Fast by Default Near instant load times at scale with GatsbyJS



- > WHY PERFORMANCE MATTERS
- > AN ORAL HISTORY OF WEB DEVELOPMENT
- > THE PROMISES OF GATSBYJS
- > PERFORMANCE IS A LONG GAME

Why performance matters



∨ WHY PERFORMANCE MATTERS

THE BUSINESS STANDPOINT

THE ETHICS OF WEB PERFORMANCE

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Performance matters for your business

Source: https://wpostats.com/

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zalando

Zalando saw a 0.7% increase in revenue when they shaved 100ms off their load time.



Source: https://wpostats.com/

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trainline

Trainline reduced latency by 0.3 seconds across their funnel and customers spent an extra £8 million (~€9.1 million) a year.



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FINANCIAL TIMES

Tests of the new, faster FT.com showed users were up to 30% more engaged—meaning more visits and more content being consumed.



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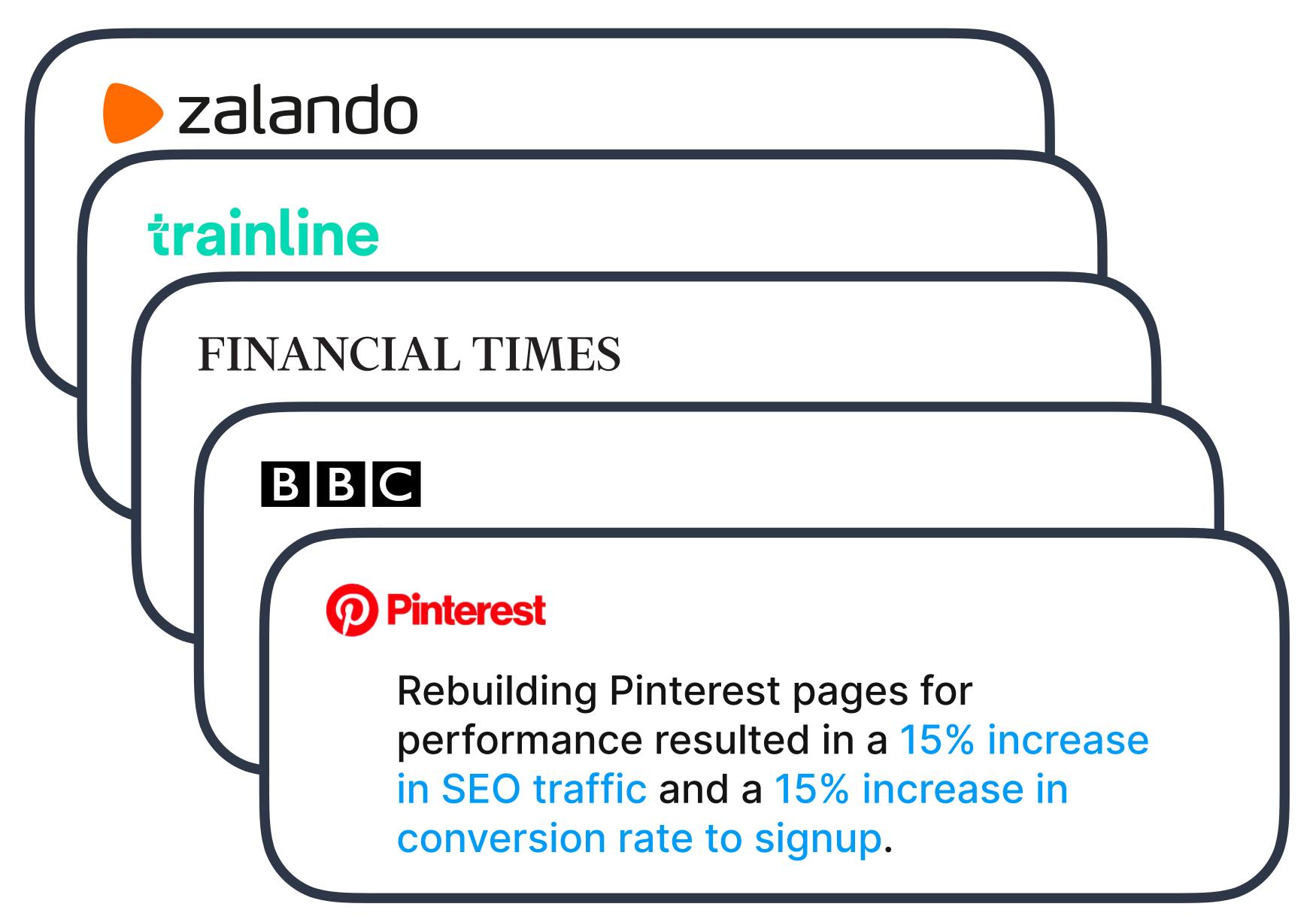
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The ethics of web performance

"Poor performance can, and does, lead to exclusion."

— Tim Kadlek



✓ WHY PERFORMANCE MATTERS

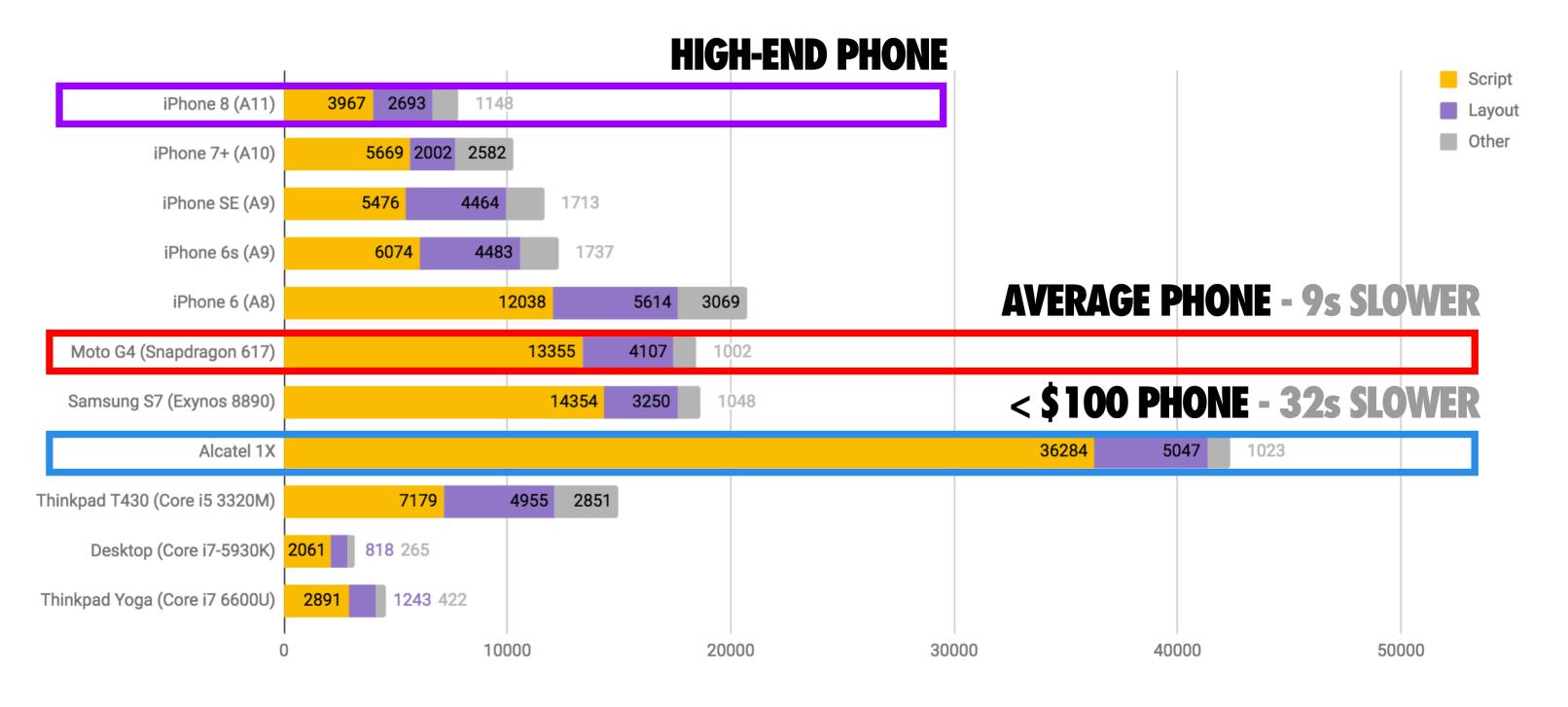
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JS PROCESSING FOR CNN.COM





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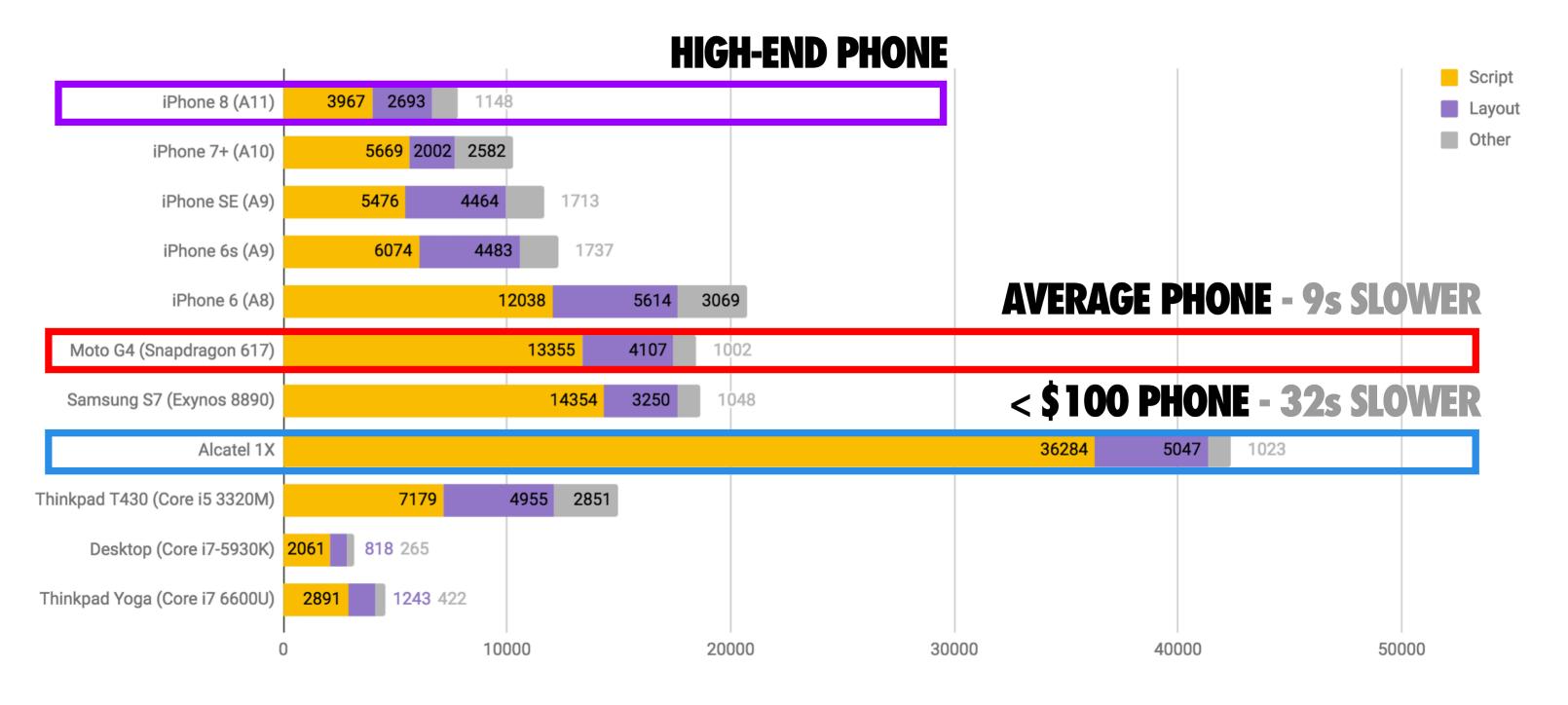
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Source: https://v8.dev/blog/cost-of-javascript-2019

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"[Performance good practices] have well-known benefits to usability, but are also acts of environmental protection."

— Cennydd Bowles, Future Ethics



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Source: https://timkadlec.com/remembers/2019-01-09-the-ethics-of-performance/

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"I need to buy a new phone"



Source: https://timkadlec.com/remembers/2019-01-09-the-ethics-of-performance/

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"My battery does not last a full day anymore"



Source: https://timkadlec.com/remembers/2019-01-09-the-ethics-of-performance/

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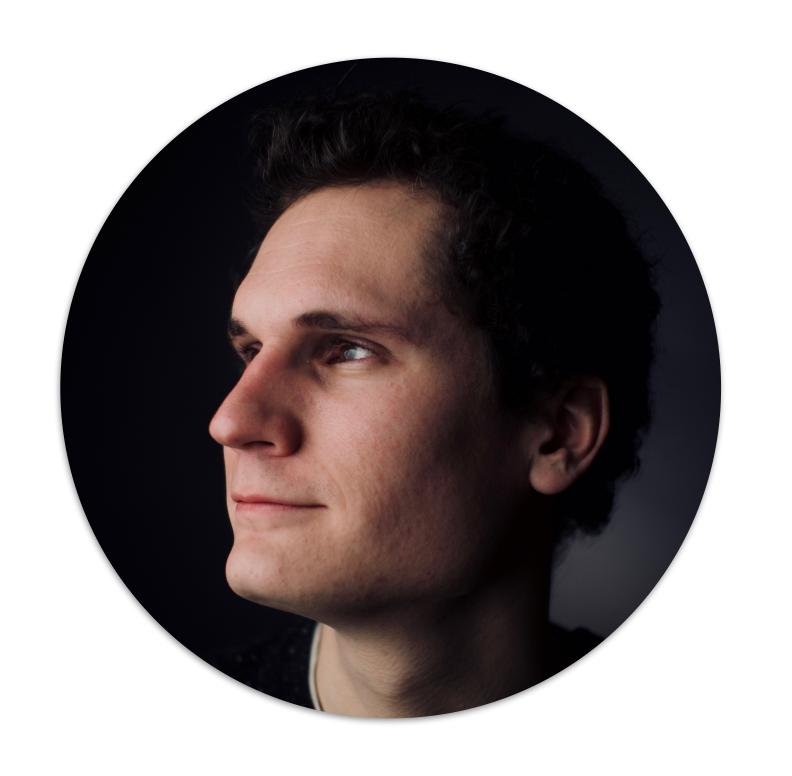
The ethics of web performance



Web Performance is not a zero-sum game



Source: https://timkadlec.com/remembers/2019-01-09-the-ethics-of-performance/



Nicolas Goutay

Web Performance Evangelist

— Theodo

Twitter: ophacks



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An oral history of web development



- > WHY PERFORMANCE MATTERS
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 DEVELOPMENT

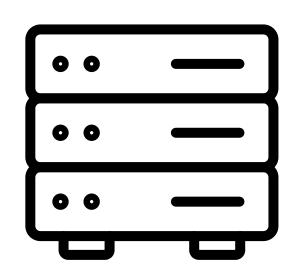
A HISTORY

RENDERING ON THE WEB

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At the beginning, there was static (1991–)







