GQL ALL THE THINGS

MANAGING LOCAL STATE WITH APOLLO



I HAVE CSS-IN-GQL STICKERS

https://github.com/braposo/graphql-css

I ALSO HAVE UNICORN AND BABEL STICKERS





MY NAME IS SARA



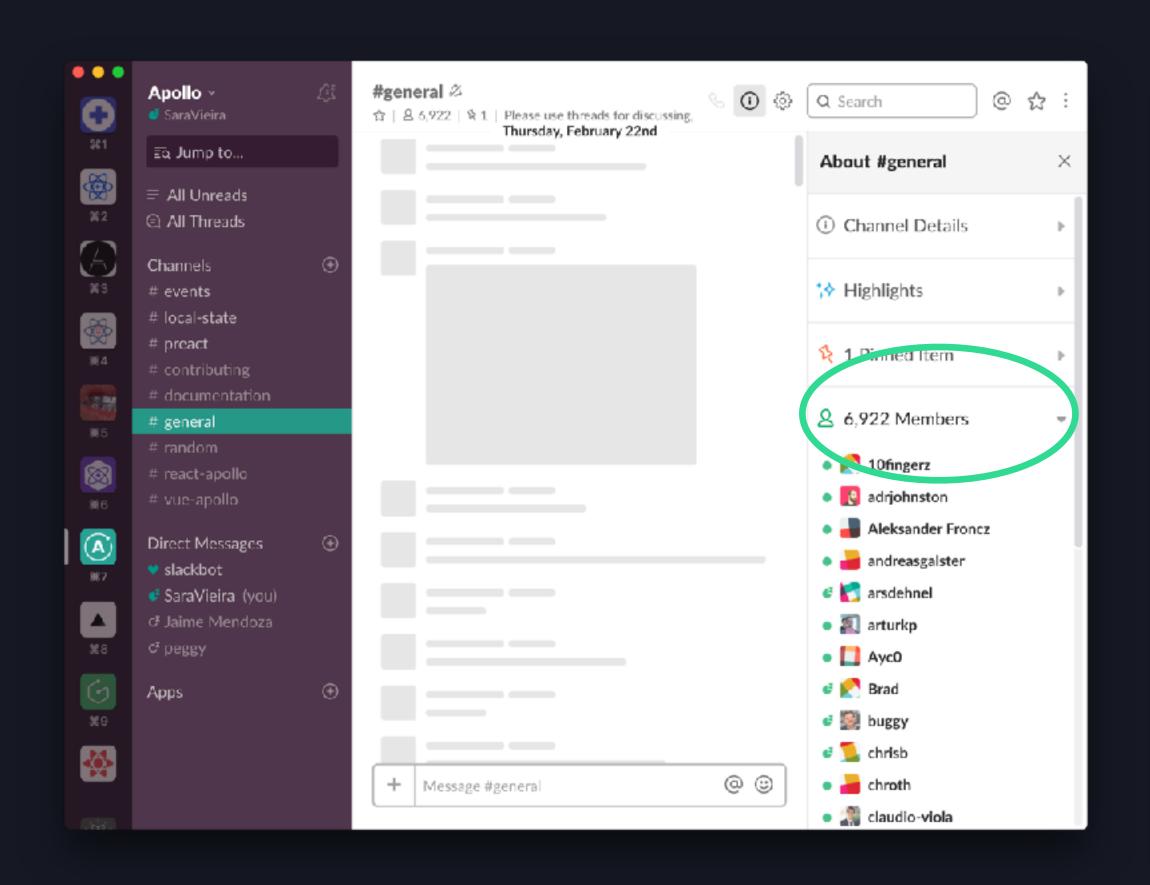
Front End developer at YLD

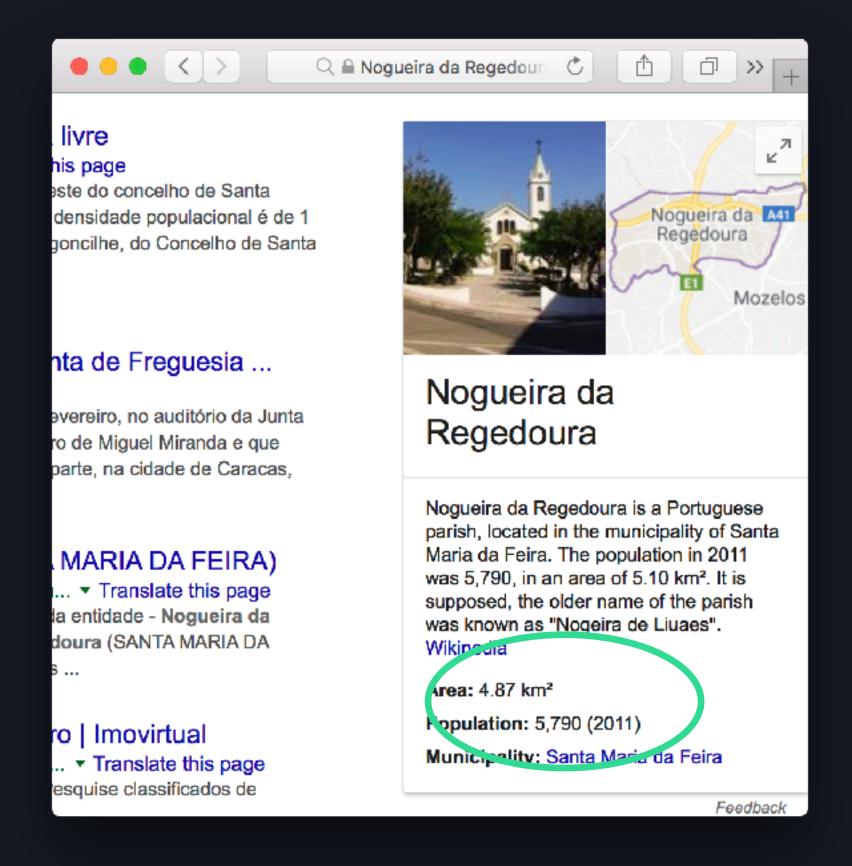
Really into shitty movies
please y'all need to watch troll 2

