



<fe>
/IST

FRONTEND ISTANBUL

WE SUPPORT OTHER COMMUNITIES!





**WHAT WILL WE DO IN THE
NEXT MONTH?**

SPEAKERS



OĞUZHAN ASLAN

Nuxt.JS : Vue ile Server Rendering



CEM ARGUVANLI

React



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Modern Frontend Architecture

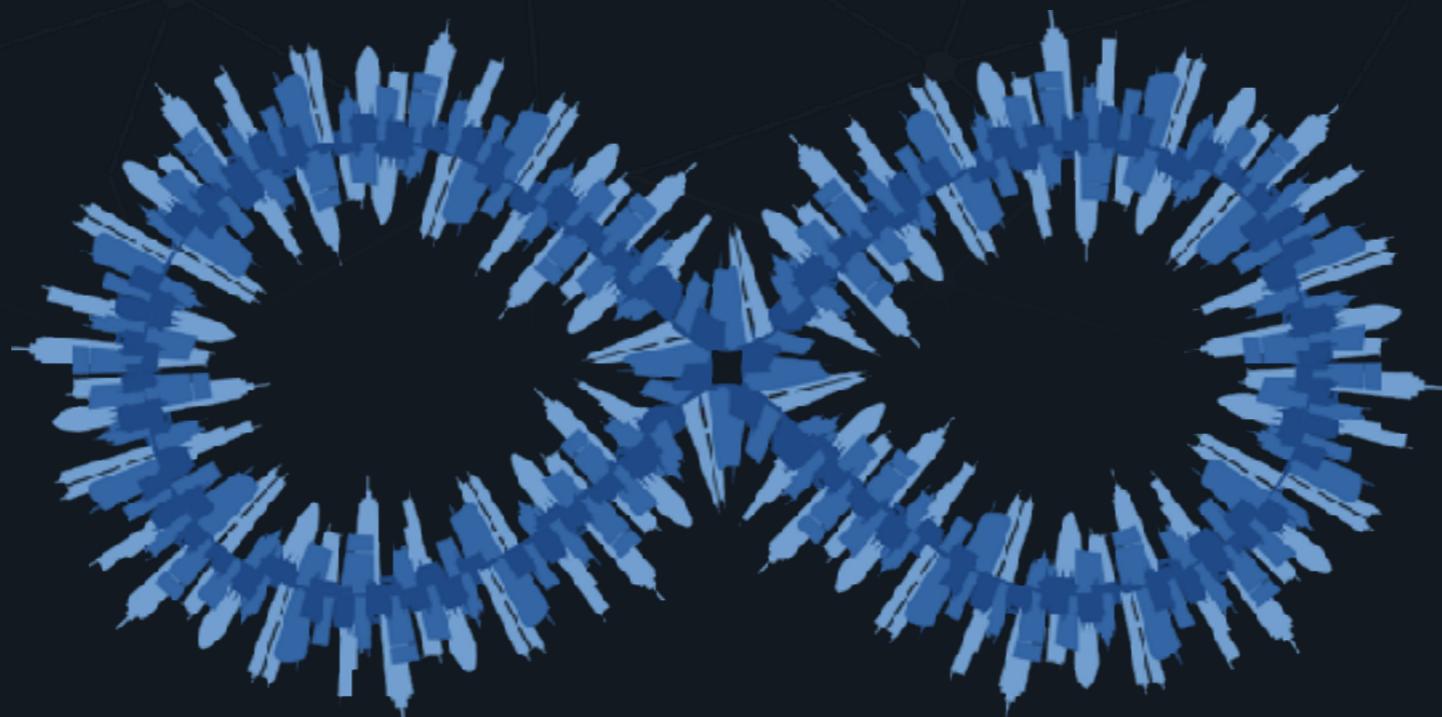
&
Progressive Web Applications





CHOOSING THE RIGHT TECHNOLOGY...

Variety-Related Complexity



Single Page App

{ PROS }

- It is fast.
- It offers a more seamless UX!
- No extra queries to the server to download pages.
- Flexible client-side caching

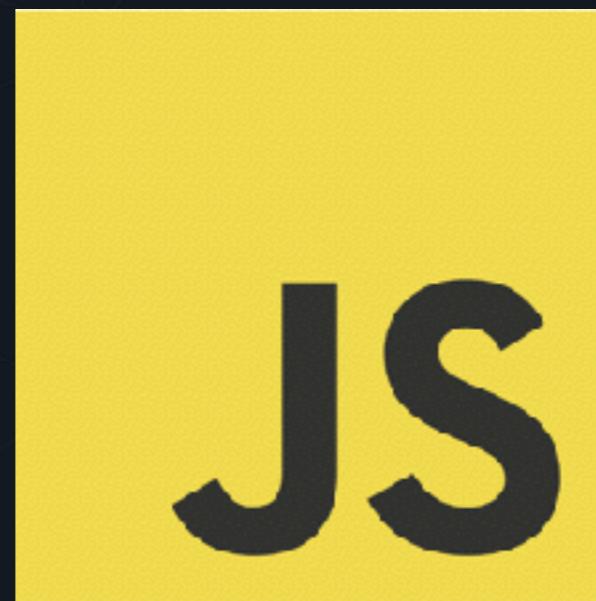
{ CONS }

- Memory Leak
- SEO Optimization
- Longer to Develop

WHAT ARE WE USING?

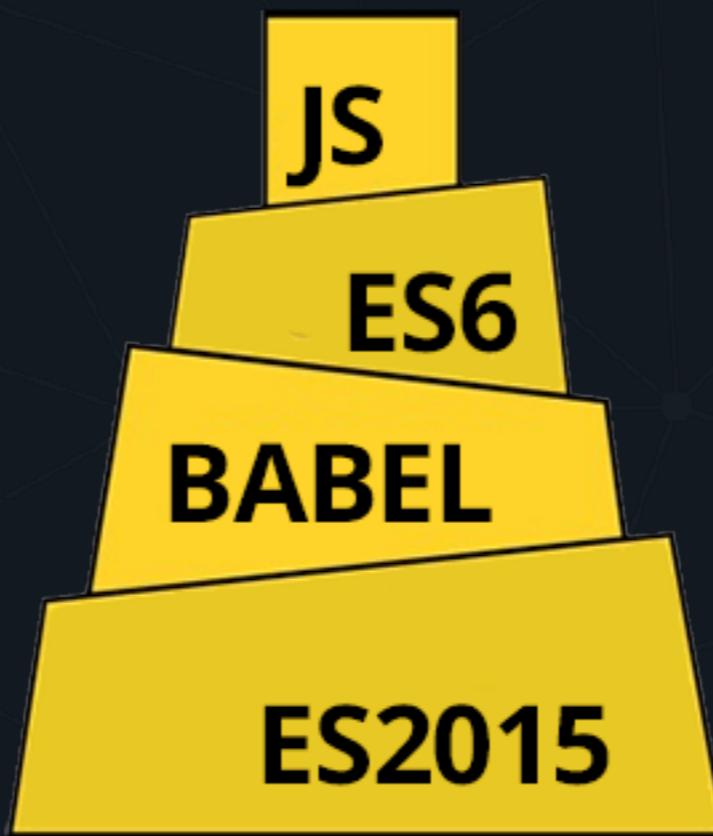
- **EcmaScript**
- **Babel**
- **Webpack**
- **React**
- **Redux**
- **GraphQL**
- **Apollo**
- **Styled-Components**
- **Jest**

JavaScript





Which JavaScript?