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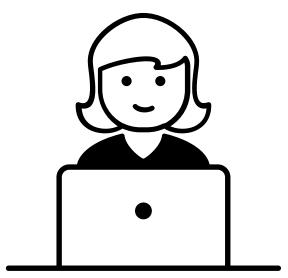
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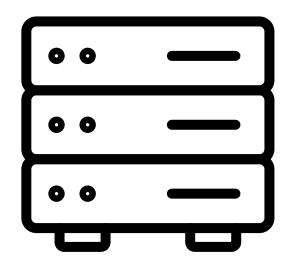
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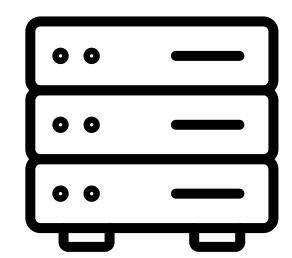
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sure thing there you go





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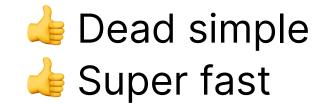
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Pros





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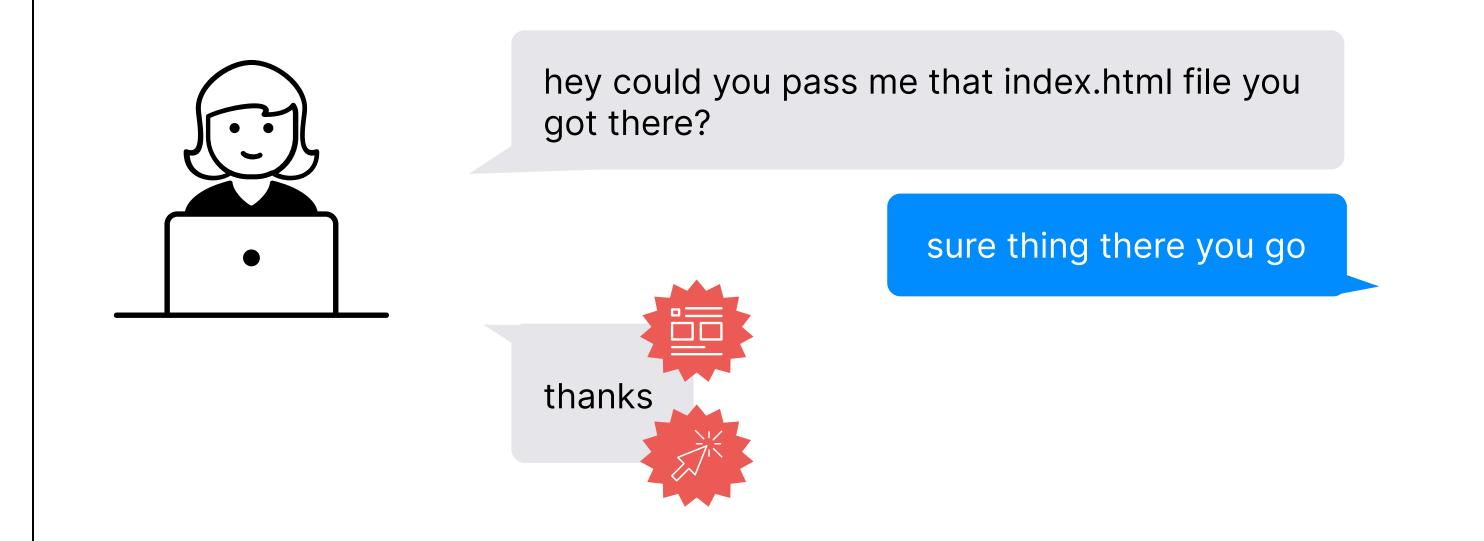
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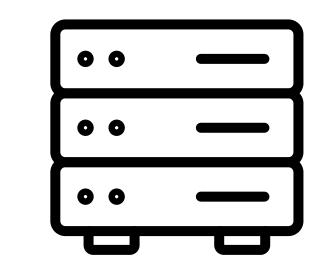
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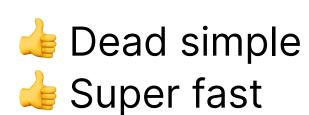
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Pros Cons



Not dynamic



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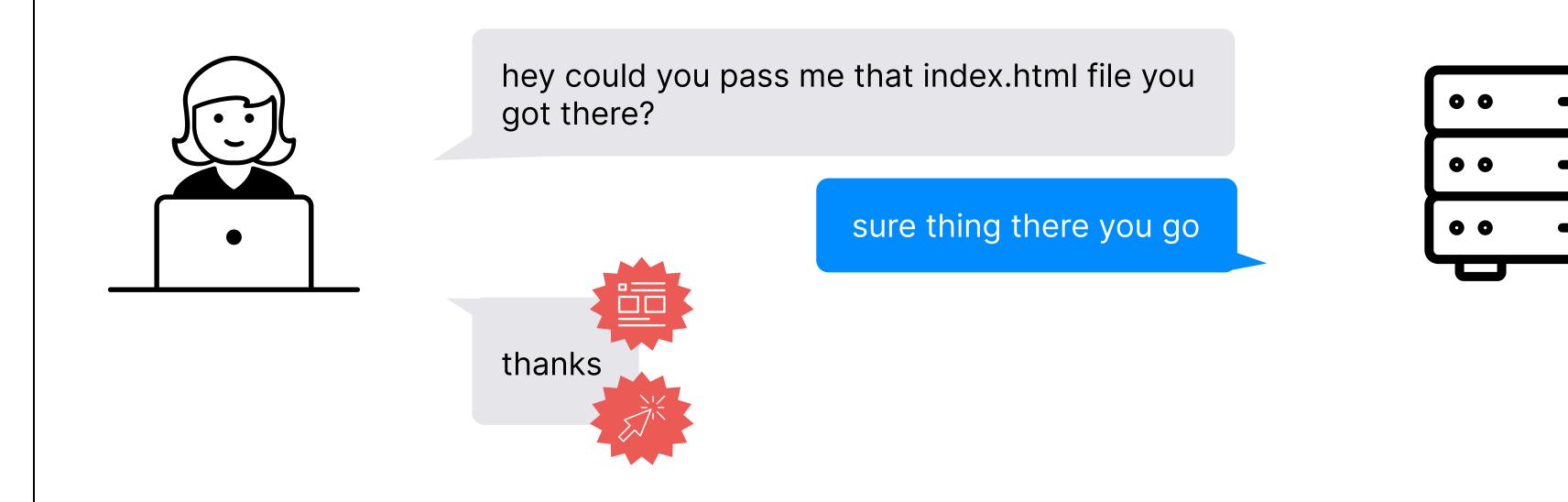
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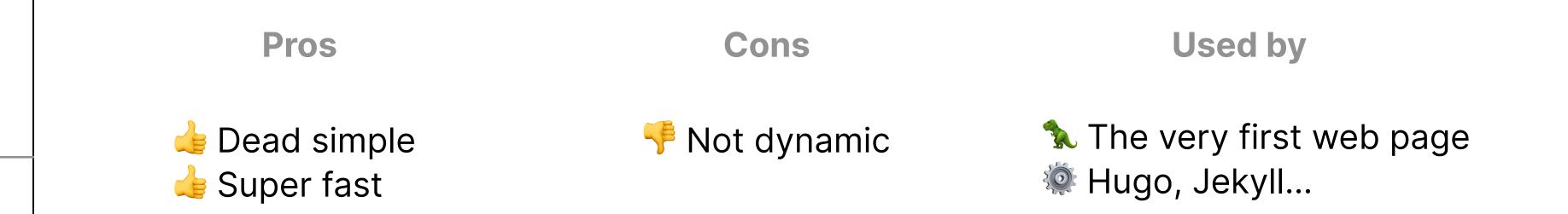
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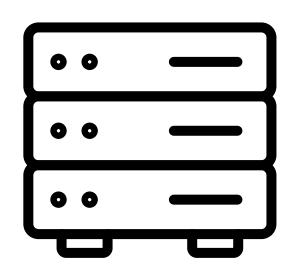
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Server Rendering (late 1990s-)







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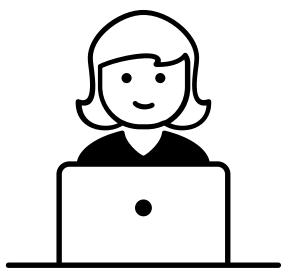
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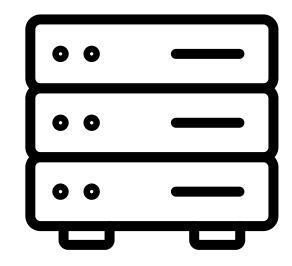
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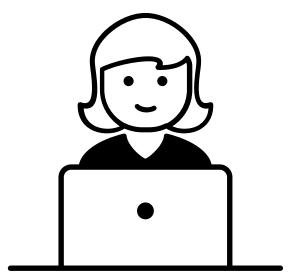
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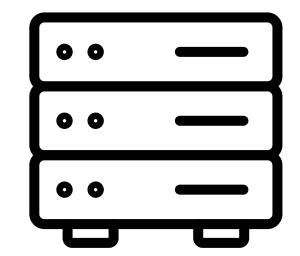
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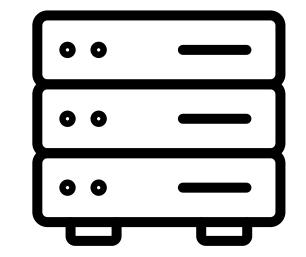
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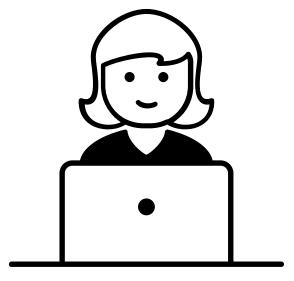
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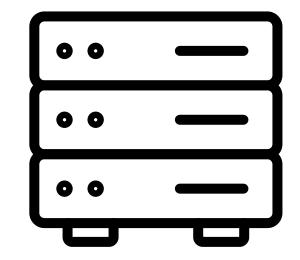
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here they are



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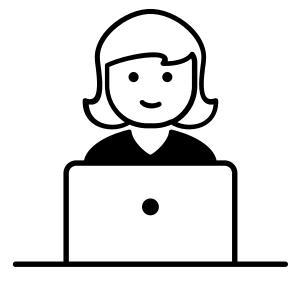
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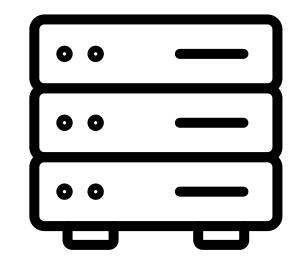
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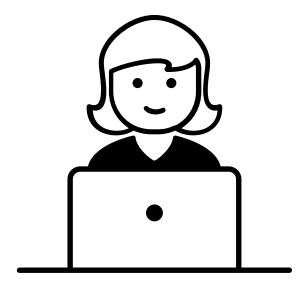
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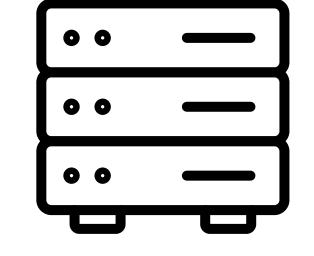
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Pros

First Paint is interactive

Does not depend on user's device



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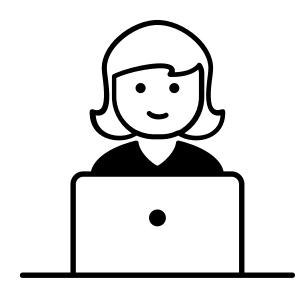
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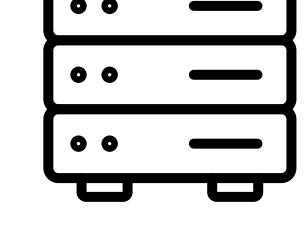
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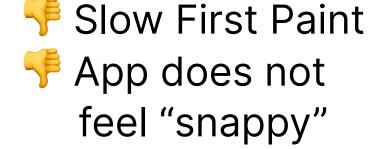


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Cons





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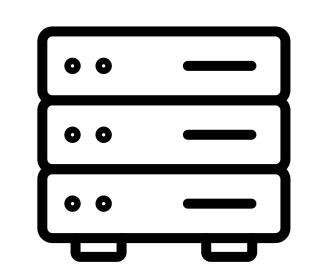
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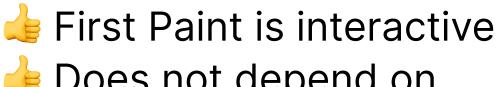
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Server Rendering (late 1990s-)





Pros Cons Used by



Does not depend on user's device

Slow First Paint
App does not feel "snappy"

Django, Rails, Symfony...



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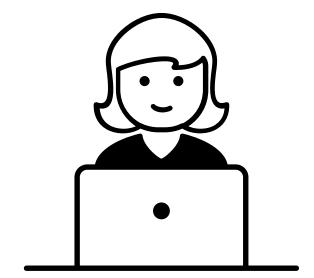
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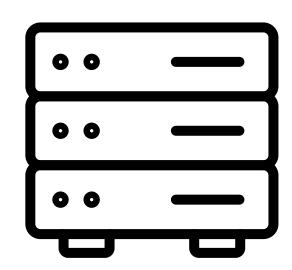
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Client-Side Rendering (2014–)







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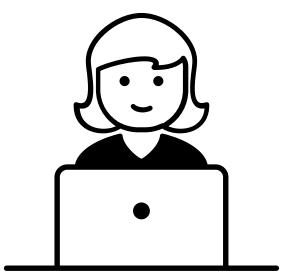
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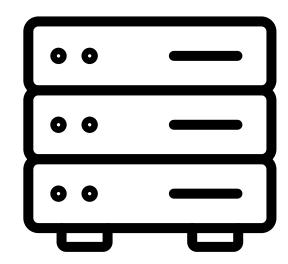
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oooh this trip-planning app looks cool can i use it?