Really into football

Lives out of airbnb's

LIVES IN THE MIDDLE OF NOWHERE



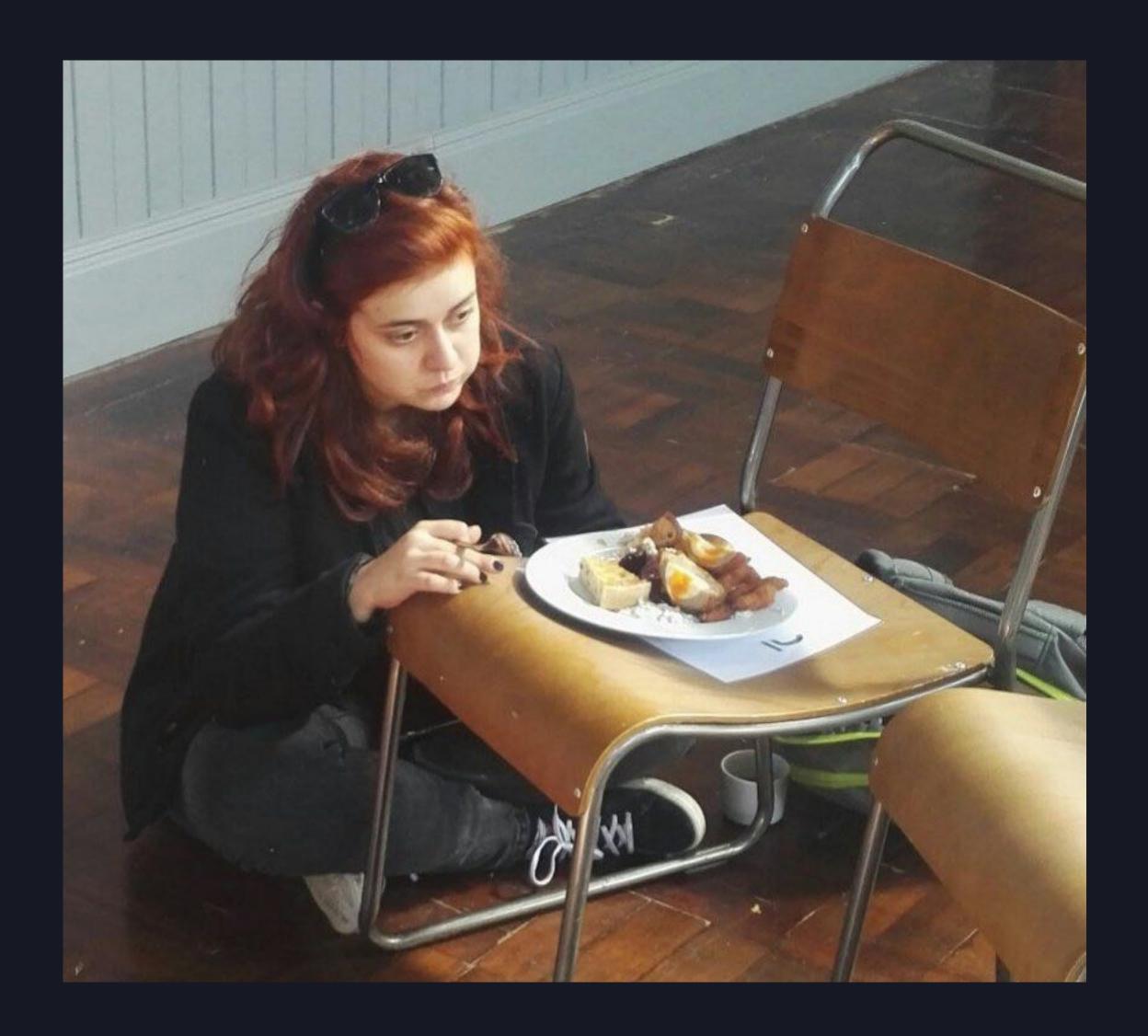


