



GQL ALL THE THINGS

MANAGING LOCAL STATE WITH APOLLO



MY NAME IS SARA



Developer Advocate at YLD

Really into shitty movies
please y'all need to watch troll²

Really into football

LIVES IN THE MIDDLE OF NOWHERE

The image consists of two side-by-side screenshots. The left screenshot shows the Slack interface for the '#general' channel. The channel has 6,922 members, indicated by a green circle. The right screenshot shows a Wikipedia page for Nogueira da Regedoura, a Portuguese parish. The page notes that the parish has a population of 5,790 in an area of 4.87 km², and is located in the municipality of Santa Maria da Feira.

#general

6,922 Members

Nogueira da Regedoura

Area: 4.87 km²
Population: 5,790 (2011)
Municipality: Santa Maria da Feira

ALERT

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.



W H Y ?

GQL ALL THE THINGS

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Code Issues 16 Pull requests 2 Projects 0 Insights

Manage your application's state with Apollo!

133 commits 4 branches 2 releases 16 contributors MIT

Branch: master New pull request Find file Clone or download

chantlong and peggyrayzis apollo link state with apollo boost Latest commit 404b6a1 16 days ago

.github	[apollo-bot] Update the Templates with docs label	a month ago
examples	Remove visibility filter mutation from schema	22 days ago
packages/apollo-link-state	Update CHANGELOG.md	14 days ago
.gitignore	initial commit	6 months ago
.npmignore	add npmignore	5 months ago
.travis.yml	Temporarily disabling danger until it works again	4 months ago
CONTRIBUTING.md	cleaned up repo	6 months ago
LICENSE	cleaned up repo	6 months ago
README.md	apollo link state with apollo boost	22 hours ago
appveyor.yml	cleaned up repo	6 months ago
codecov.yml	cleaned up repo	6 months ago
dangerfile.ts	cleaned up repo	6 months ago



HOW?

FIRST... APOLLO BOOST

REMEMBER THIS?



~/Projects

```
> yarn add yarn add apollo-client apollo-cache-  
inmemory apollo-link-http react-apollo graphql-  
tag graphql
```

I CAN'T REMEMBER THIS

NOW:



~/Projects

› yarn add apollo-boost graphql react-apollo

```
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 = () => (
    <ApolloProvider client={client}>
        <Main />
    </ApolloProvider>
)
```

DONE!

GOD BLESS
PEGGY RAYZIS



NOW STATE

```
export const client = new ApolloClient({  
  uri: 'https://figma-graphql.now.sh/graphql',  
  clientState: {  
    defaults, ← What ?  
    resolvers ← What ?  
  }  
})
```

```
const App = () => (  
  <ApolloProvider client={client}>  
    <Main />  
  </ApolloProvider>  
)
```

DEFAULTS

Your base state. What you start with

```
export const defaults = {
  modal: {
    modalIsOpen: false,
    __typename: 'modal'
  }
}
```

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 }) => {
      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

```
import { gql } from "apollo-boost";

export default gql`  
  modal @client {  
    modalIsOpen  
  }  
`;
```

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/";

export default () => (
  <div>
    <Query query={GET_MODAL}>
      {({ loading, error, modal: { modalIsOpen } }) => {
        if (loading) {
          return "loading man ... Chill ...";
        }
        if (error) return `Error!: ${error}`;
        return (
          <Modal isOpen={modalIsOpen}>
            <h1>Of course they do ... </h1>
          </Modal>
        );
      }}
    </Query>
  </div>
);
```

Wat?

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 }) => (
  <Query {... props}>
    {({ loading, error, data }) => {
      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 () => (
  <div>
    <Query query={GET_MODAL}>
      {({ modal: { modalIsOpen } }) => (
        <Modal isOpen={modalIsOpen}>
          <h1>Of course they do ... </h1>
        </Modal>
      )}
    </Query>
  </div>
);
```

FITS IN ONE SLIDE

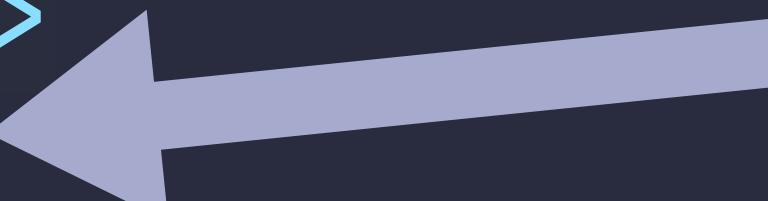


BUT NO MODAL :(

THE MUTATION COMPONENT

```
import React from "react";
import { Mutation } from "react-apollo";
import { OPEN_MODAL } from "../../queries/";

export default () => (
  <Mutation mutation={OPEN_MODAL}>
    {openModal => (
      <button onClick={openModal}>
        Wait ... Everyone loves modals right ?
      </button>
    )}
  </Mutation>
);
```



Wat?

**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 () => (
  <ApolloConsumer>
    {cache => (
      <button onClick={() => 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

HOLD MY BEER

```
const MODAL = gql`  
  {  
    modalOpen @client  
  }  
`;  
  
export default () => (  
  <Query query={MODAL}>  
    {({ data, client }) => (  
      <Fragment>  
        <button  
          onClick={() =>  
            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) =>
  client.writeData({
    data: { modalOpen: value }
  });

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

FUTURE

TYPE CHECKING

HELPER COMPONENTS

DEMOS

DEMO:

[CODESANDBOX.IO/S/4X2PLK2V3W](https://codesandbox.io/s/4x2plk2v3w)

DEMO WITH VARIABLES AND REMOTE
DATA:

[CODESANDBOX.IO/S/05Z509VRP9](https://codesandbox.io/s/05z509vrp9)

VUE?

[HTTPS://APOLLO-VUE-LOVE.NOW.SH/](https://apollo-vue-love.now.sh/)





THANK YOU



<https://link-state-is-dope.now.sh/>