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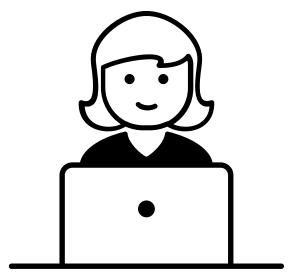
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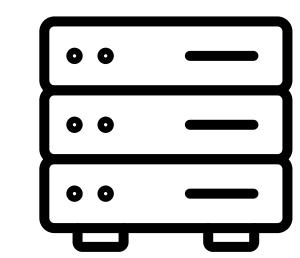
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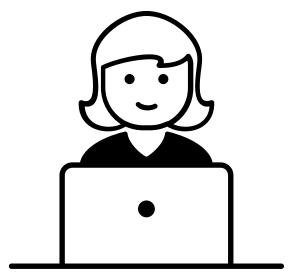
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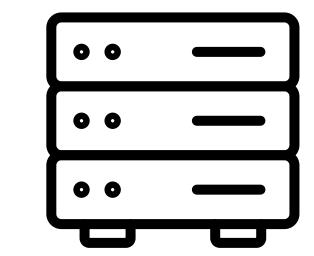
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wow rude but ok



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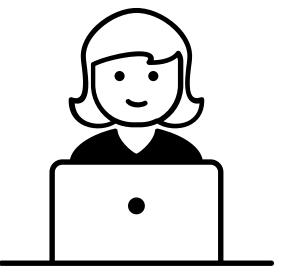
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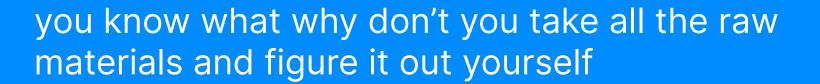
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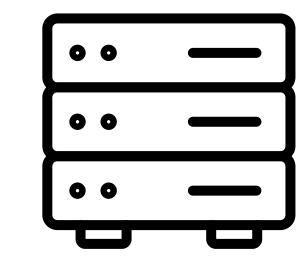
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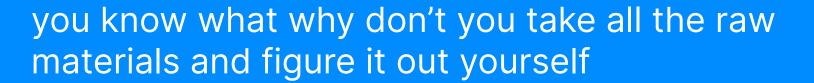
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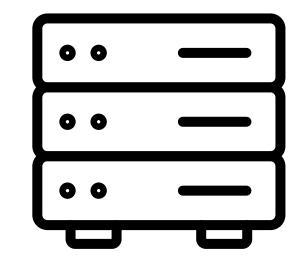
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A HISTORY

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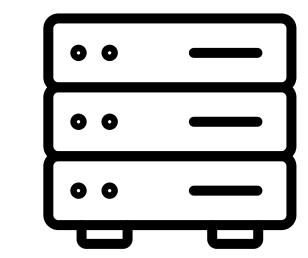
- > THE PROMISES OF GATSBYJS
- PERFORMANCE IS A LONG GAME

Client-Side Rendering (2014–)



oooh this trip-planning app looks cool can i use it?





wow rude but ok



Pros



App-like User experience





- > WHY PERFORMANCE MATTERS
- ✓ AN ORAL HISTORY OF WEB

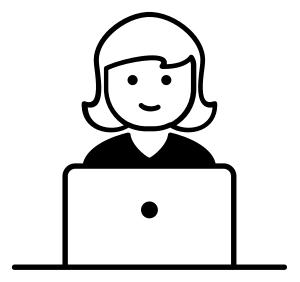
 DEVELOPMENT

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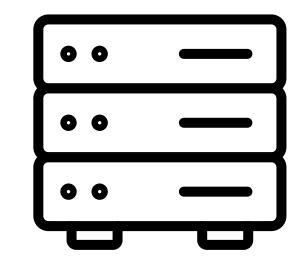
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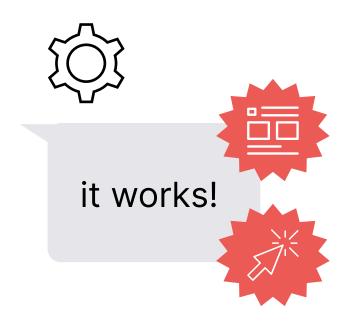


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Pros

App-like User experienceAPI-first Dev experience

Cons





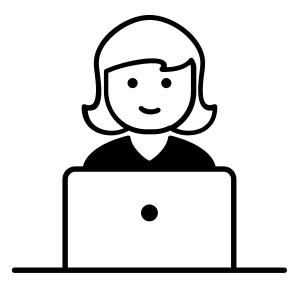
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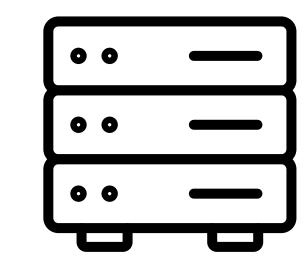
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Cons Used by Pros



App-like User experience



Slow First Paint Slow Time to Interactive

Angular, React, Vue...



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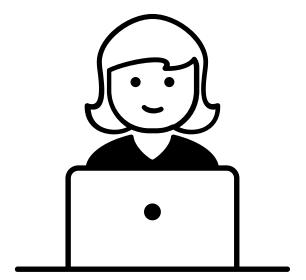
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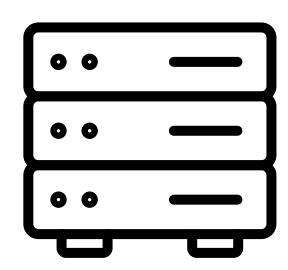
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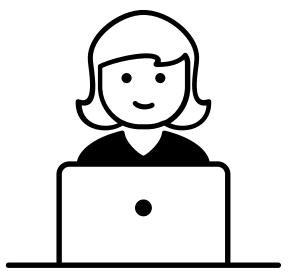
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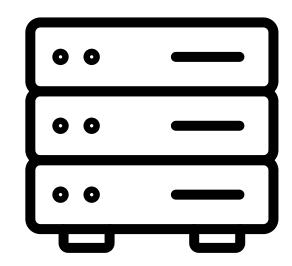
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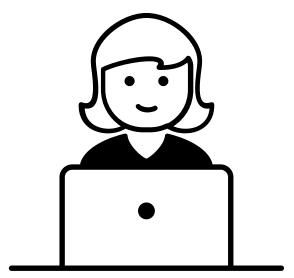
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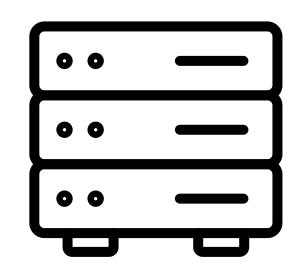
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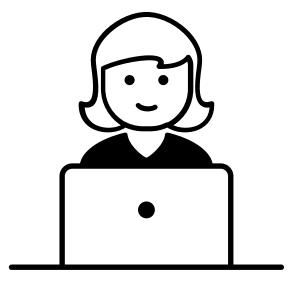
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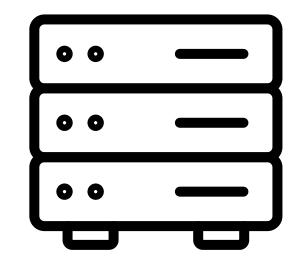
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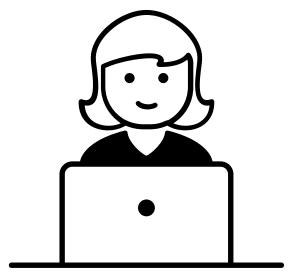
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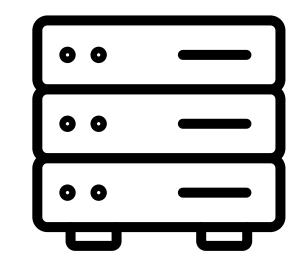
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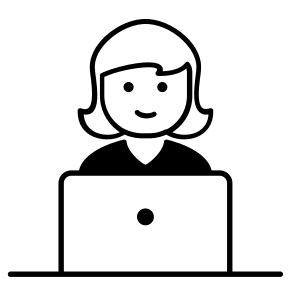
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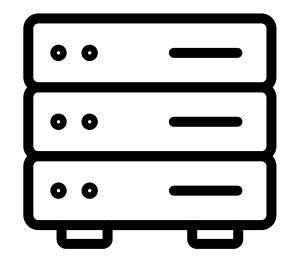
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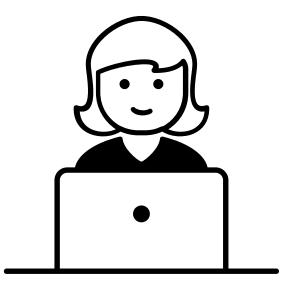
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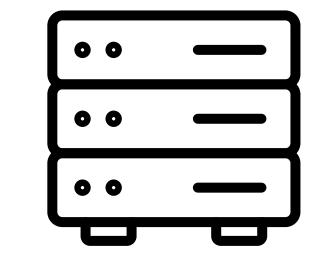
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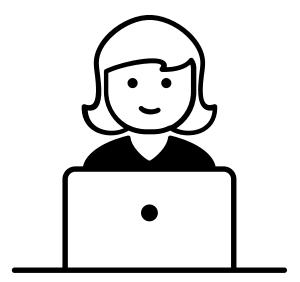
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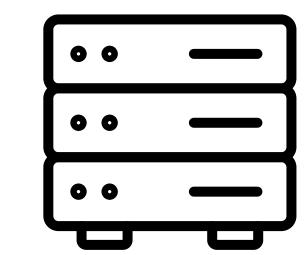
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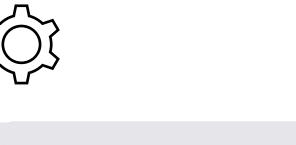


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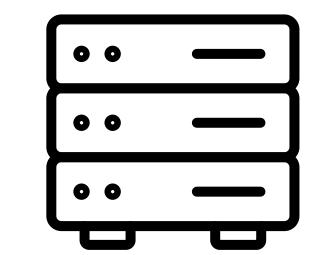
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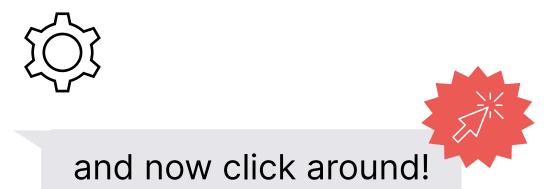


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Pros



App-like User experience





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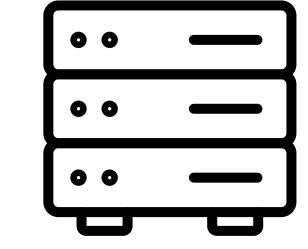
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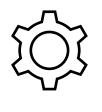


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Pros

Cons



App-like User experience



Slow Time to Interactive

Possible "rage clicks"



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 DEVELOPMENT

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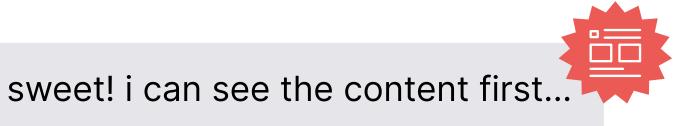
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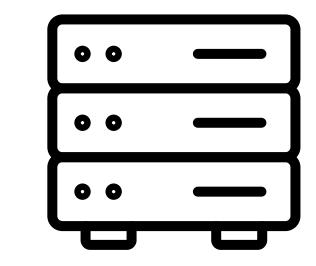
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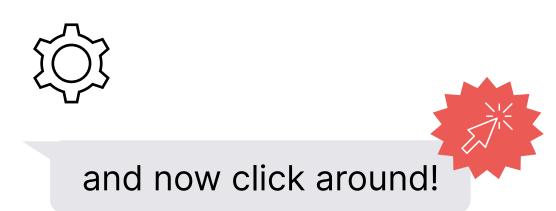
CSR with Rehydration (2016–)

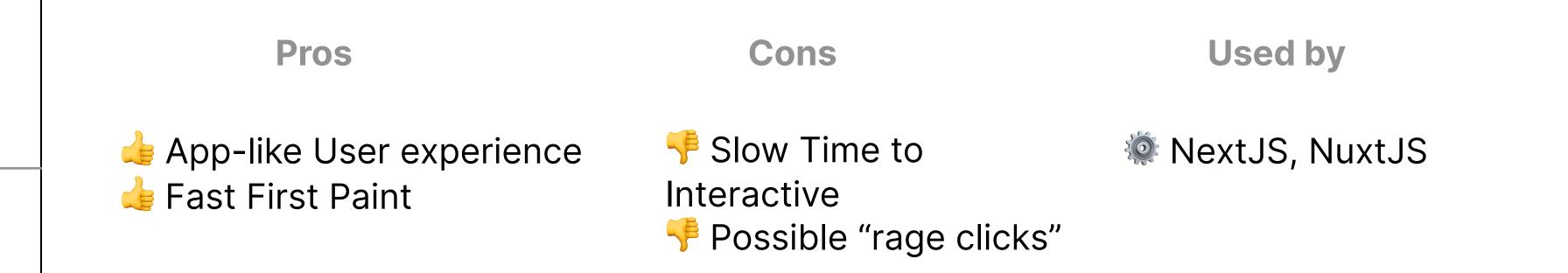


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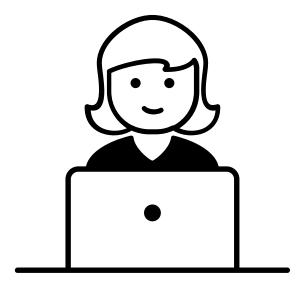
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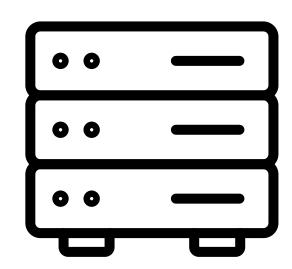
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CSR with Prerendering (2018–)







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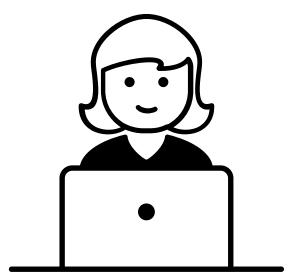
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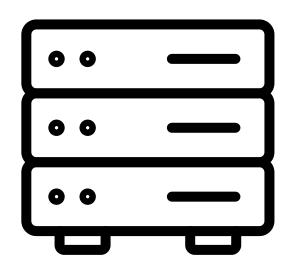
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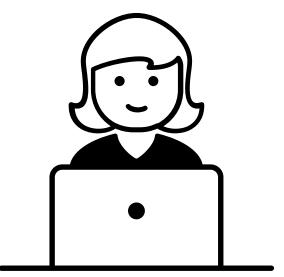
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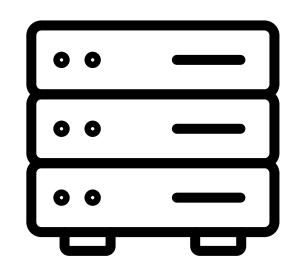
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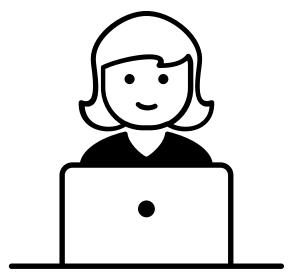
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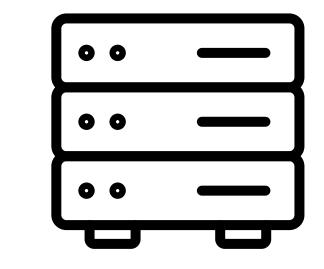
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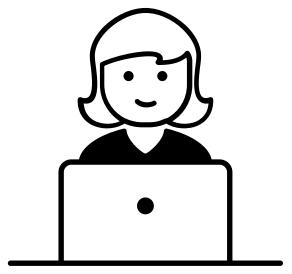
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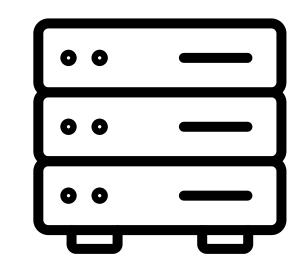
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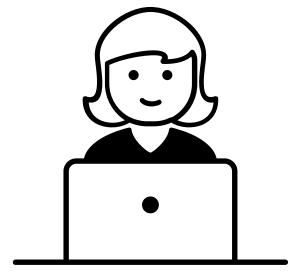
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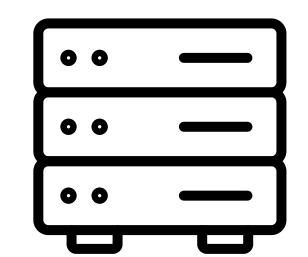
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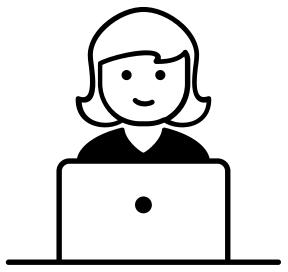
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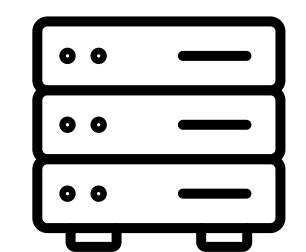
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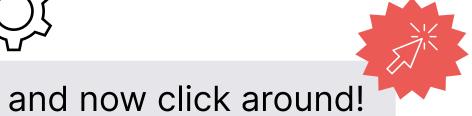
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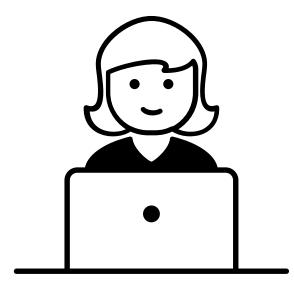
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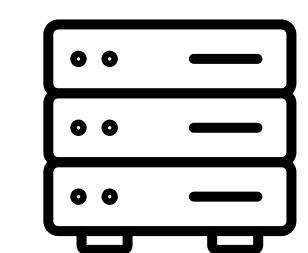
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Pros