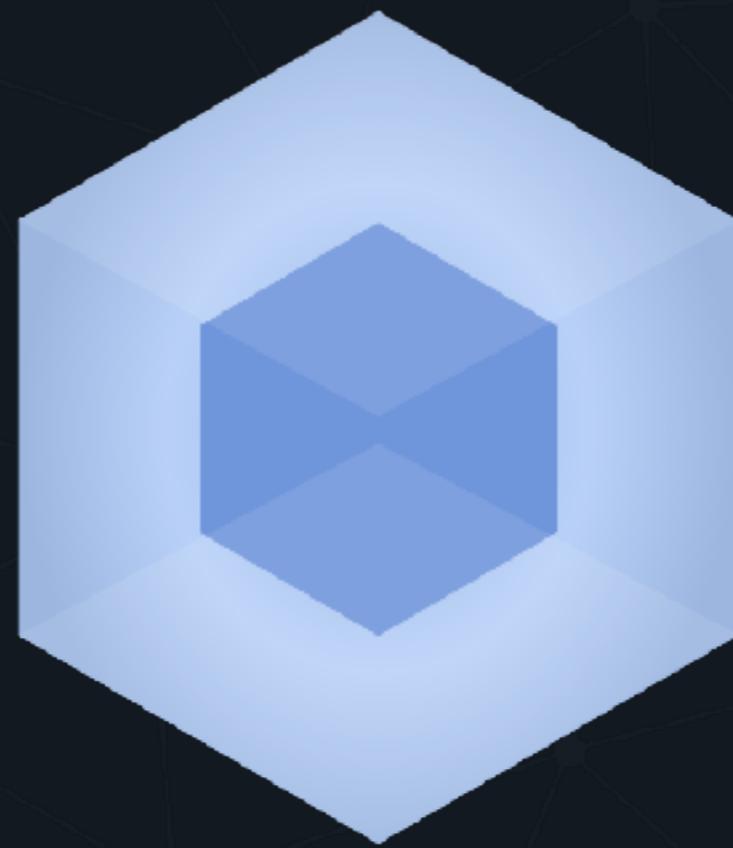


EcmaScript

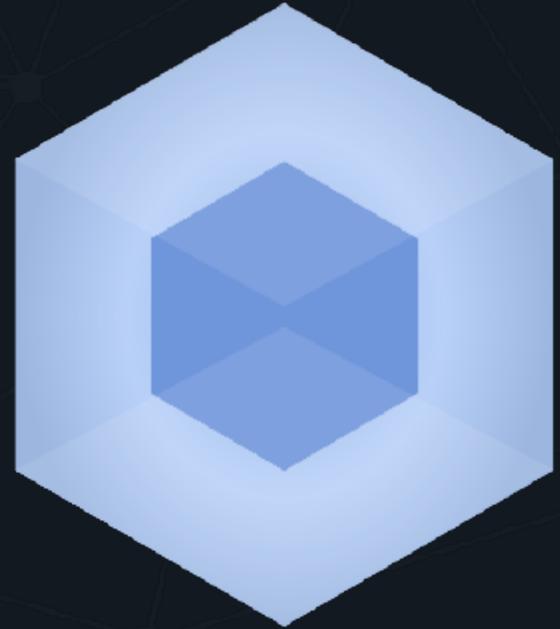
Proposals

BABEL

is a JavaScript Compiler

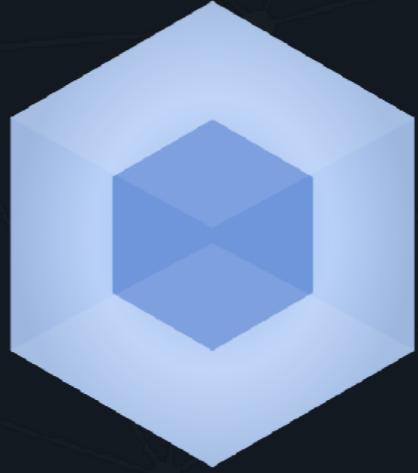


WEBPACK



WEBPACK

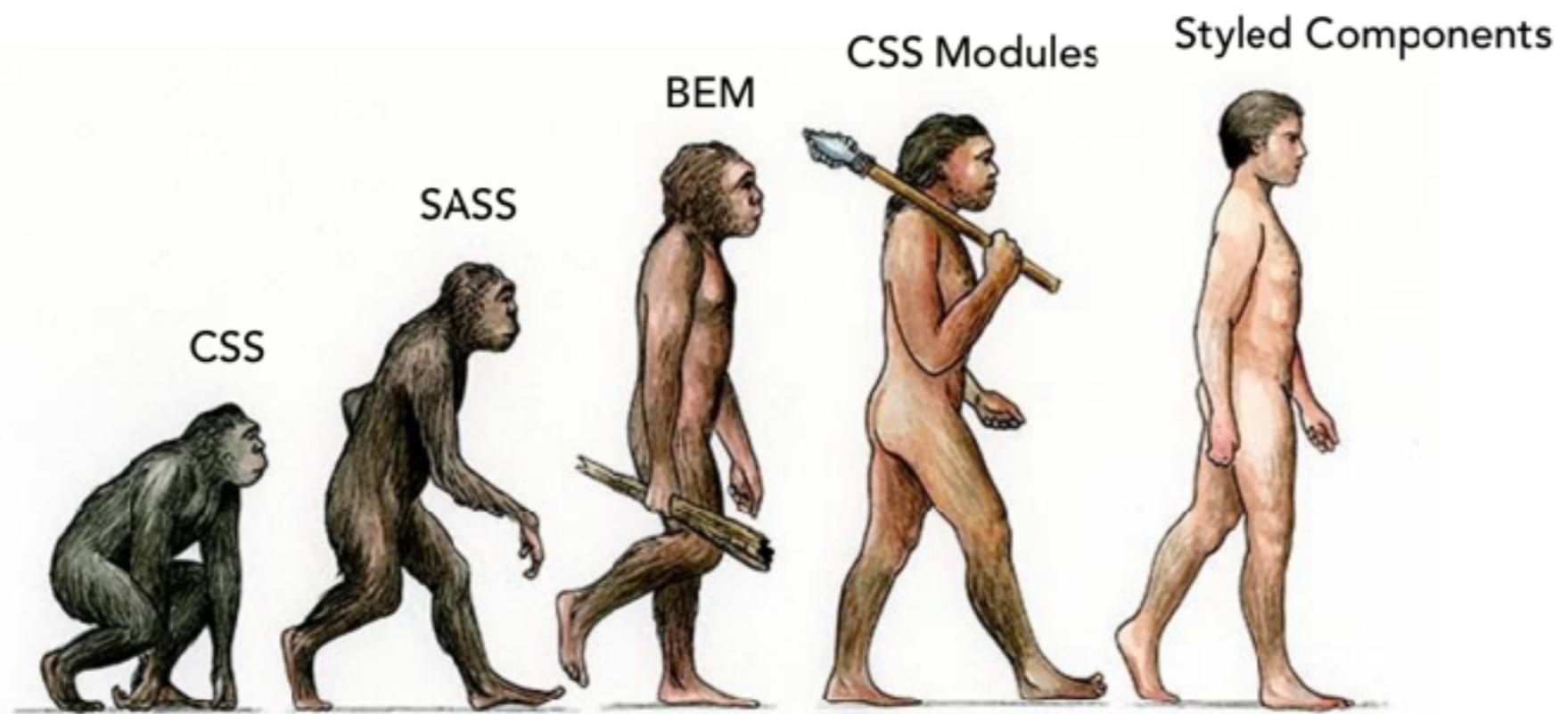




WEBPACK

- Dead asset elimination
- Easier code splitting
- You control how assets are processed
- Hot page reload