ALER

I DON'T LIKE REDUX

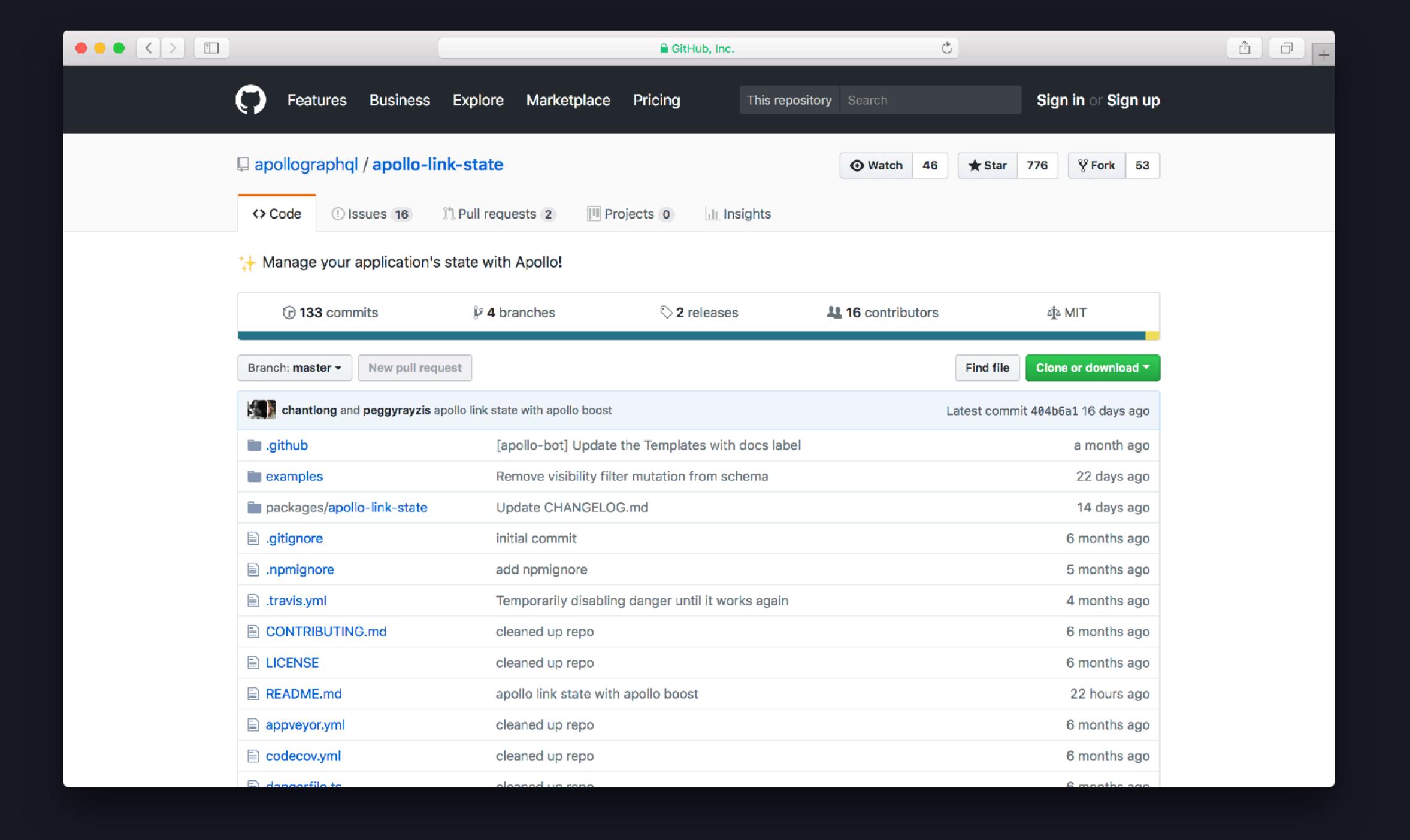
Dan is great tho ...