- App-like User experience
- Fast First Paint
- No need for a backend



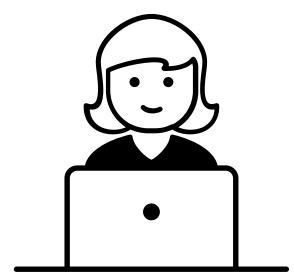
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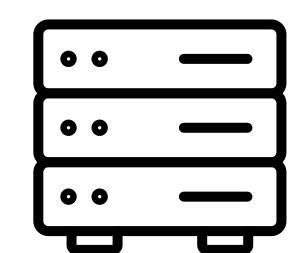
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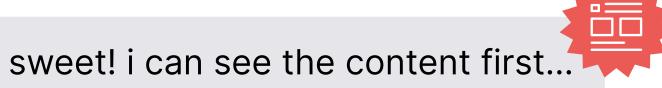


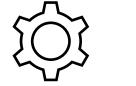
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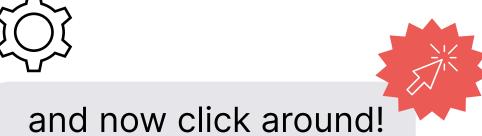
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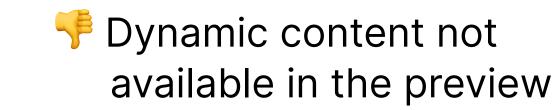






Cons Pros

- App-like User experience
- Fast First Paint
- No need for a backend





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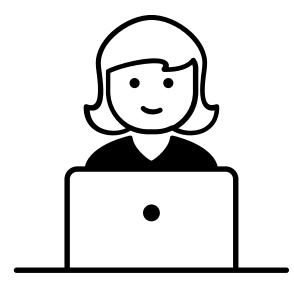
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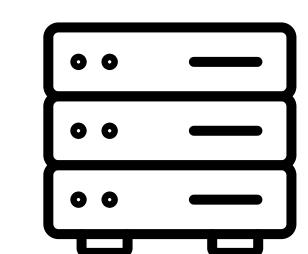
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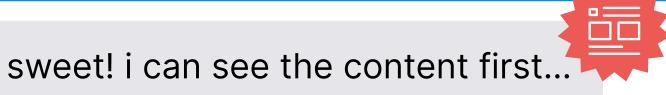


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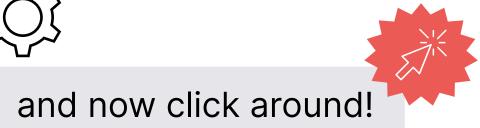
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Pros Cons Used by

- App-like User experience
- Fast First Paint
- No need for a backend
- Dynamic content not available in the preview
- GatsbyJS, Vuepress



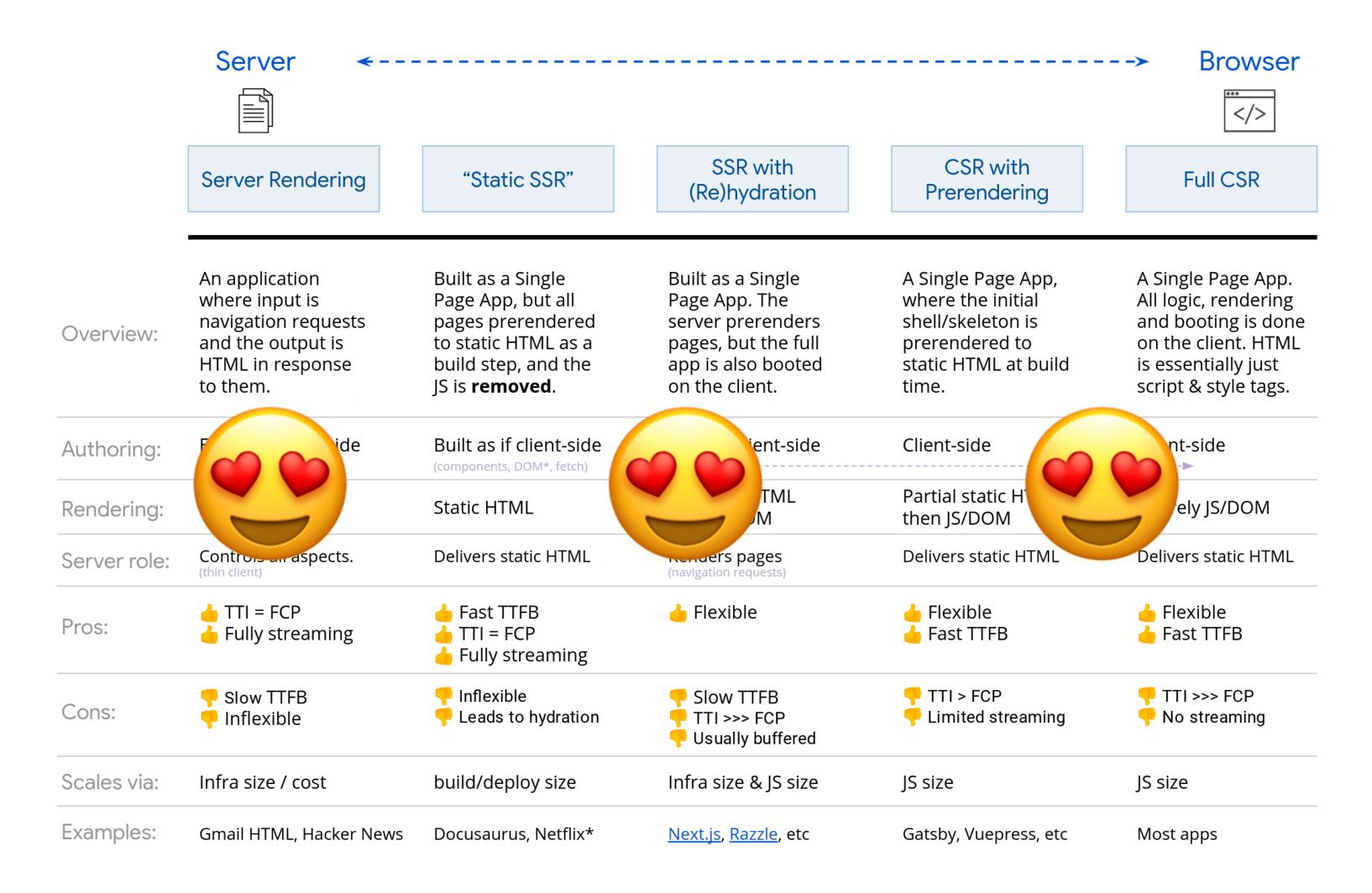
- > WHY PERFORMANCE MATTERS
- ✓ AN ORAL HISTORY OF WEB DEVELOPMENT

A HISTORY

RENDERING ON THE WEB

- > THE PROMISES OF GATSBYJS
- > PERFORMANCE IS A LONG GAME







Source: https://developers.google.com/web/updates/2019/02/rendering-on-the-web

- > WHY PERFORMANCE MATTERS
- > AN ORAL HISTORY OF WEB DEVELOPMENT
- > THE PROMISES OF GATSBYJS
- > PERFORMANCE IS A LONG GAME

The promises of GatsbyJS



- > WHY PERFORMANCE MATTERS
- > AN ORAL HISTORY OF WEB DEVELOPMENT
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WHAT IS GATSBYJS?

GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

> PERFORMANCE IS A LONG GAME

What is GatsbyJS?

Static Site Generators (SSGs)

Jekyll, Hugo, Middleman

- Build performant websites
- Little to no backend
- Off-the-shelf themes

Progressive Web Apps (PWAs)

React, Vue, Angular

- App-like, snappy experience
- Easily reuse code & components
- → Build interactive websites



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- > AN ORAL HISTORY OF WEB DEVELOPMENT
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GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

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Static Progressive Web Apps

GatsbyJS

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- **▼ THE PROMISES OF GATSBYJS**

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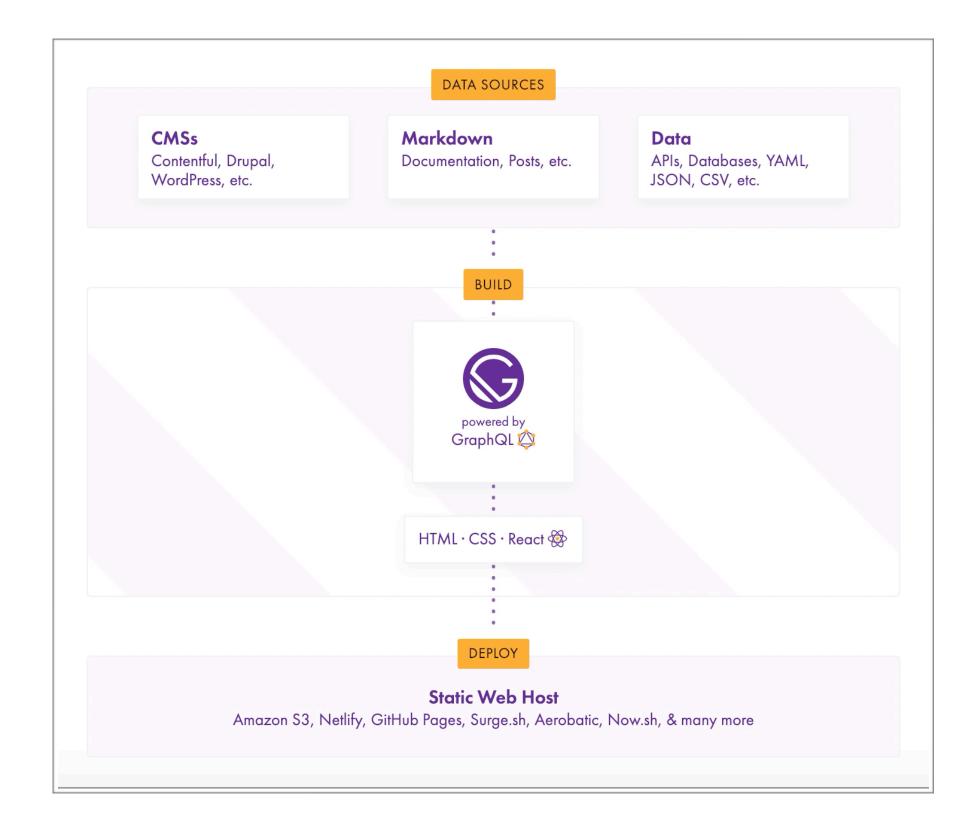
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- **▼ THE PROMISES OF GATSBYJS**

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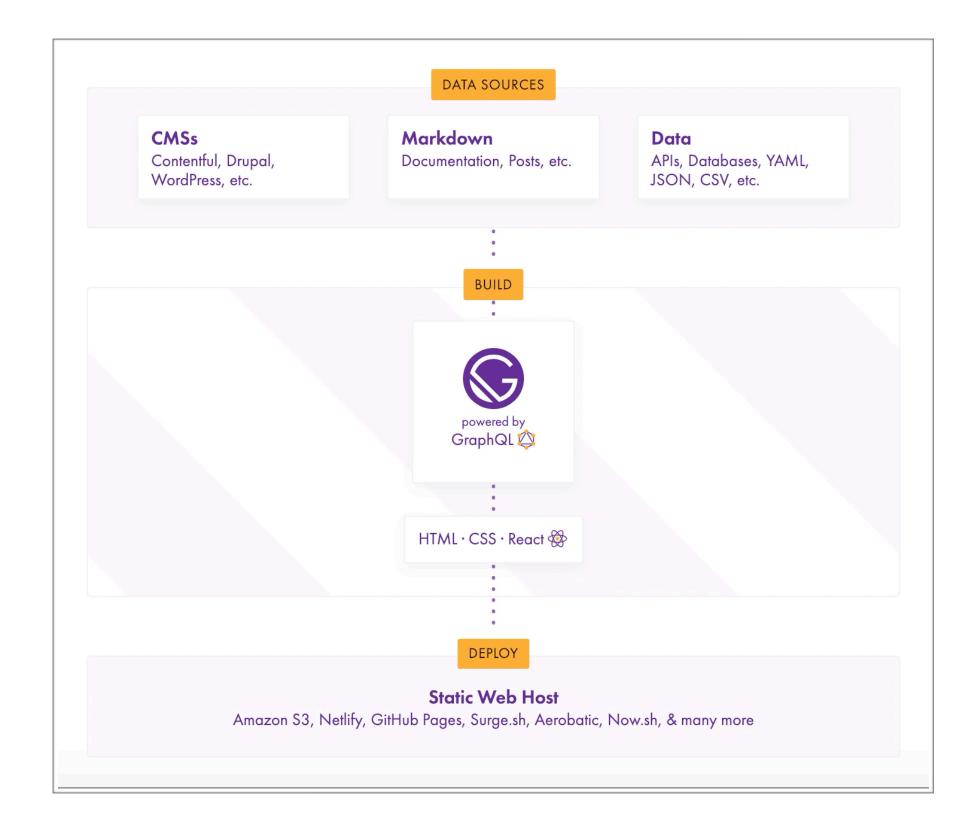
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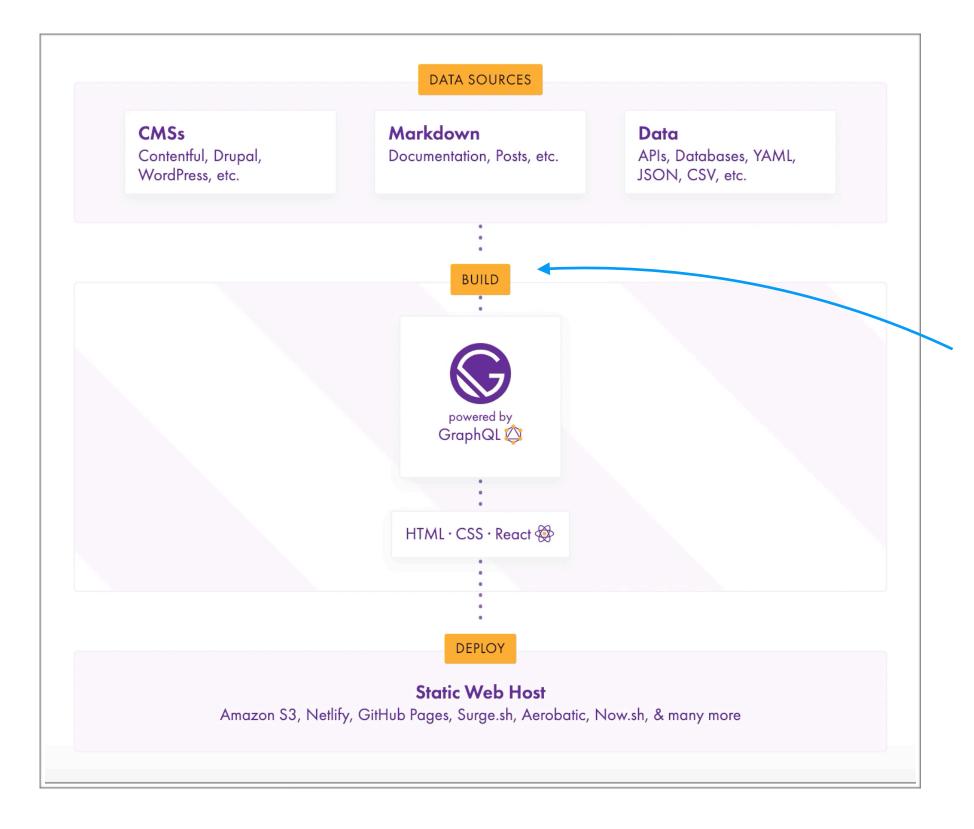
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GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

> PERFORMANCE IS A LONG GAME

What is GatsbyJS?