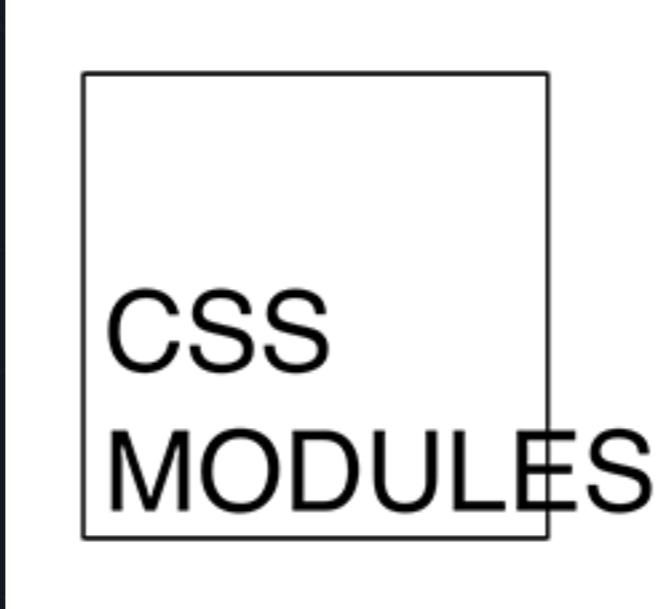
Evolution of Styling



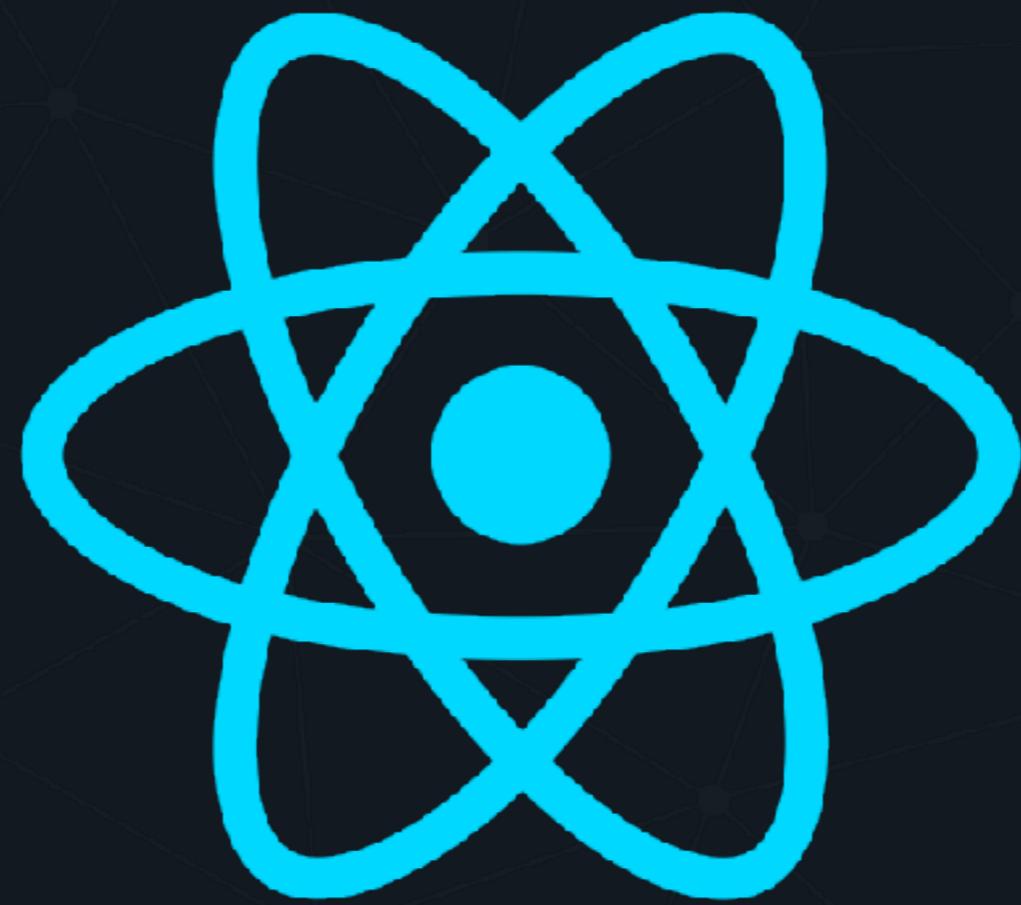
<https://goo.gl/gKiiKQ>



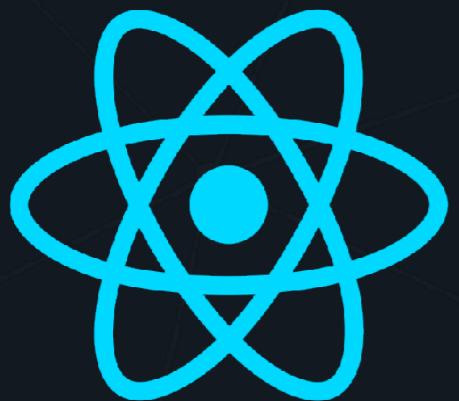
styled
components



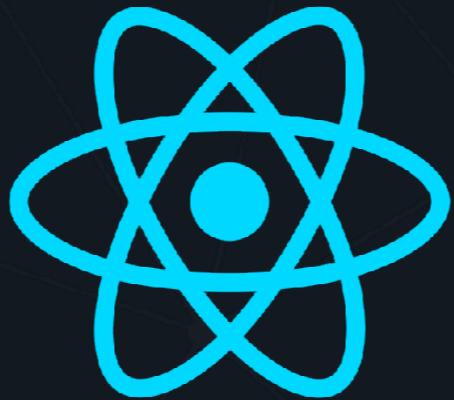
**CSS
MODULES**



REACT



**React is a declarative view library that makes
your code more predictable and easier to debug**



ADVANTAGES

- Declarative
- Virtual Dom
- Jsx