- We got this awesome React project that is all Apollo and GraphQL, want to help?
- That sounds awesome. What do you use for state management?
- Redux.



WHY

GQL ALL THE THINGS





HOW?

FIRST... APOLLO BOOST



REMEMBER THIS?

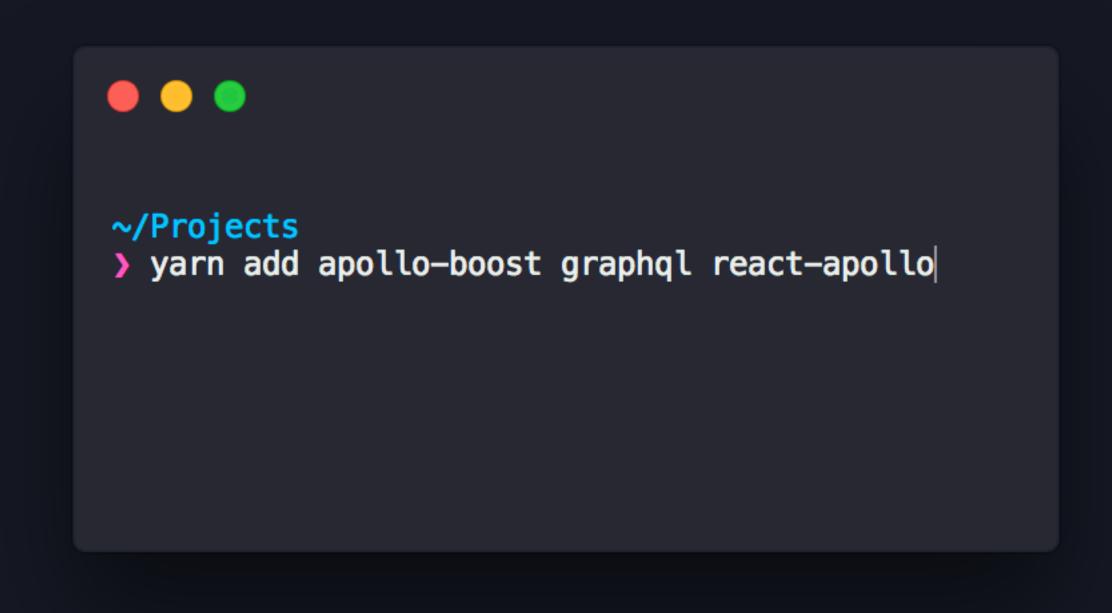


~/Projects

> yarn add yarn add apollo-client apollo-cacheinmemory apollo-link-http react-apollo graphqltag graphql

I CAN'T REMEMBER THIS

NOW.



```
import React from 'react';
import ApolloClient from 'apollo-boost';
import { ApolloProvider } from 'react-apollo';
import Main from './Main'
const client = new ApolloClient({
    // YOUR STUFF
});
const App = () \Rightarrow (
    <ApolloProvider client={client}>
        <Main />

ApolloProvider>
```

DONE.



NOW STATE

```
export const client = new ApolloClient({
    uri: 'https://figma-graphql.now.sh/graphql',
    clientState: {
        defaults, — What?
        resolvers
                       What?
const App = () \Rightarrow (
    <ApolloProvider client={client}>
        <Main />

ApolloProvider>
```

DEFAULTS

Your base state. What you start with

RESOLVERS

This is here all the magic happens to retrieve and update your local data in the Apollo cache

```
export const resolvers = {
    Mutation: {
        openModal: (\_, params, \{ cache \}) \Rightarrow \{
             const data = {
                 modal: {
                      modalIsOpen: true,
                      __typename: "modal"
             cache.writeData({ data });
             return null;
```

THE MUTATION

You know ... The GQL part of the equation

```
import { gql } from 'apollo-boost'
export default gql`
  mutation openModal {
    openModal @client
  }
`
```

THE QUERY

You know ... The GQL part of the equation

WE MADE THE BEHIND THE SCENES

How do you actually call these things?