The SSG part relies on NodeJS and GraphQL



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- > AN ORAL HISTORY OF WEB DEVELOPMENT
- ▼ THE PROMISES OF GATSBYJS

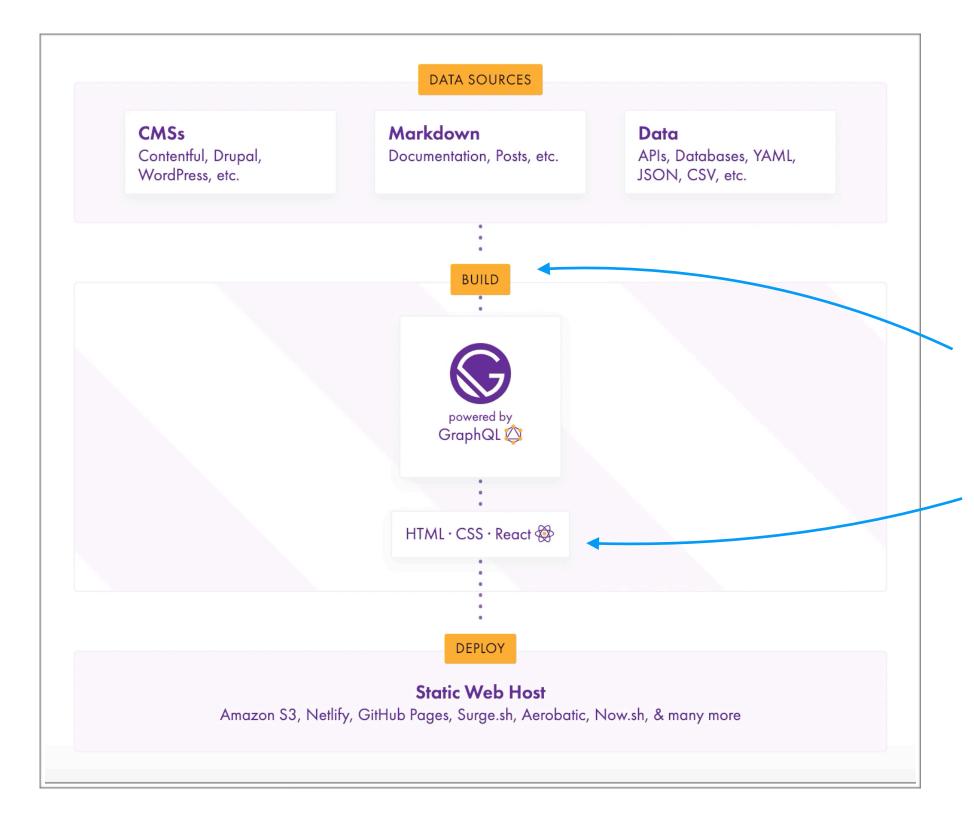
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GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

> PERFORMANCE IS A LONG GAME

What is GatsbyJS?



The SSG part relies on NodeJS and GraphQL

The SPA part is a fully-featured React application



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- > AN ORAL HISTORY OF WEB DEVELOPMENT
- **✓ THE PROMISES OF GATSBYJS**

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GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

> PERFORMANCE IS A LONG GAME



X Static or weakly dynamic data at build time



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- > AN ORAL HISTORY OF WEB DEVELOPMENT
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GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

> PERFORMANCE IS A LONG GAME



X Static or weakly dynamic data at build time

A Highly dynamic data at runtime



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- > AN ORAL HISTORY OF WEB DEVELOPMENT
- **▼ THE PROMISES OF GATSBYJS**

WHAT IS GATSBYJS?

GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

> PERFORMANCE IS A LONG GAME



Gatsby as a Static Site Generator: Gatsby Plugins

Any datasource

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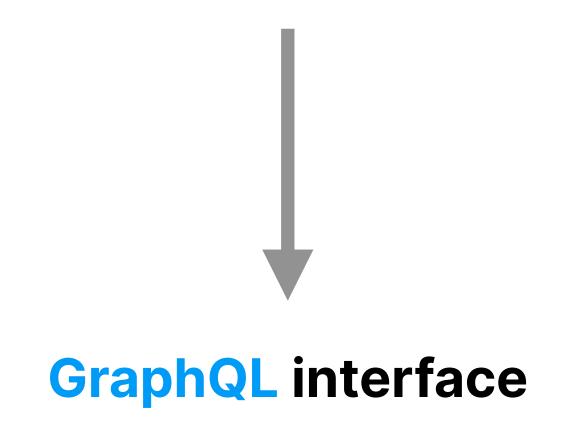
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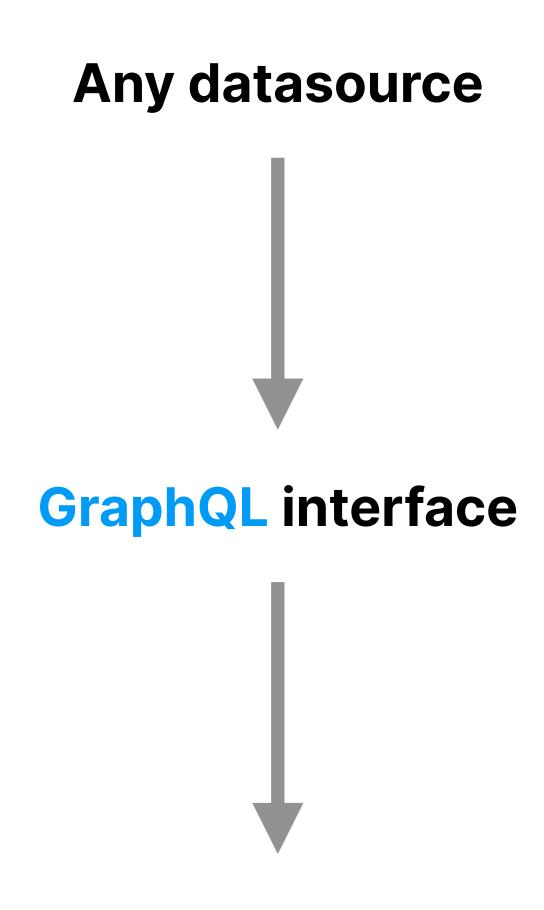
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GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

> PERFORMANCE IS A LONG GAME







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- > AN ORAL HISTORY OF WEB DEVELOPMENT
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WHAT IS GATSBYJS?

GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

> PERFORMANCE IS A LONG GAME







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- > AN ORAL HISTORY OF WEB DEVELOPMENT
- ✓ THE PROMISES OF GATSBYJS

WHAT IS GATSBYJS?

GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

> PERFORMANCE IS A LONG GAME







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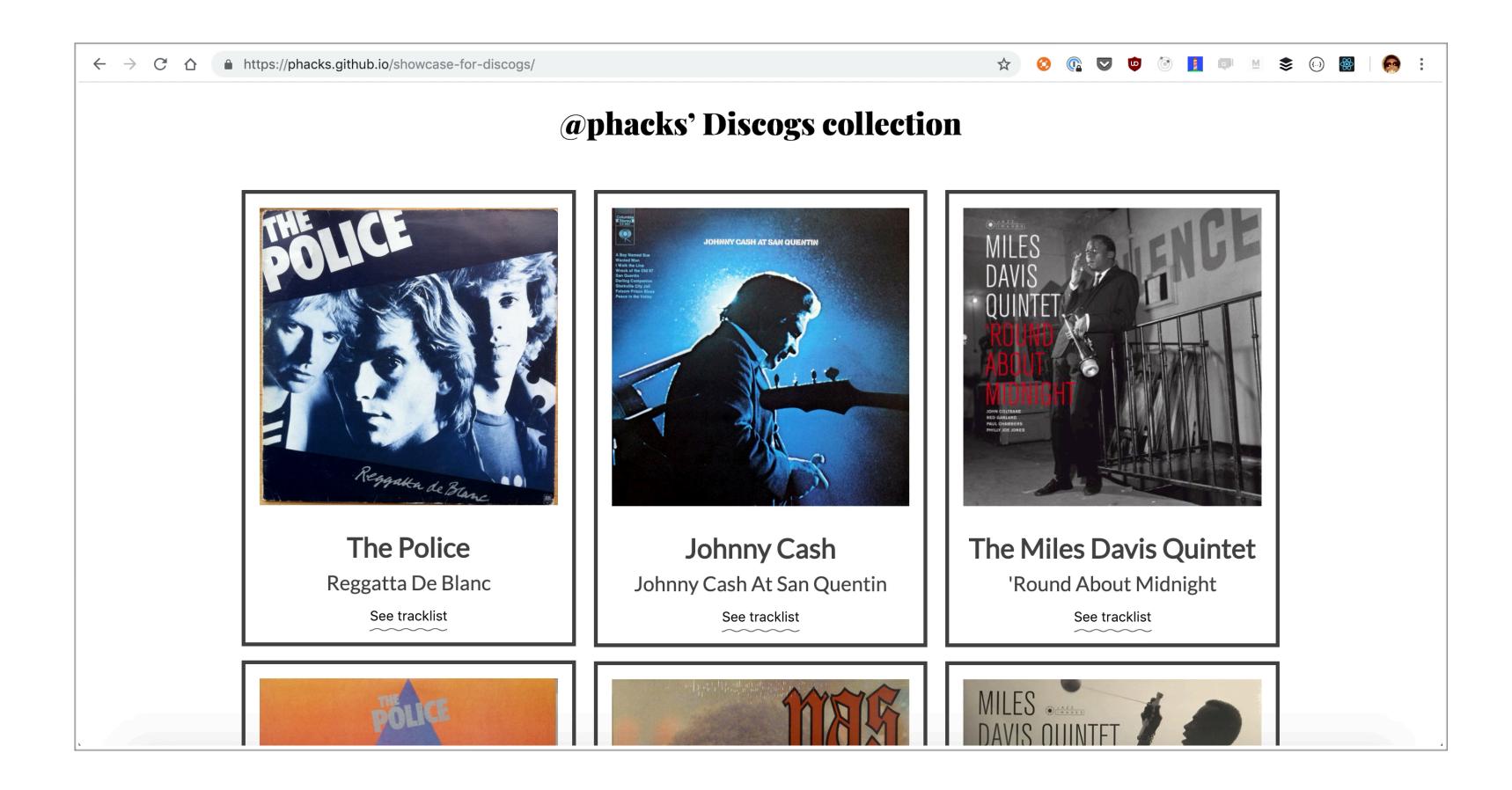
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GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

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https://phacks.github.io/showcase-for-discogs/
https://github.com/phacks/showcase-for-discogs



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- > AN ORAL HISTORY OF WEB DEVELOPMENT
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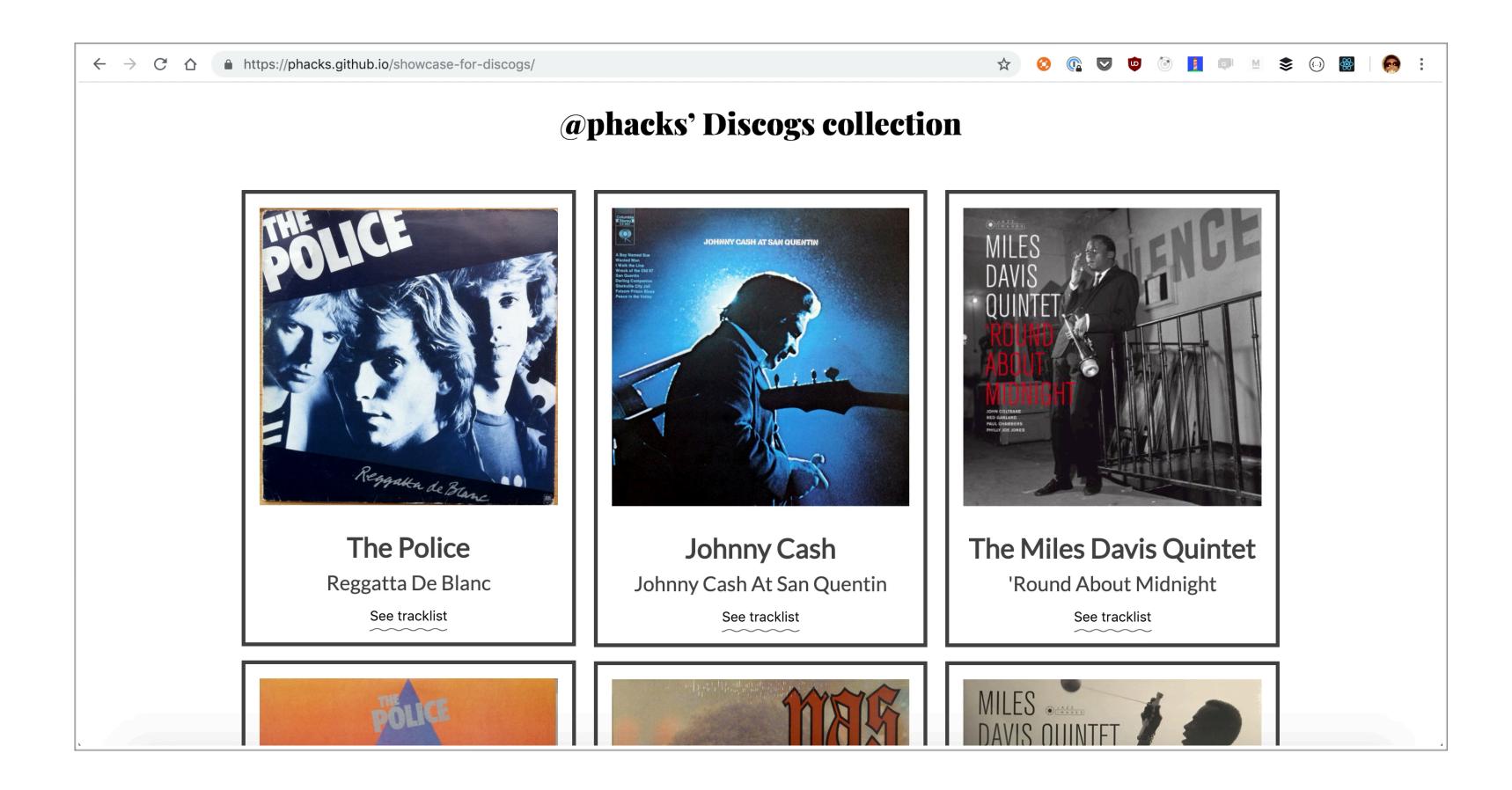
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GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