- One-Way Data Binding
- Server-Side Rendering
- Fast Learning Curve

CLIENT-SIDE RENDERING



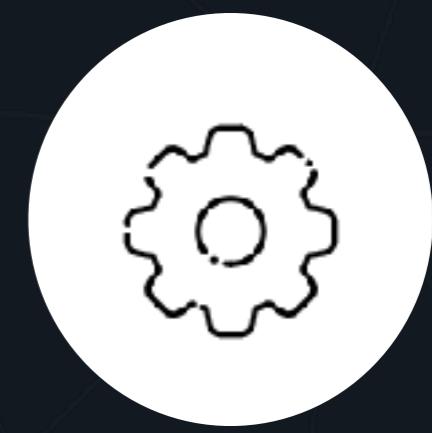
SERVER



BROWSER



JS DOWNLOAD



REACT RUN

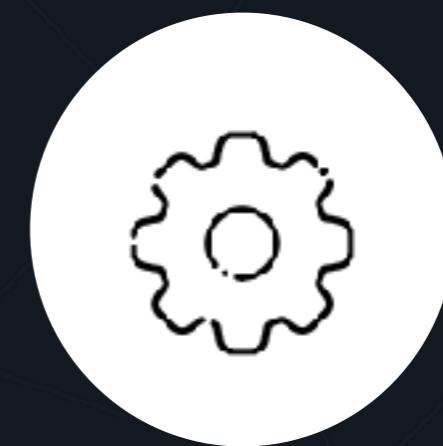
SERVER-SIDE RENDERING



SERVER



BROWSER



REACT RUN



REDUX



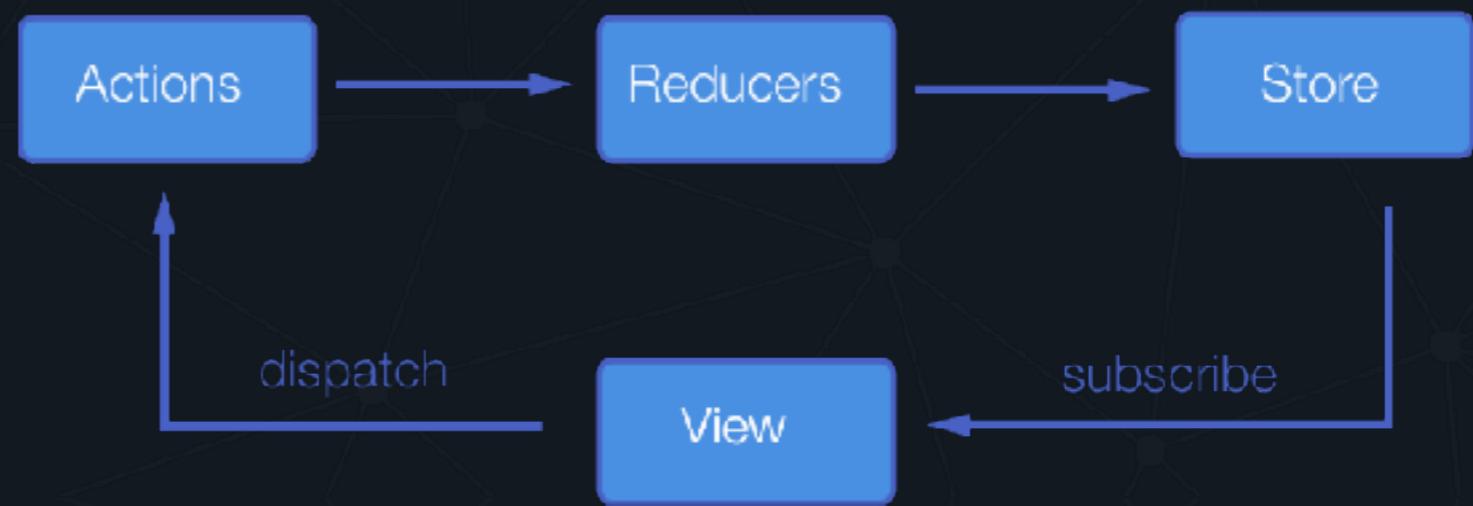
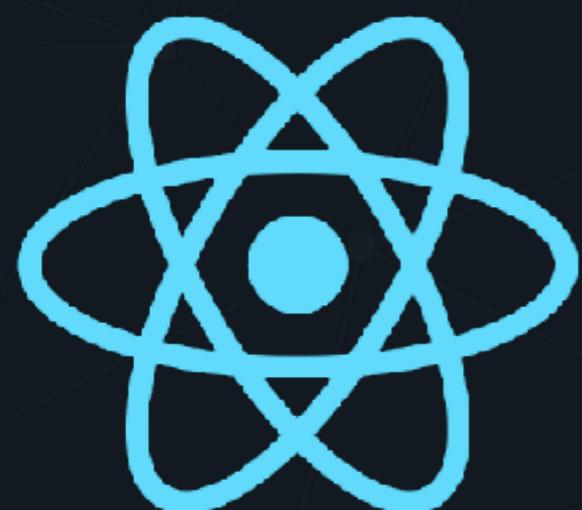
Predictable state container for JavaScript apps