THE QUERY COMPONENT

```
import React from "react";
import Modal from "react-modal";
import { Query } from "react-apollo";
import { GET_MODAL } from "./queries/";
                                                                  Wat?
export default () \Rightarrow (
    <div>
         <Query query={GET_MODAL}>
              \{(\{ loading, error, modal: \{ modalIsOpen \} \}) \Rightarrow \{ loading, error, modal: \{ modalIsOpen \} \} \}
                  if (loading) {
                       return "loading man ... Chill ... ";
                  if (error) return `Error!: ${error}`;
                  return (
                       <Modal isOpen={modalIsOpen}>
                            < h1>0f course they do ... </ h1>
                       </Modal>
  </div>
```

CAN WE MAKE THIS SMALLER?

HELL YEAH LET'S CREATE OUR VERY OWN QUERY COMPONENT

```
import React from "react";
import { Query } from "react-apollo";
export default ({ children, ... props }) \Rightarrow (
    <Query { ... props}>
         \{(\{ loading, error, data \}) \Rightarrow \{
             if (loading) { return 'loading' };
             if (error) return `Error!: ${error}`;
             return children(data);
    </Query>
```

OUR CODE NOW:

```
import React from "react";
import Modal from "react-modal";
import { Query } from "./components/";
import { GET_MODAL } from "./queries/";
export default () \Rightarrow (
    <div>
         <Query query={GET_MODAL}>
             \{(\{ modal: \{ modalIsOpen \} \}) \Rightarrow (\{ unit \} \}) \}
                  <Modal isOpen={modalIsOpen}>
                      <h1>0f course they do ... </h1>
                  </Modal>
  </div>
```

FITS IN ONE SLIDE



BUT NO MODAL:

THE MUTATION COMPONENT

```
import React from "react";
import { Mutation } from "react-apollo";
import { OPEN_MODAL } from "../queries/";
export default () \Rightarrow (
    <Mutation mutation={OPEN_MODAL}>_
                                                  Wat?
        \{openModal \Rightarrow (
             <button onClick={openModal}>
                 Wait ... Everyone loves modals right?
            </button>
      Mutation>
```

STILL THINK IT'S TOO MUCH CODE?

APOLLO CONSUMER

Used for very simple mutations to the cache

```
import React from "react";
import { ApolloConsumer } from "react-apollo";
export default () \Rightarrow (
    <ApolloConsumer>
         \{cache \Rightarrow (
             <button onClick={() \Rightarrow cache.writeData({
                  data: { modal: { isOpen: true } }
             })}
                  Wait ... Everyone loves modals right?
             </button>
    </ApolloConsumer>
```

WHERE IS THE MUTATION?

It's done on the fly! No need to define it before 🎉

CAN YOU MAKE THE QUERY AND MUTATION IN ONE SLIDE ME

KEN... HOLD MY BEER

```
const MODAL = gql`
    modalOpen @client
export default () \Rightarrow (
    <Query query={MODAL}>
         \{(\{ data, client \}) \Rightarrow (
             <Fragment>
                  <button
                       onClick=\{() \Rightarrow
                           client.writeData({
                                data: { modalOpen: true }
                           });
                       A MODAL
                  </button>
                  <Modal isOpen={data.modalOpen}>YEAH SON</Modal>
             </ Fragment>
    </Query>
```

THE MODAL DOES NOT CLOSE

FINE.

```
const changeState = (client, value) \Rightarrow
    client.writeData({
         data: { modalOpen: value }
    });
export default () \Rightarrow (
  <Query query={MODAL}>
       \{(\{ data, client \}) \Rightarrow (
           <Fragment>
                <button onClick={() \Rightarrow changeState(client, true)}>A MODAL/button>
                <Modal
                     isOpen={data.modalOpen}
                     onRequestClose=\{() \Rightarrow changeState(client, false)\}>
                       YEAH SON
                  </Modal>
              </ Fragment>
    </Query>
```

DEMO:

CODESANDBOX.10/S/4X2PLK2V3W

DEMO WITH VARIABLES AND REMOTE DATA:

CODESANDBOX.10/S/05Z509VRP9



