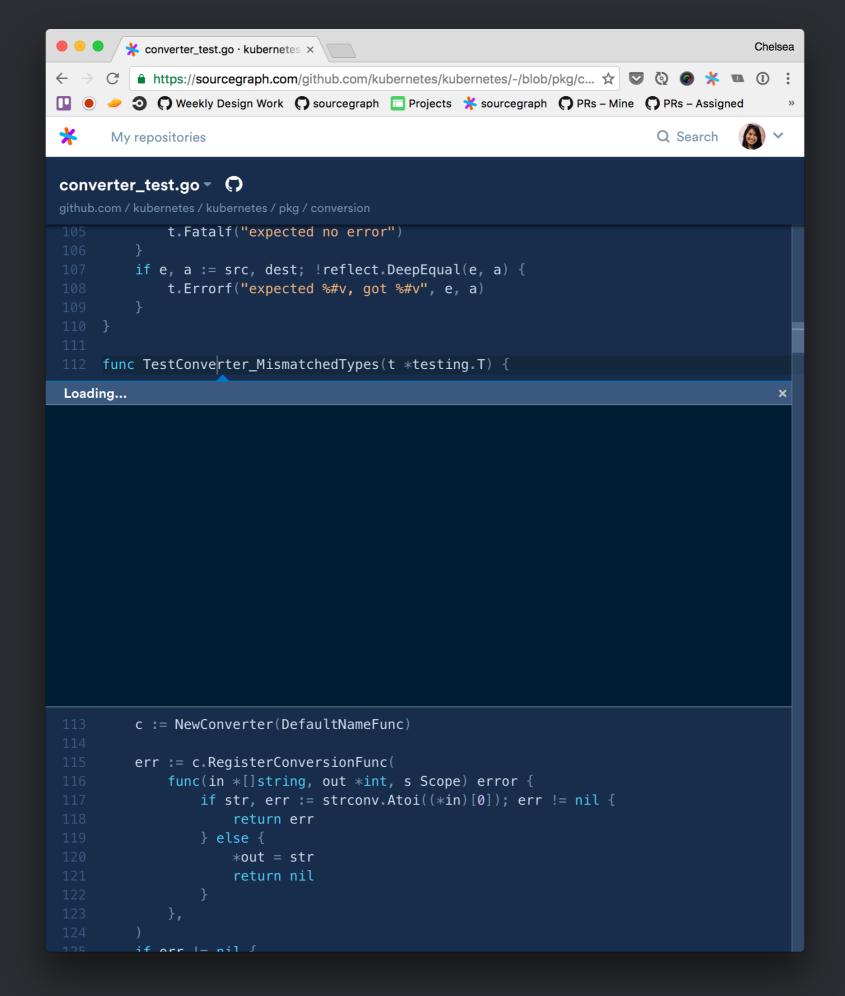


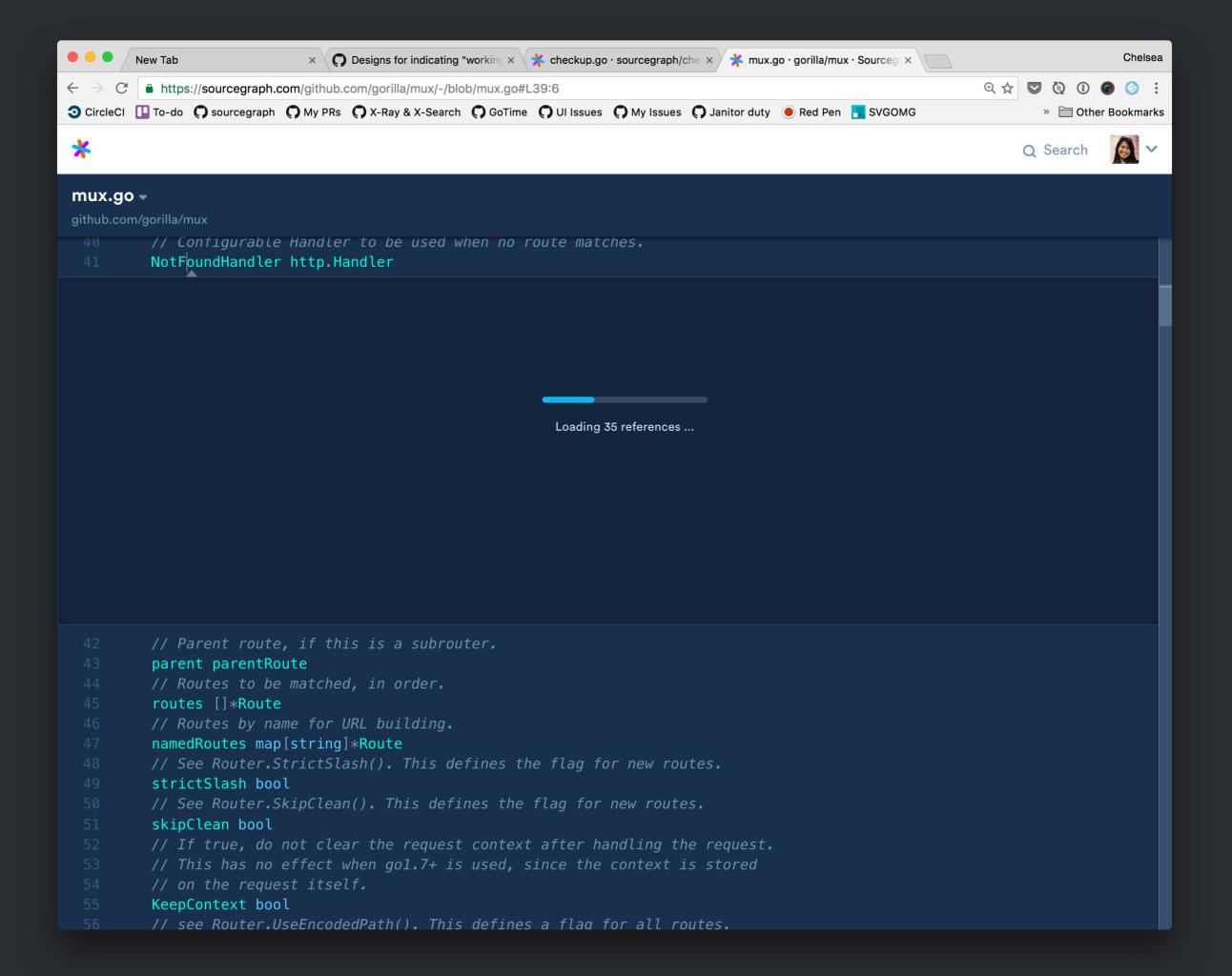


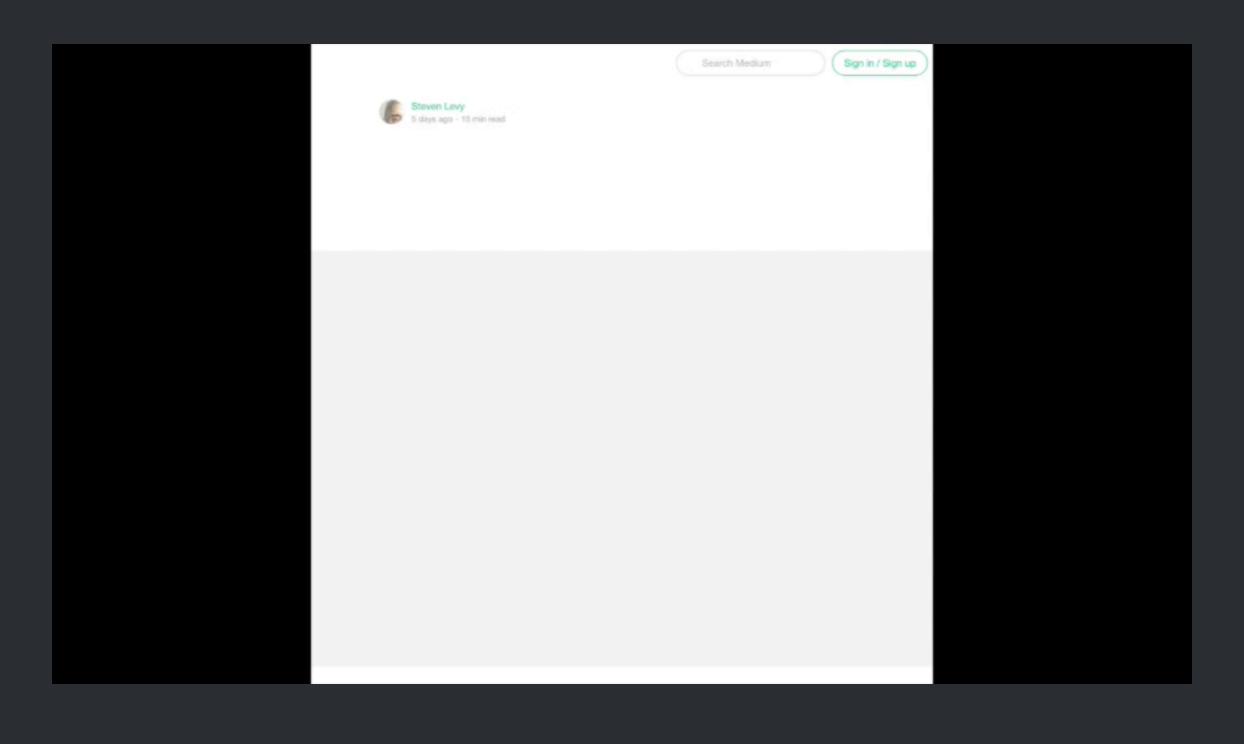


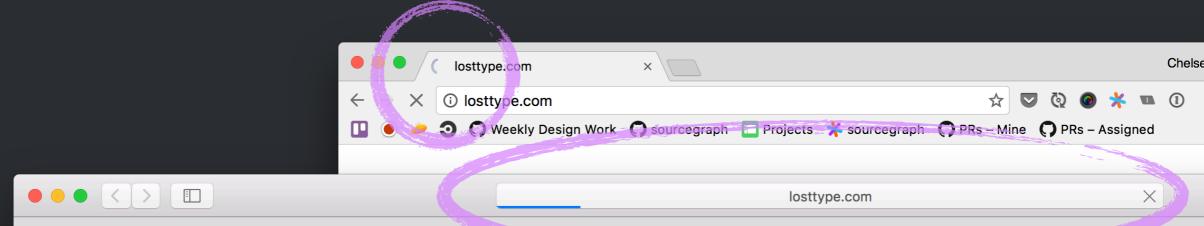
Loading

IRC loads faster than this...









Do you want to change your default web browser to Safari?



Before / After androidux.com



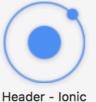
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Design recruiting - G...



Chelsea Otakan Vox - Dropbox



Header - Ionic Components



Apple



Pssst: The 5 Best Secret B...



Design



Always Learning - the...



Ionic Compon...

Favorites



+ Nestio



Karaoke Night



vouch_assets



Donger



Dijkstra's algorithm - Wi...



SIMS -Snowboards,...



Red Pen



vouch_web



How to Use Brackets · ado...



Pathfinding -Wikipedia, the...



dark chocolate tart with ging...



Team Jarvis Board



vouch_admin



quick coding projects to ke...



Spanning tree -Wikipedia, the...

Takeaways

Fast response times mean a lot to users, especially to developers.

If a user needs to wait, manage their expectations by giving useful information.

Performance is both a design and engineering concern. Treat it as such.

Thanks