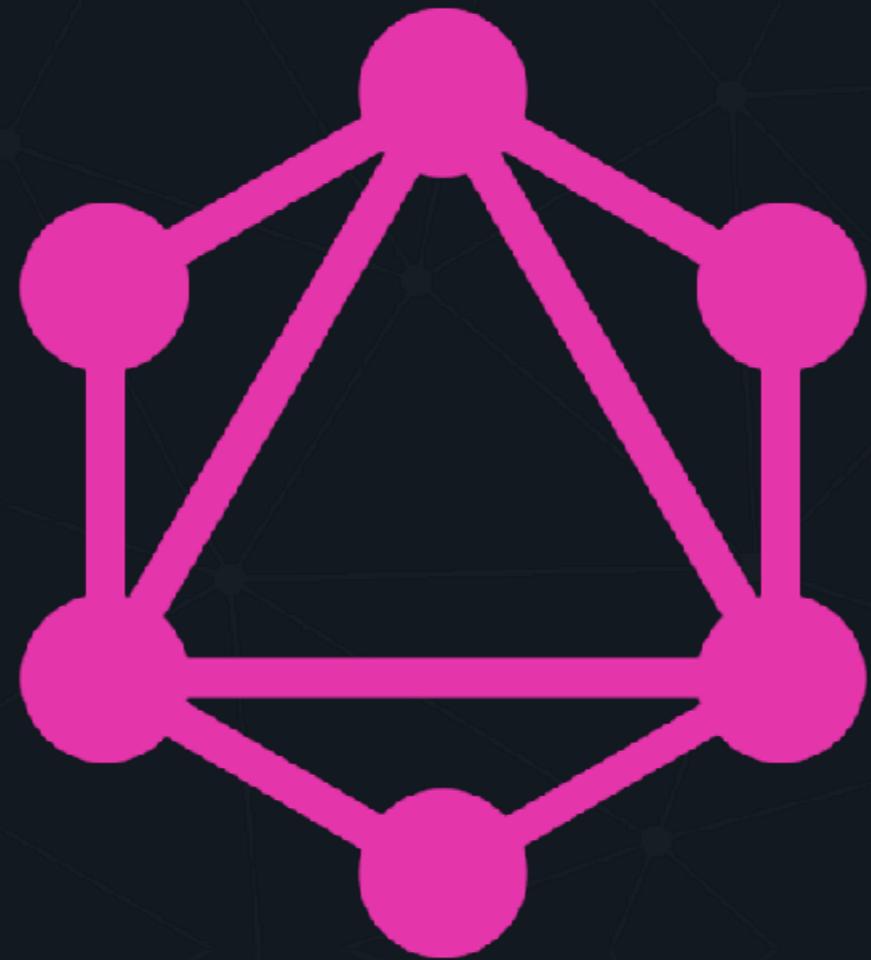


- **Predictable**
- **Testable**
- **Allows for time travel**
- **State stored in a single object tree**



Redux

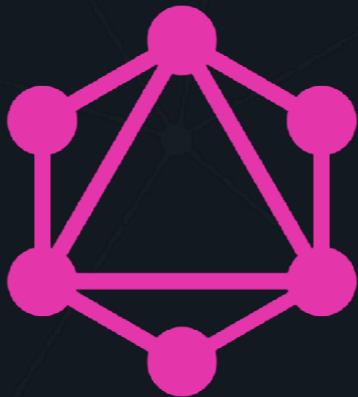




GRAPHQL



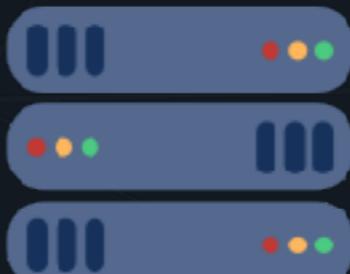
**GraphQL is a technology released by Facebook in 2015
that has the potential to replace REST**



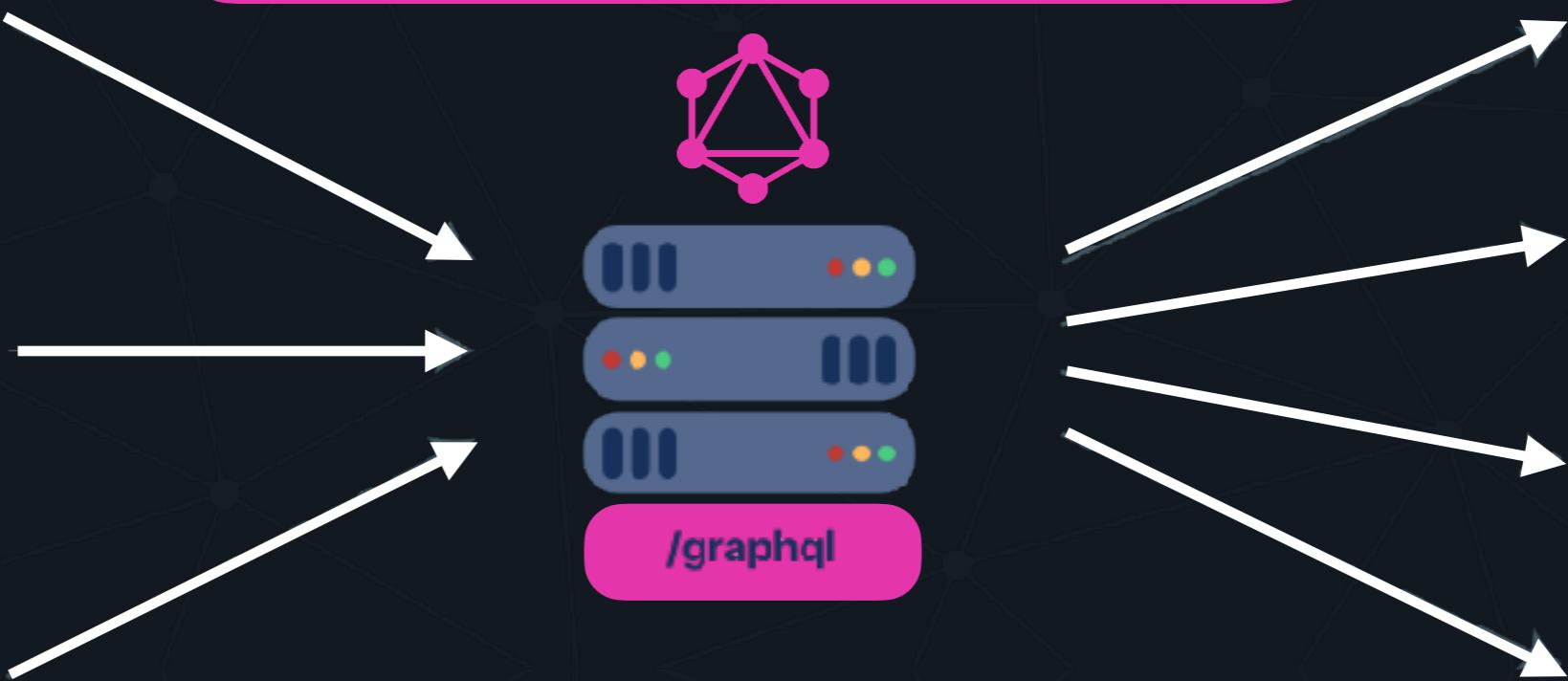
- **One endpoint to access your data**
- **Retrieve only the data your client needs in a single request (flexibility)**
- **No versioning**