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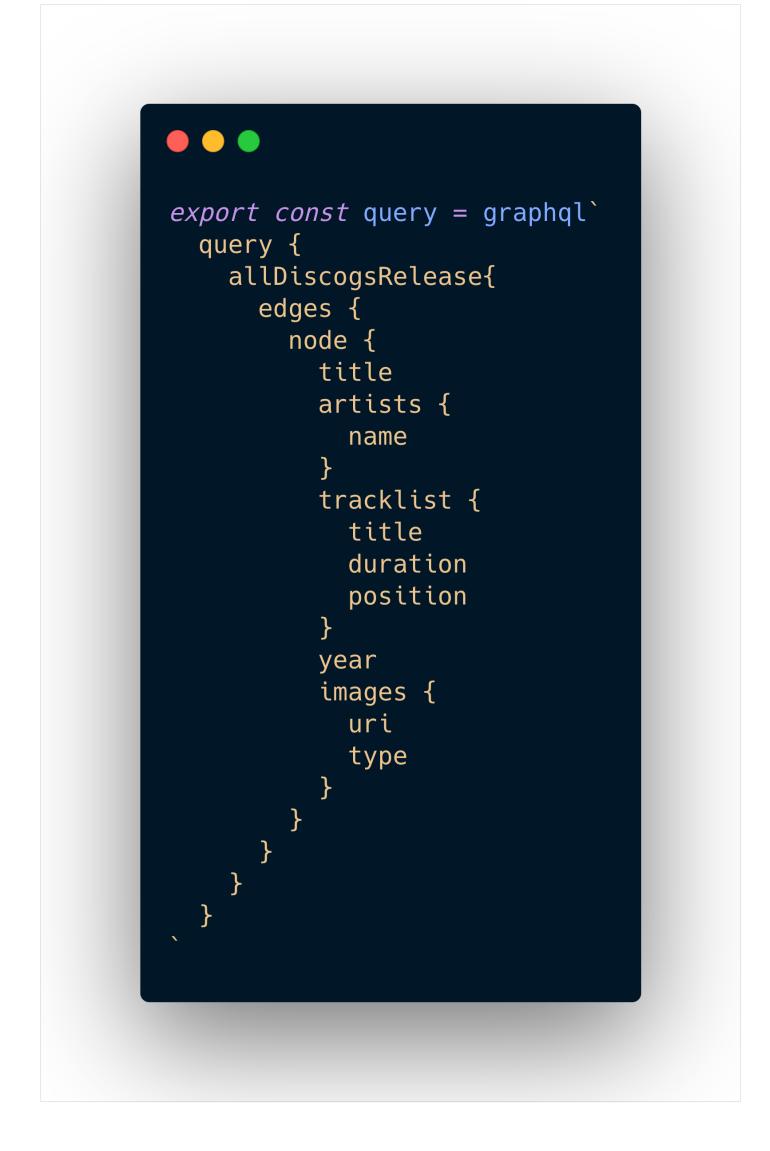
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GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

> PERFORMANCE IS A LONG GAME







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- > AN ORAL HISTORY OF WEB DEVELOPMENT
- **✓ THE PROMISES OF GATSBYJS**

WHAT IS GATSBYJS?

GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

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```
const IndexPage = ({data}) => (
  <Layout>
    <Discography>
      {data.allDiscogsRelease.edges.map(release =>
        <Release release={{</pre>
          artist: release.node.artists[0].name,
          imageUrl: release.node.images.find(image => image.type === 'primary')
            ? release.node.images.find(image => image.type === 'primary').uri
            : release.node.images.find(image => image.type === 'secondary').uri,
          title: release.node.title,
          tracklist: release.node.tracklist.map(track => ({
            duration: track.duration,
            title: track.title,
            position: track.position
          })),
          year: release.node.year
        }} />)}
    </Discography>
  </Layout>
```

- > WHY PERFORMANCE MATTERS
- > AN ORAL HISTORY OF WEB DEVELOPMENT
- ✓ THE PROMISES OF GATSBYJS

WHAT IS GATSBYJS?

GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

> PERFORMANCE IS A LONG GAME



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- > AN ORAL HISTORY OF WEB DEVELOPMENT
- **✓ THE PROMISES OF GATSBYJS**

WHAT IS GATSBYJS?

GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

> PERFORMANCE IS A LONG GAME





- > WHY PERFORMANCE MATTERS
- > AN ORAL HISTORY OF WEB DEVELOPMENT
- **▼ THE PROMISES OF GATSBYJS**

WHAT IS GATSBYJS?

GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

> PERFORMANCE IS A LONG GAME





Custom plugins



- > WHY PERFORMANCE MATTERS
- > AN ORAL HISTORY OF WEB DEVELOPMENT
- ▼ THE PROMISES OF GATSBYJS

WHAT IS GATSBYJS?

GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

> PERFORMANCE IS A LONG GAME





Custom plugins



Public and private APIs.



- > WHY PERFORMANCE MATTERS
- > AN ORAL HISTORY OF WEB DEVELOPMENT
- ✓ THE PROMISES OF GATSBYJS

WHAT IS GATSBYJS?

GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

PERFORMANCE IS A LONG GAME

Gatsby as a Static Site Generator: Gatsby Plugins



Custom plugins



Public and private APIs.



A few hours (but your mileage may vary)



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- > AN ORAL HISTORY OF WEB DEVELOPMENT
- ✓ THE PROMISES OF GATSBYJS

WHAT IS GATSBYJS?

GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

PERFORMANCE IS A LONG GAME

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Public and private APIs.



A few hours (but your mileage may vary)



https://github.com/phacks/gatsby-source-meetup/
https://www.gatsbyjs.org/docs/creating-a-source-plugin/

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- > AN ORAL HISTORY OF WEB DEVELOPMENT
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WHAT IS GATSBYJS?

GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

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Gatsby as a React Compiler: Performance optimizations

"I designed Gatsby with the goal that when using it, it'd be really hard to build a slow site"

— Kyle Matthews, GatsbyJS creator



- > WHY PERFORMANCE MATTERS
- > AN ORAL HISTORY OF WEB DEVELOPMENT
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WHAT IS GATSBYJS?

GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

> PERFORMANCE IS A LONG GAME

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- > WHY PERFORMANCE MATTERS
- > AN ORAL HISTORY OF WEB DEVELOPMENT
- ▼ THE PROMISES OF GATSBYJS

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GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

> PERFORMANCE IS A LONG GAME

Gatsby as a React Compiler: Performance optimizations

GatsbyJS implements state-of-the-art performance optimizations so that you don't have to

Automatic image optimizations



- > WHY PERFORMANCE MATTERS
- > AN ORAL HISTORY OF WEB DEVELOPMENT
- ▼ THE PROMISES OF GATSBYJS

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GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

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Gatsby as a React Compiler: Performance optimizations

- **Automatic image optimizations**
- **Mathematical Representations Built-in code and data splitting**



- > WHY PERFORMANCE MATTERS
- > AN ORAL HISTORY OF WEB DEVELOPMENT
- ▼ THE PROMISES OF GATSBYJS

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GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

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Gatsby as a React Compiler: Performance optimizations

- **Automatic image optimizations**
- **X** Built-in code and data splitting
- Link prefetching



- > WHY PERFORMANCE MATTERS
- > AN ORAL HISTORY OF WEB DEVELOPMENT
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GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

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- **Native lazy-loading**



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- > AN ORAL HISTORY OF WEB DEVELOPMENT
- **✓ THE PROMISES OF GATSBYJS**

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GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

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- **Automatic image optimizations**
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- > WHY PERFORMANCE MATTERS
- > AN ORAL HISTORY OF WEB DEVELOPMENT
- ▼ THE PROMISES OF GATSBYJS

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GATSBY PLUGINS

PERFORMANCE OPTIMIZATIONS

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Gatsby as a React Compiler: Performance optimizations

- **Markov** Automatic image optimizations
- **X** Built-in code and data splitting
- Link prefetching
- **Native lazy-loading**
- **Inlined critical CSS**
- **Offline support with Service Workers**



- > WHY PERFORMANCE MATTERS
- > AN ORAL HISTORY OF WEB DEVELOPMENT
- > THE PROMISES OF GATSBYJS
- > PERFORMANCE IS A LONG GAME

Performance is a long game



- > WHY PERFORMANCE MATTERS
- > AN ORAL HISTORY OF WEB DEVELOPMENT
- > THE PROMISES OF GATSBYJS
- **→** PERFORMANCE IS A LONG GAME

THE IMPORTANCE OF MONITORING

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Third party scripts have an impact

Average mobile impact. Source & methodology: https://www.thirdpartyweb.today/

- > WHY PERFORMANCE MATTERS
- > AN ORAL HISTORY OF WEB DEVELOPMENT
- > THE PROMISES OF GATSBYJS
- **→** PERFORMANCE IS A LONG GAME

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Third party scripts have an impact