GraphQL is a query language for APIs

There is only ever 1 endpoint: and REST is replaced by a powerful query language



/graphql



SQL



NoSQL



Graph DBs



REST







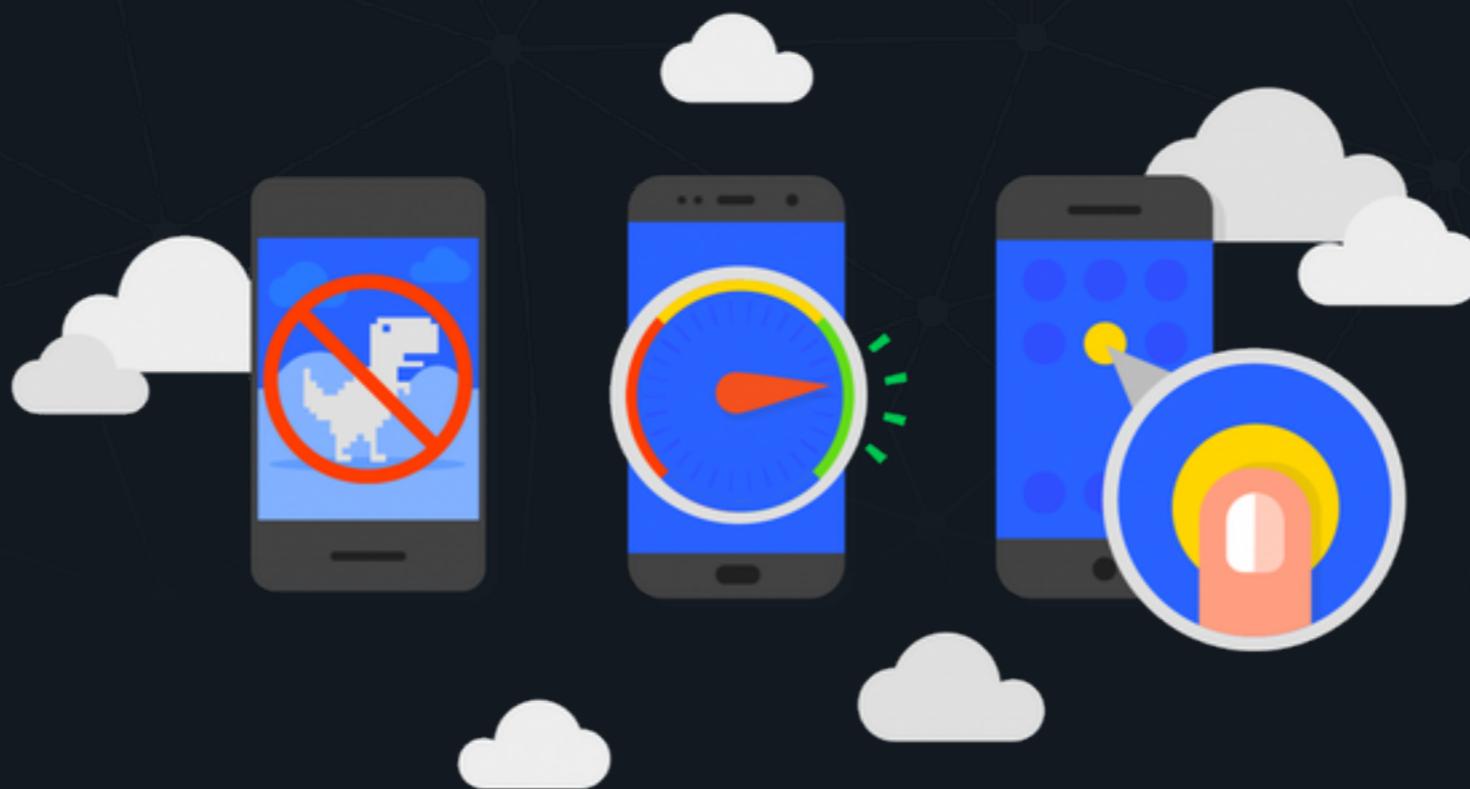
**The flexible, production ready GraphQL client for
React and native apps.**



FEATURES

- Fetching
- Caching
- Prefetching
- Subscription
- Pagination
- Optimistic UI
- Normalization

Progressive Web!



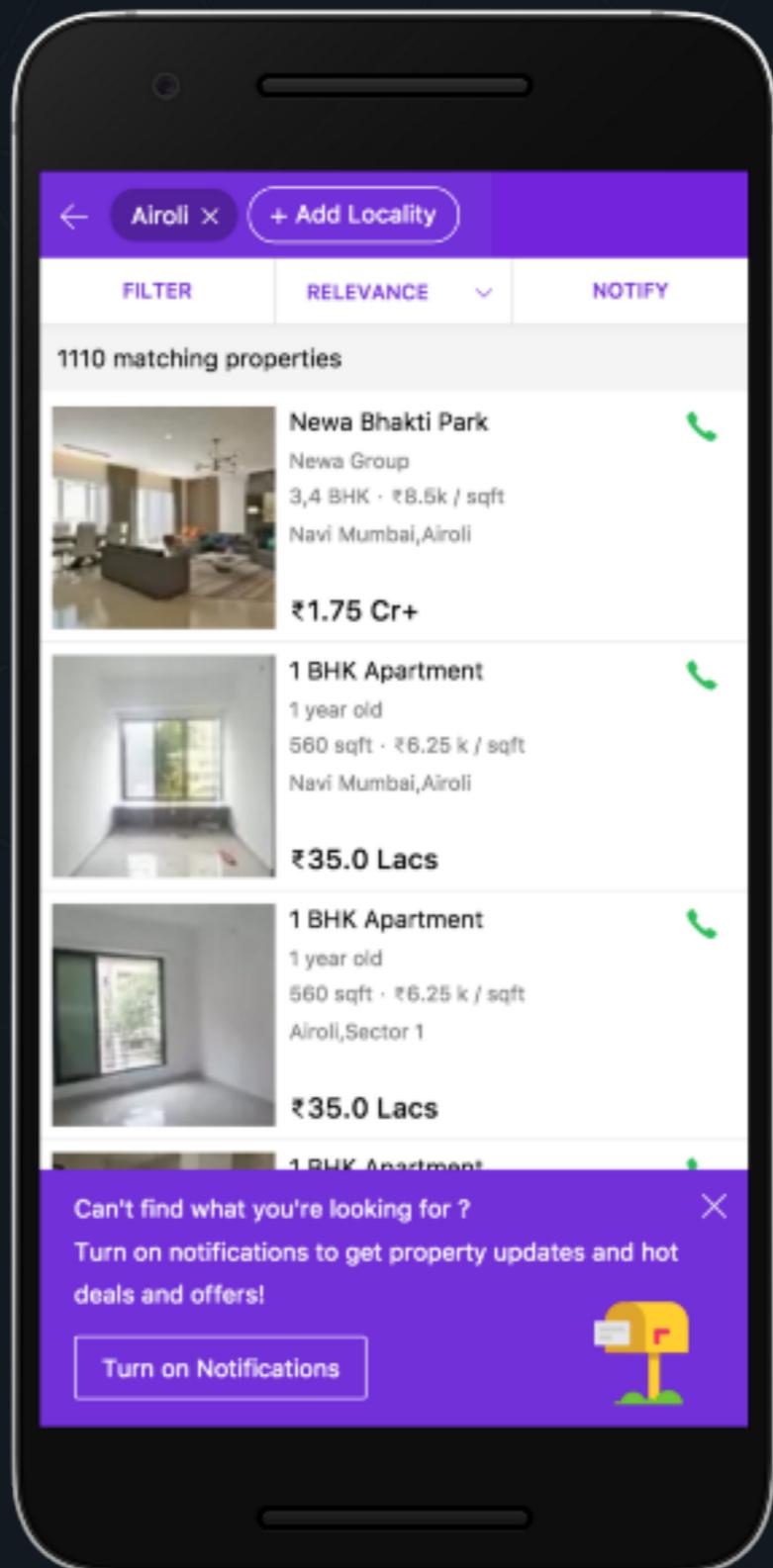
FAST



SECURE

STRIKING

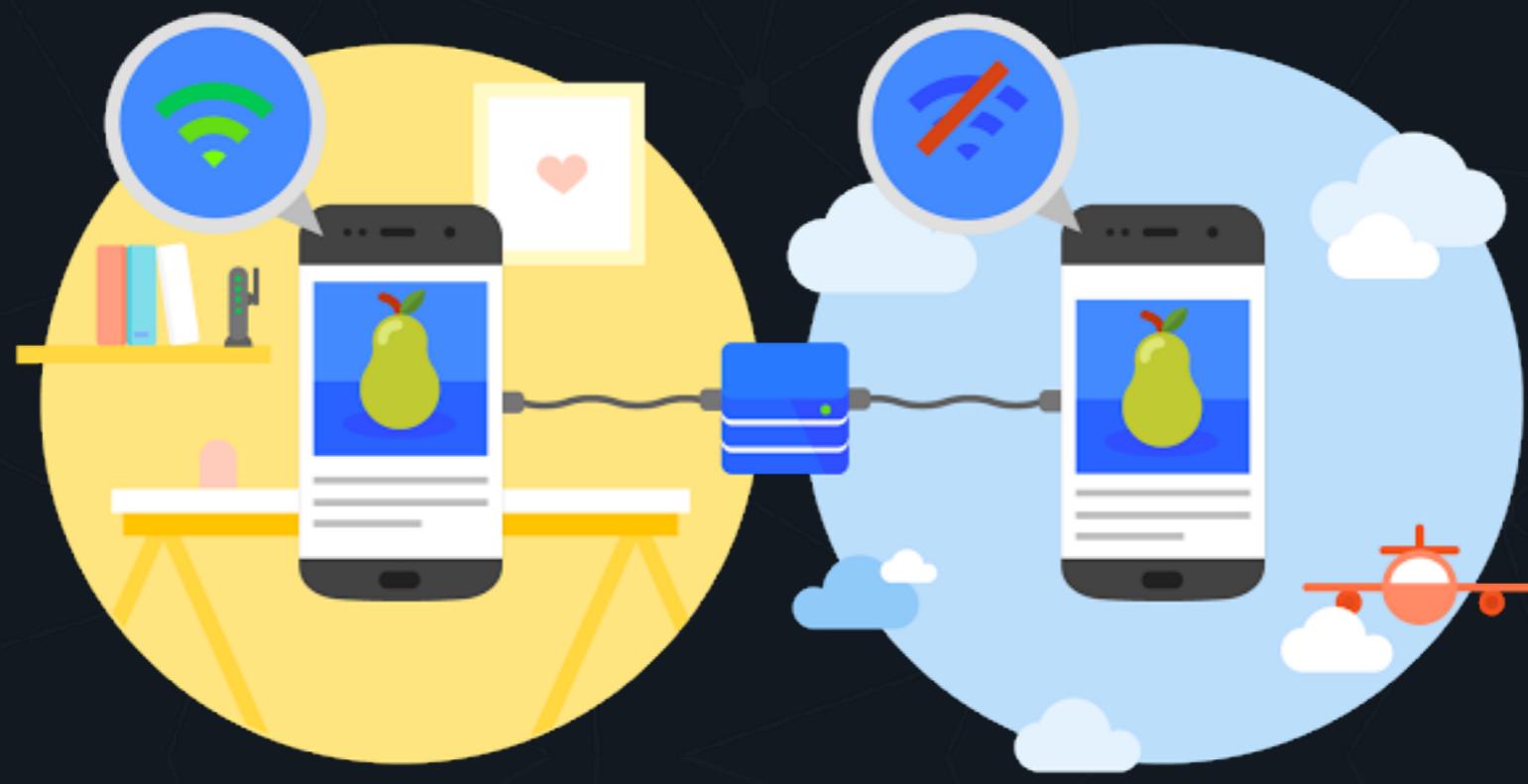
HOUSING.COM



SERVICE WORKERS

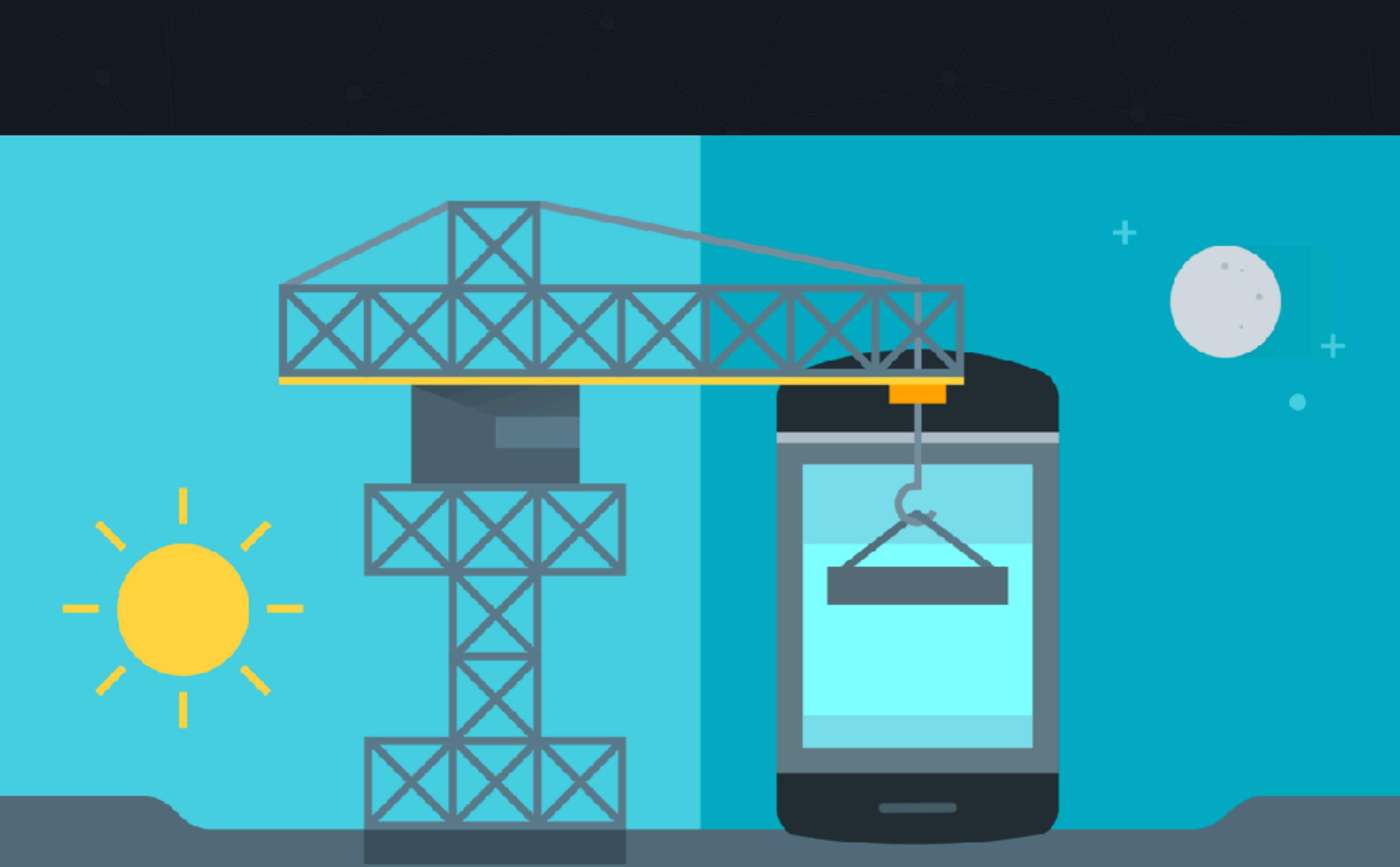


OFFLINE FIRST



APP SHELL

INSTANT LOADING WEB APPS



<https://goo.gl/Xo8TSm>

CRITICAL CSS

CODE SPLIT