Google Ad Manager costs 450ms



- > WHY PERFORMANCE MATTERS
- > AN ORAL HISTORY OF WEB DEVELOPMENT
- > THE PROMISES OF GATSBYJS
- **→** PERFORMANCE IS A LONG GAME

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Google Ad Manager



The YouTube video player costs 700ms



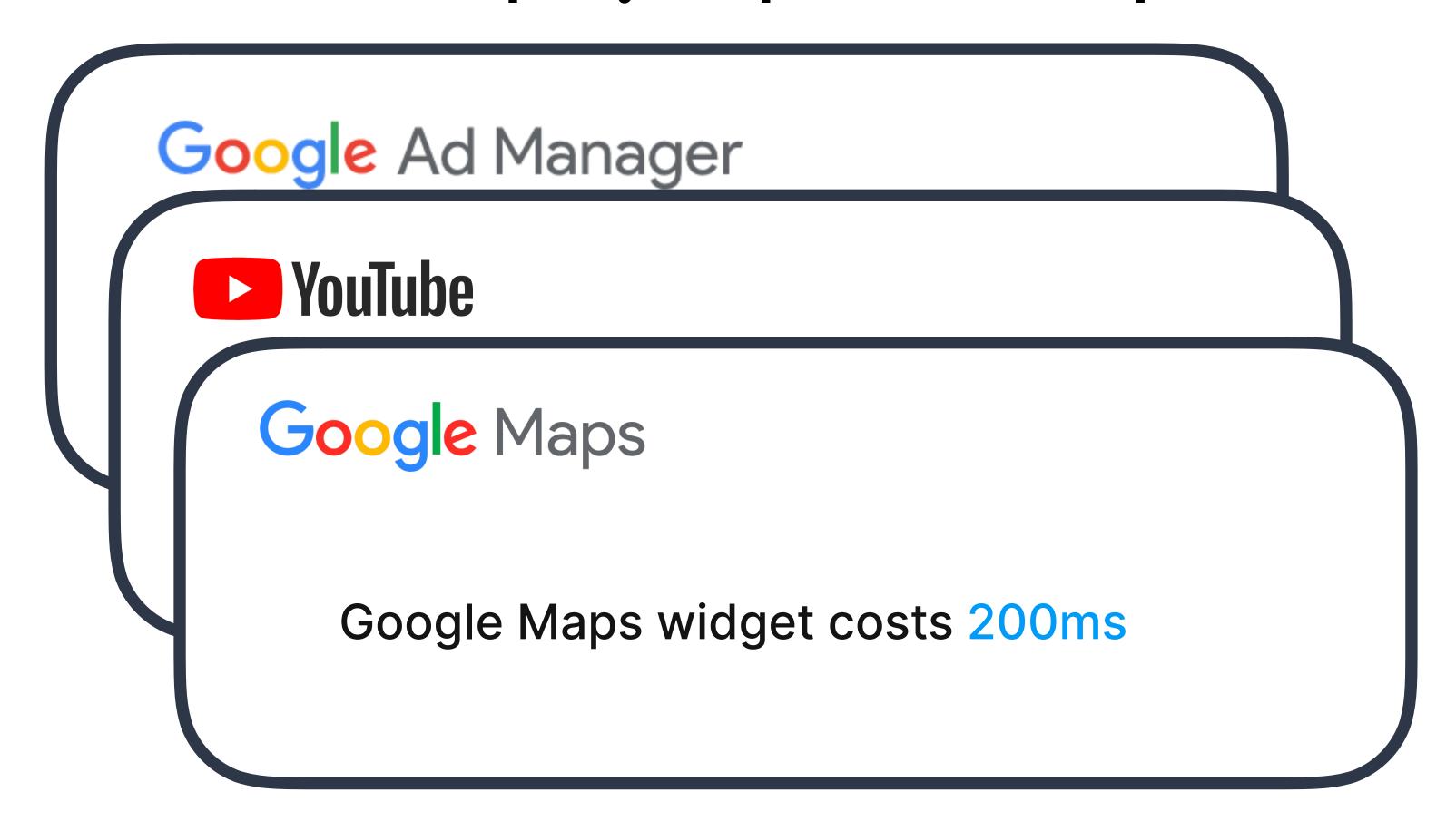
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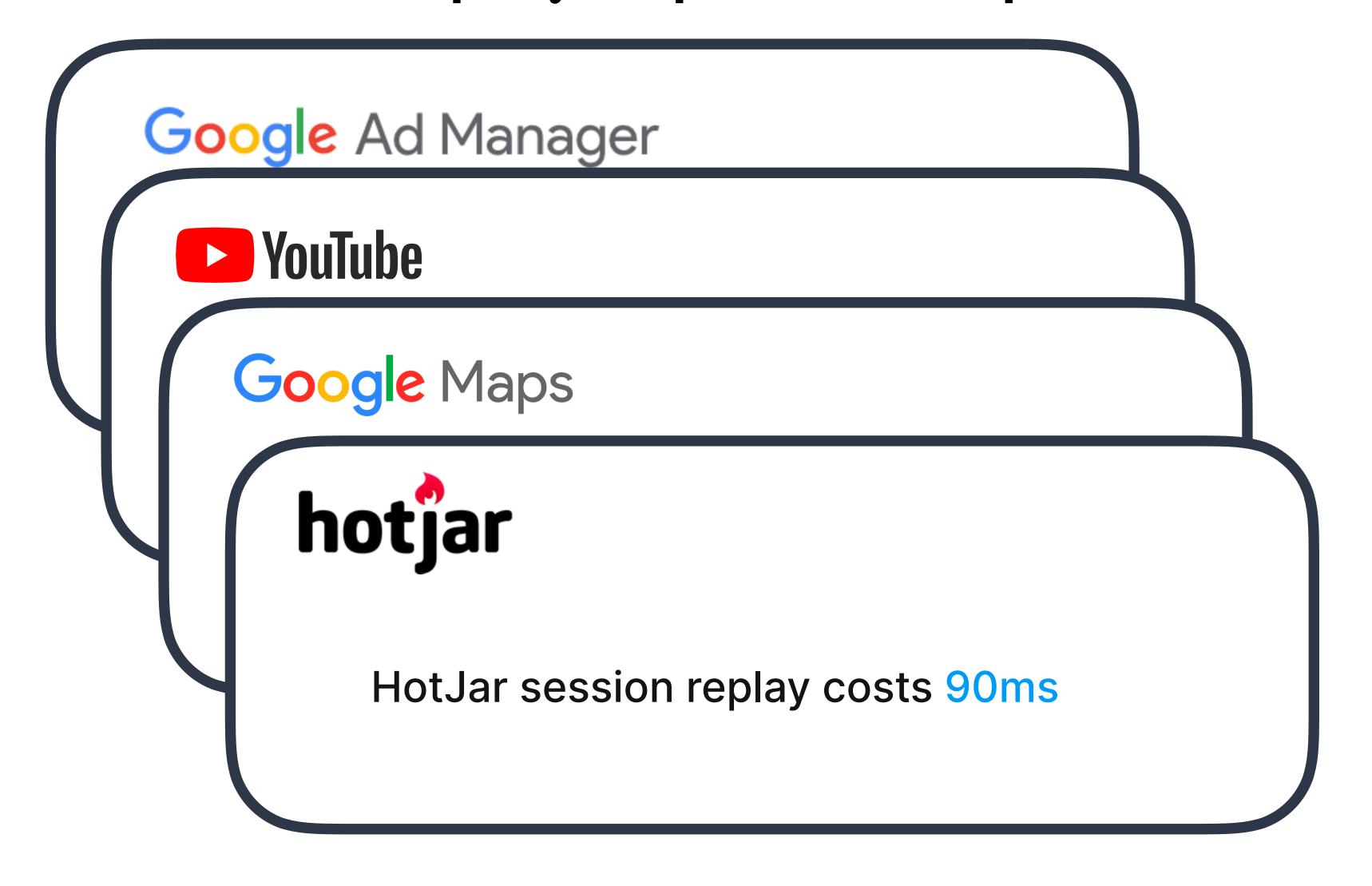
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- > AN ORAL HISTORY OF WEB DEVELOPMENT
- > THE PROMISES OF GATSBYJS
- **→** PERFORMANCE IS A LONG GAME

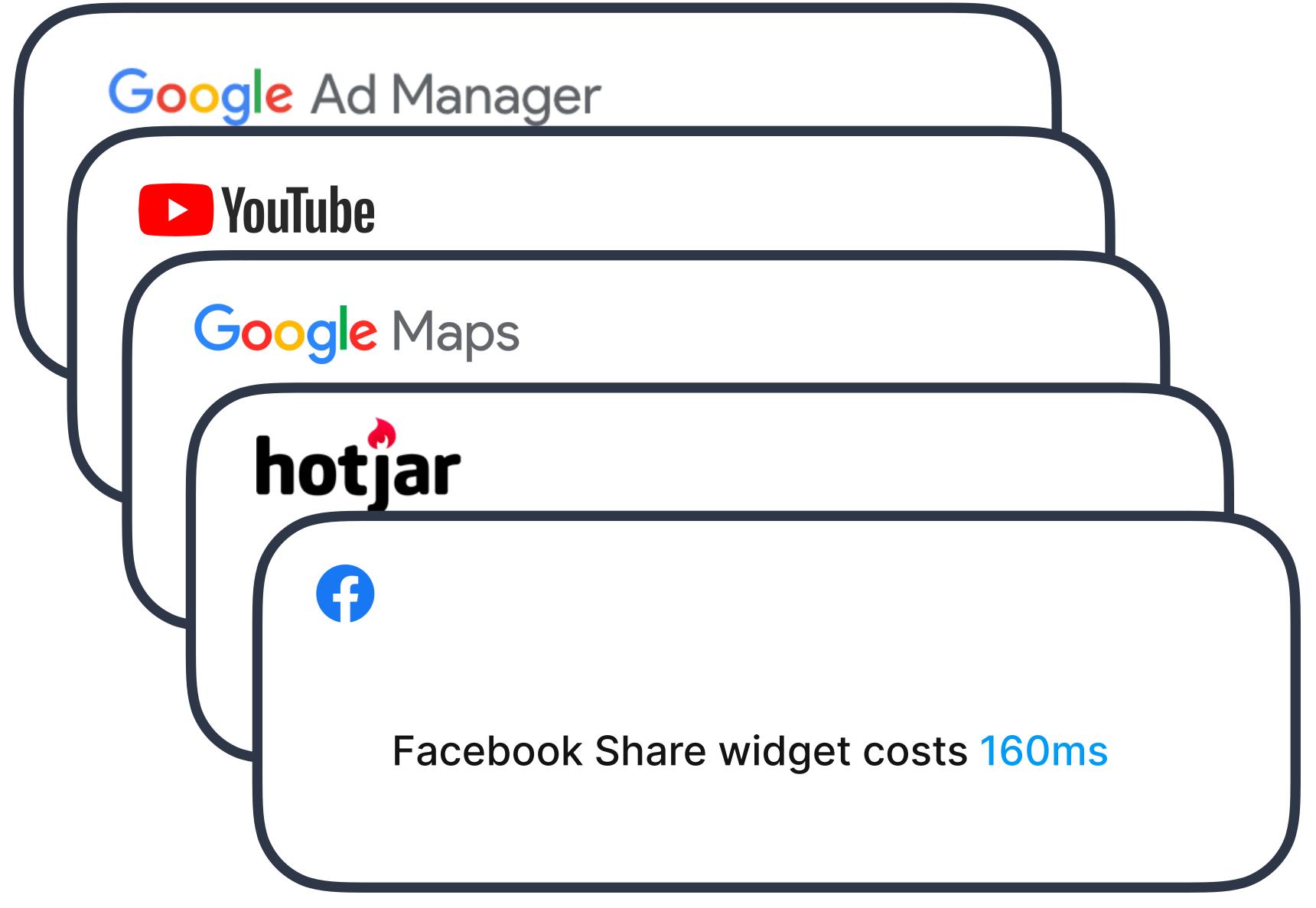
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- > AN ORAL HISTORY OF WEB DEVELOPMENT
- > THE PROMISES OF GATSBYJS
- **→** PERFORMANCE IS A LONG GAME

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JavaScript bloat has an impact

"Every 100KB of compressed JS results in a 3-4 second increase in Time to Interactive on a 3G connection"

— Paul Calvano

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- > AN ORAL HISTORY OF WEB DEVELOPMENT
- > THE PROMISES OF GATSBYJS
- ✓ PERFORMANCE IS A LONG GAME

THE IMPORTANCE OF MONITORING

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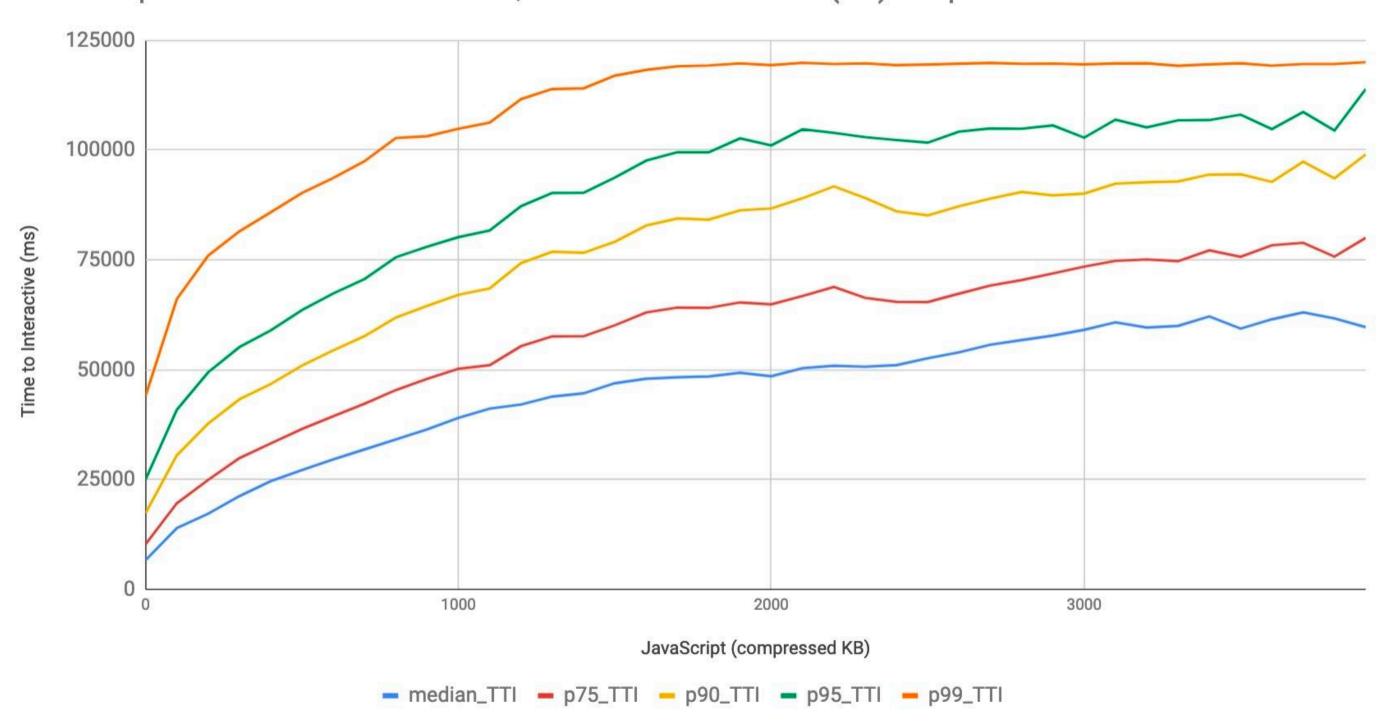


JavaScript bloat has an impact

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JavaScript KB vs Time to Interactive, HTTP Archive Mobile (3G) - September 2019



Source: https://twitter.com/paulcalvano/status/1179192810727186433

- > WHY PERFORMANCE MATTERS
- > AN ORAL HISTORY OF WEB DEVELOPMENT
- > THE PROMISES OF GATSBYJS
- **→** PERFORMANCE IS A LONG GAME

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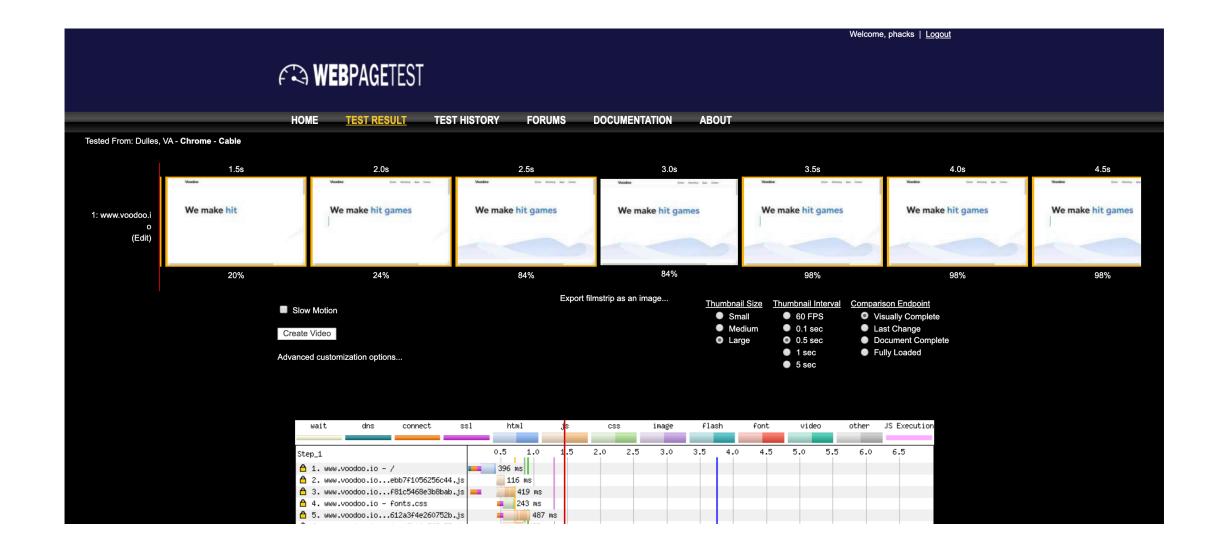
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Open Source performance auditing tools

WebPageTest



- > WHY PERFORMANCE MATTERS
- > AN ORAL HISTORY OF WEB DEVELOPMENT
- > THE PROMISES OF GATSBYJS
- **→** PERFORMANCE IS A LONG GAME

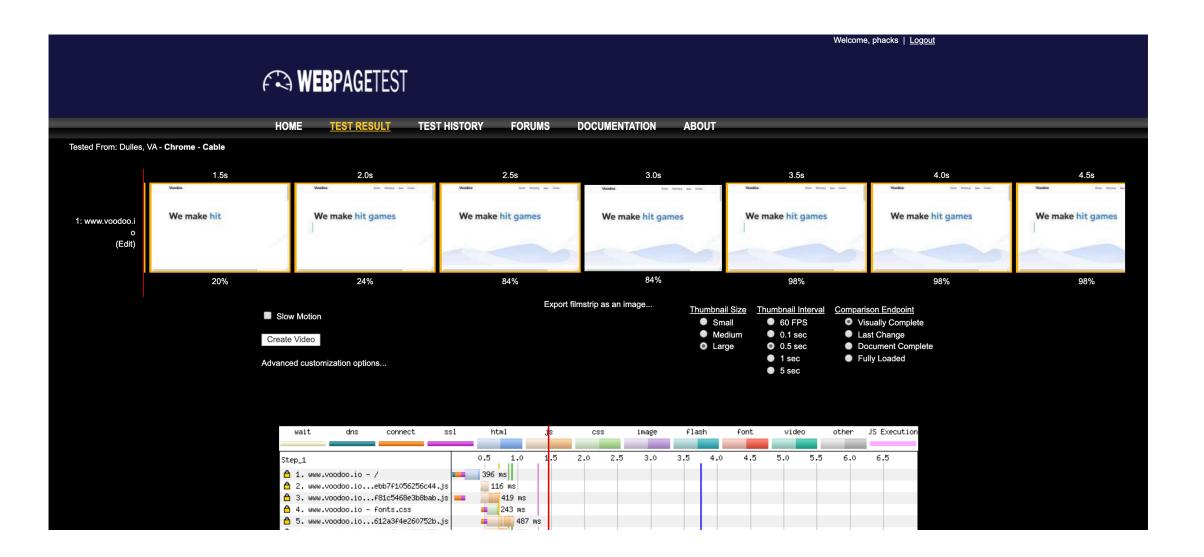
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Open Source performance auditing tools

WebPageTest



Tests on real devices (desktop, mobile) in several locations



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- > THE PROMISES OF GATSBYJS
- **→** PERFORMANCE IS A LONG GAME

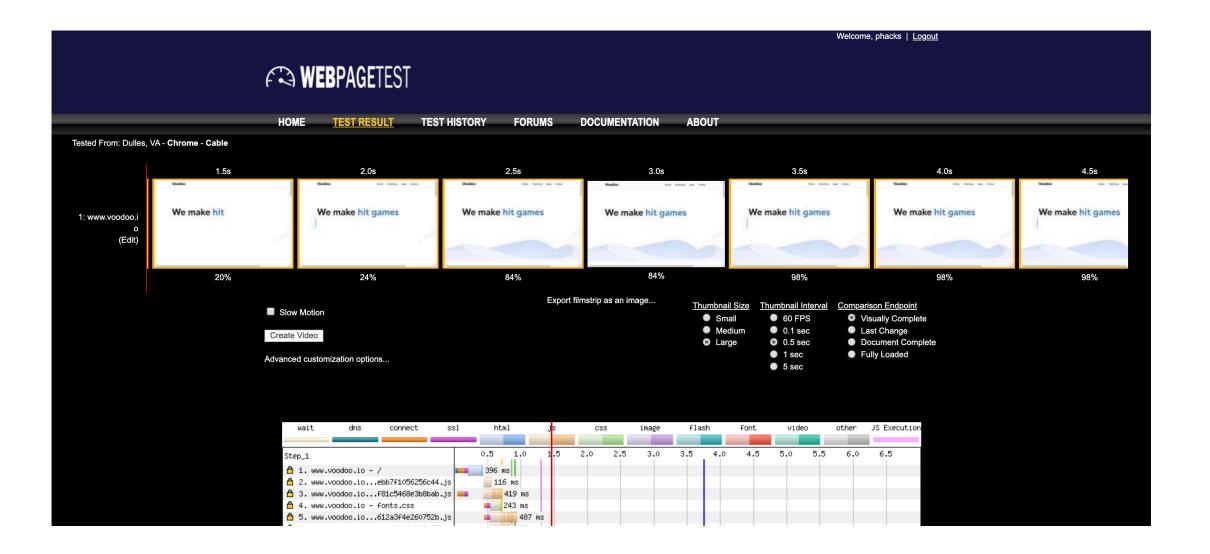
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Access to filmstrips and videos of the website's loading



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- > AN ORAL HISTORY OF WEB DEVELOPMENT
- > THE PROMISES OF GATSBYJS
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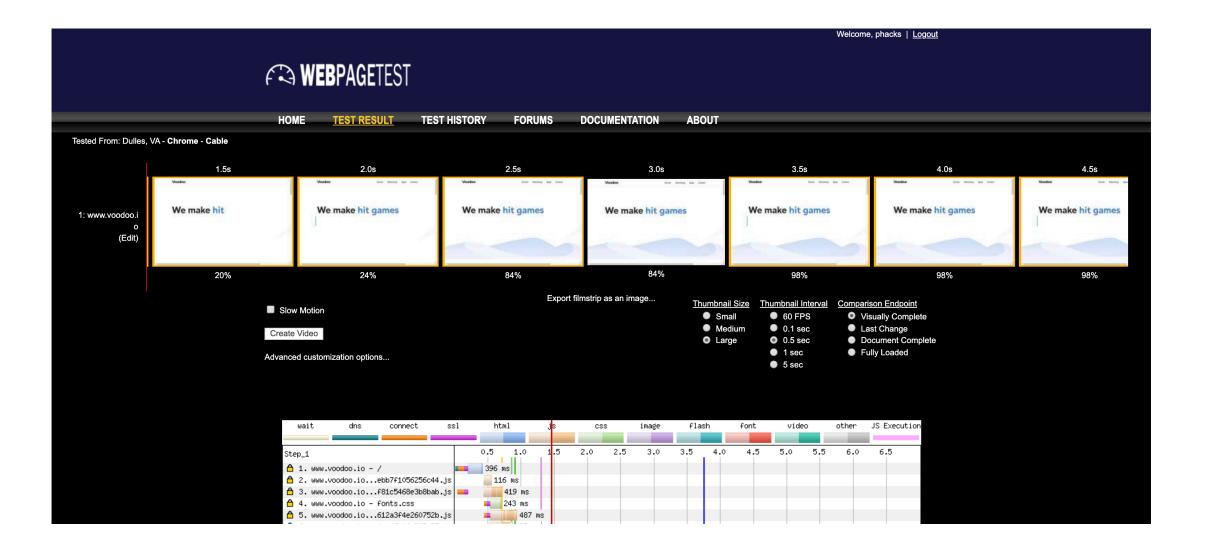
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Tests on real devices (desktop, mobile) in several locations

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Full Waterfall graph and HTTP requests infos to dive deeper

- > WHY PERFORMANCE MATTERS
- > AN ORAL HISTORY OF WEB DEVELOPMENT
- > THE PROMISES OF GATSBYJS
- **→ PERFORMANCE IS A LONG GAME**

THE IMPORTANCE OF MONITORING

OPEN SOURCE PERFORMANCE AUDIT TOOLS

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Performance audit automation



Recurrent and automated

- > WHY PERFORMANCE MATTERS
- > AN ORAL HISTORY OF WEB DEVELOPMENT
- > THE PROMISES OF GATSBYJS
- **→** PERFORMANCE IS A LONG GAME

THE IMPORTANCE OF MONITORING

OPEN SOURCE PERFORMANCE AUDIT TOOLS

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Performance audit automation



Recurrent and automated



Represent the diversity of our users



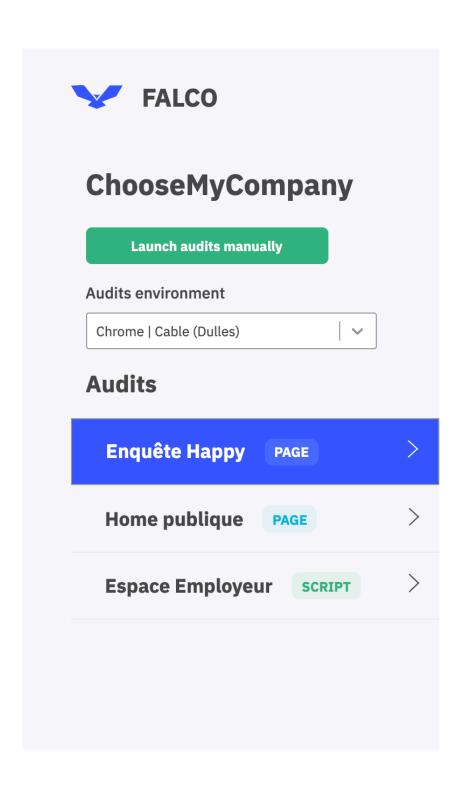
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THE IMPORTANCE OF MONITORING

OPEN SOURCE PERFORMANCE AUDIT TOOLS

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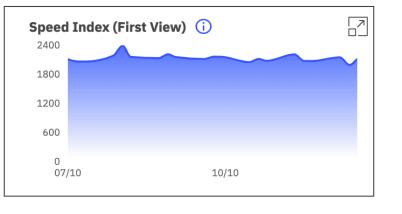
MY PROJECTS - MY ACCOUNT -

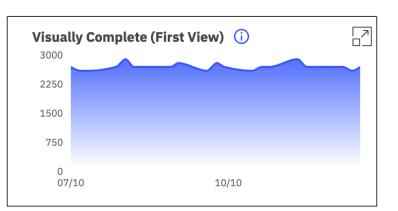
ChooseMyCompany / Enquête Happy

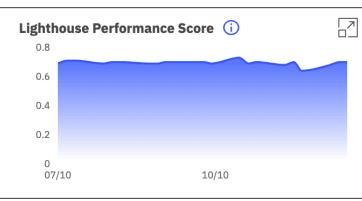
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Dashboard for the last week

Enters Falco











- > WHY PERFORMANCE MATTERS
- > AN ORAL HISTORY OF WEB DEVELOPMENT
- > THE PROMISES OF GATSBYJS
- **→** PERFORMANCE IS A LONG GAME

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OPEN SOURCE PERFORMANCE AUDIT TOOLS

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Falco, our WebPageTest runner



Multiple times a day in many conditions

- > WHY PERFORMANCE MATTERS
- > AN ORAL HISTORY OF WEB DEVELOPMENT
- > THE PROMISES OF GATSBYJS
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THE IMPORTANCE OF MONITORING

OPEN SOURCE PERFORMANCE AUDIT TOOLS

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Evolution of performance metrics

- > WHY PERFORMANCE MATTERS
- > AN ORAL HISTORY OF WEB DEVELOPMENT
- > THE PROMISES OF GATSBYJS
- ✓ PERFORMANCE IS A LONG GAME

THE IMPORTANCE OF MONITORING

OPEN SOURCE PERFORMANCE AUDIT TOOLS

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Evolution of performance metrics



Invite the whole team



- > WHY PERFORMANCE MATTERS
- > AN ORAL HISTORY OF WEB DEVELOPMENT
- > THE PROMISES OF GATSBYJS
- ✓ PERFORMANCE IS A LONG GAME

THE IMPORTANCE OF MONITORING

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Evolution of performance metrics



Invite the whole team



Individual URLs or entire user journeys



- > WHY PERFORMANCE MATTERS
- > AN ORAL HISTORY OF WEB DEVELOPMENT
- > THE PROMISES OF GATSBYJS
- ✓ PERFORMANCE IS A LONG GAME

THE IMPORTANCE OF MONITORING

OPEN SOURCE PERFORMANCE AUDIT TOOLS

ENTERS FALCO

Falco, our WebPageTest runner



Multiple times a day in many conditions



Evolution of performance metrics



Invite the whole team



Individual URLs or entire user journeys



Compare WebPageTest results between audits



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Falco will be Open Source



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Starting now



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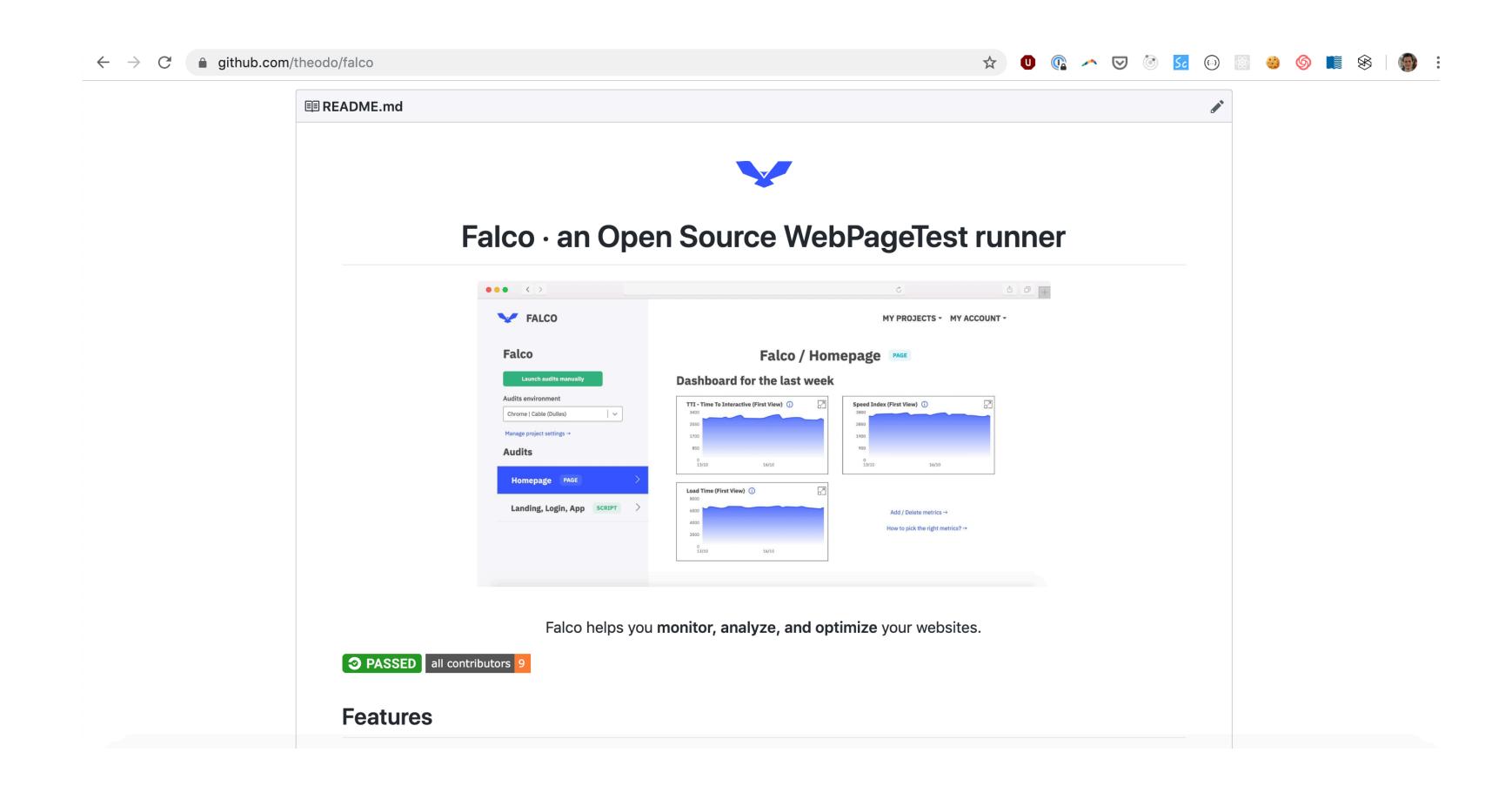
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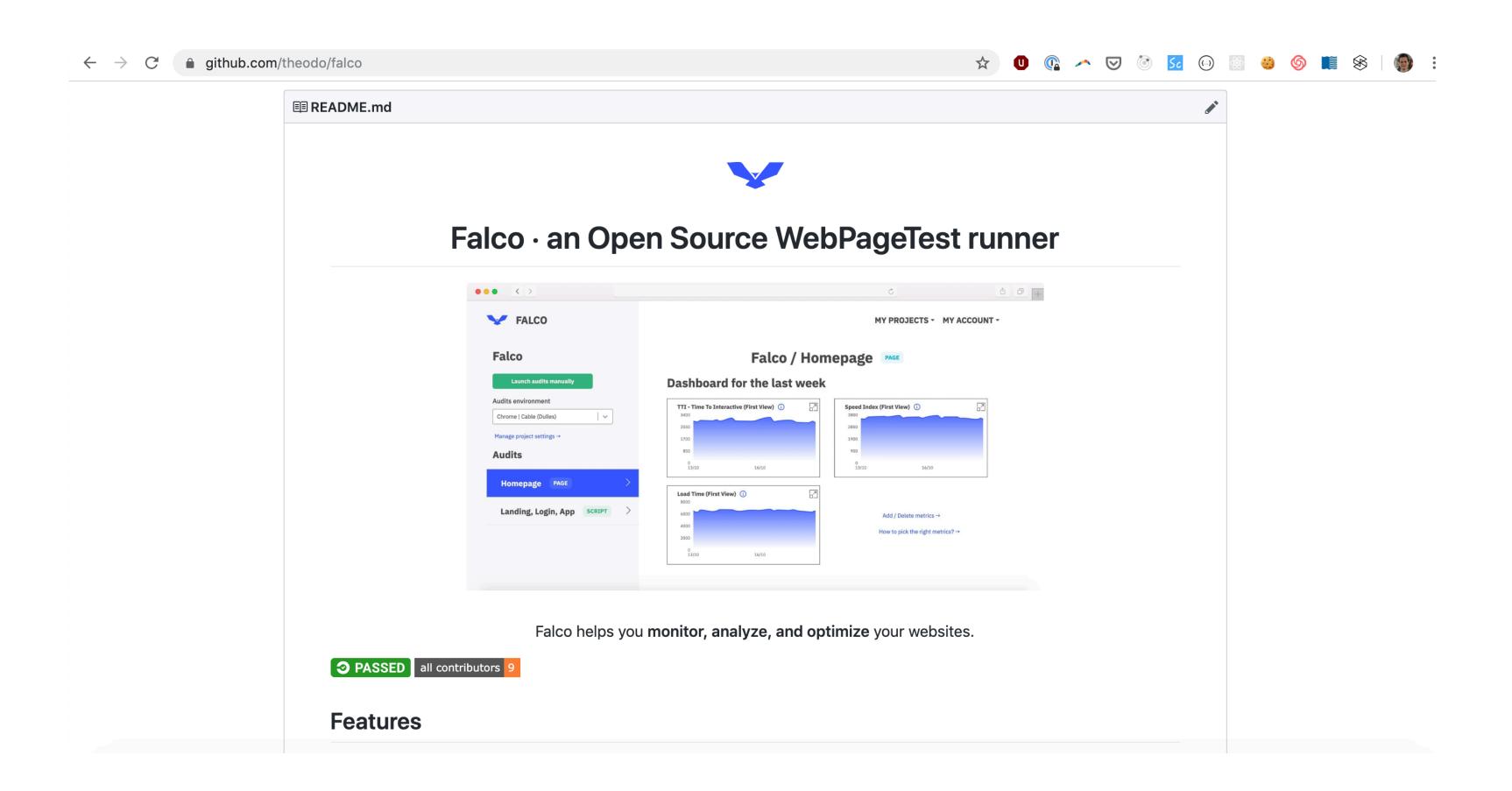
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https://github.com/theodo/falco
https://getfal.co

Thank you!

Slides will be available later today on my Twitter: ophacks

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