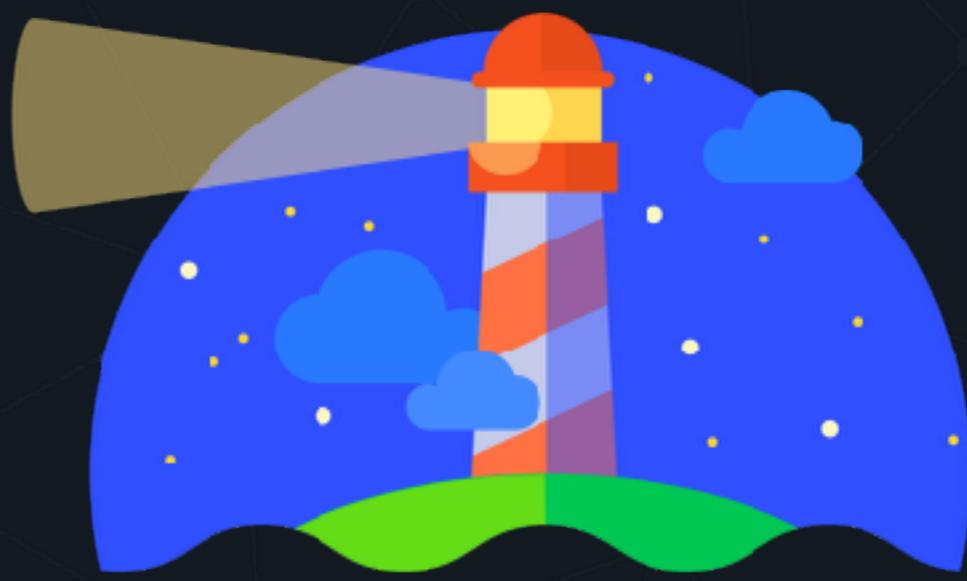
FIRST MEANINGFUL PAINT

CODE LINTER



ESLINT

PRETTIER



LIGHTHOUSE

WHY DO WE NEED LIBRARIES?



**UNDERSTANDING THE
TECHNOLOGY CORRECTLY**



**EXPRESSING THE TECHNOLOGY
CORRECTLY**



**HIGH QUALITY PRODUCTS
REQUIRE TIME AND EFFORT**

TDD

QUESTIONS!

THANK YOU...