

GQL ALL THE THINGS

MANAGING LOCAL STATE WITH APOLLO



I HAVE CSS-IN-GQL STICKERS

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



MY NAME IS SARA



Front End developer at YLD

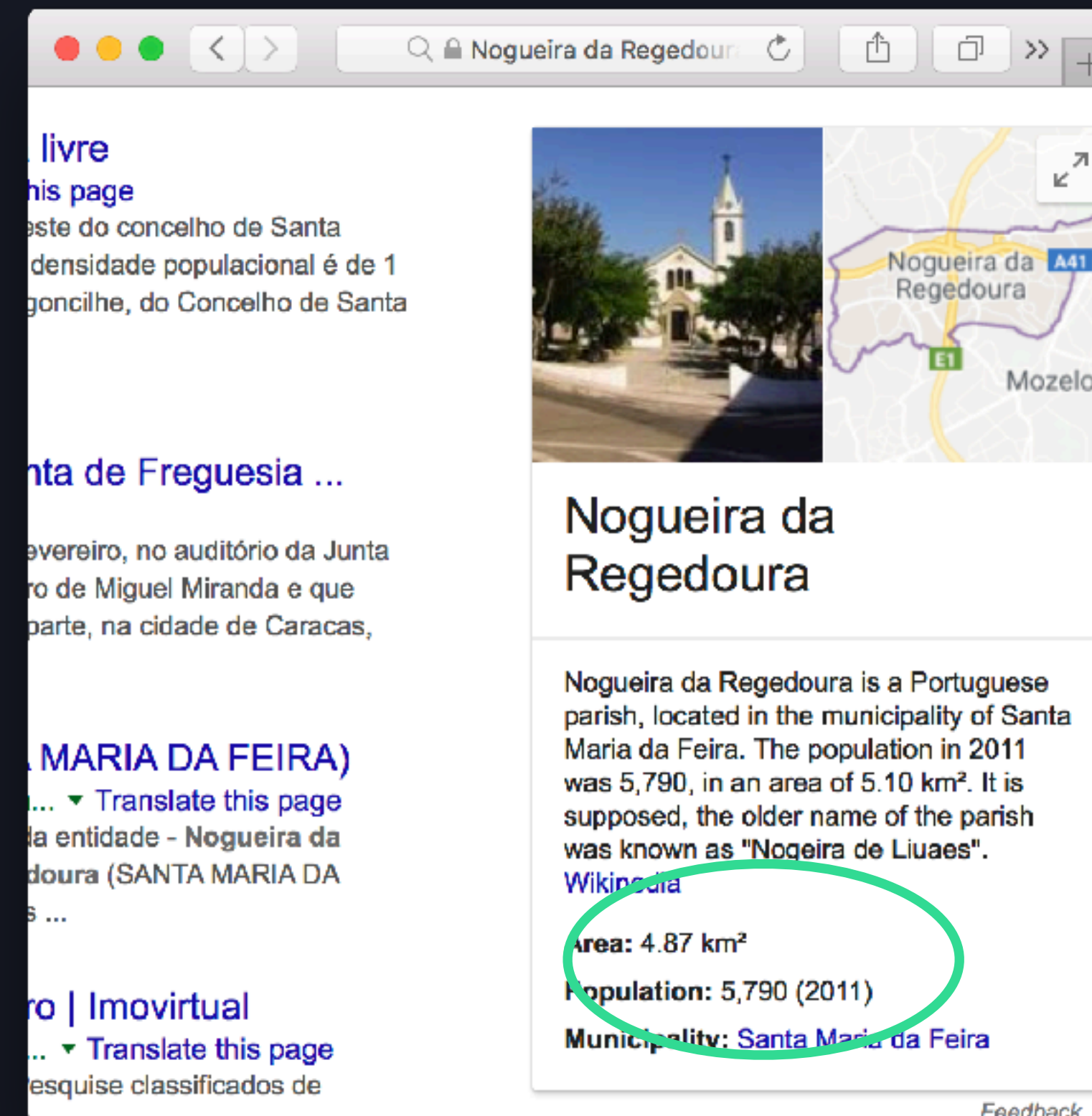
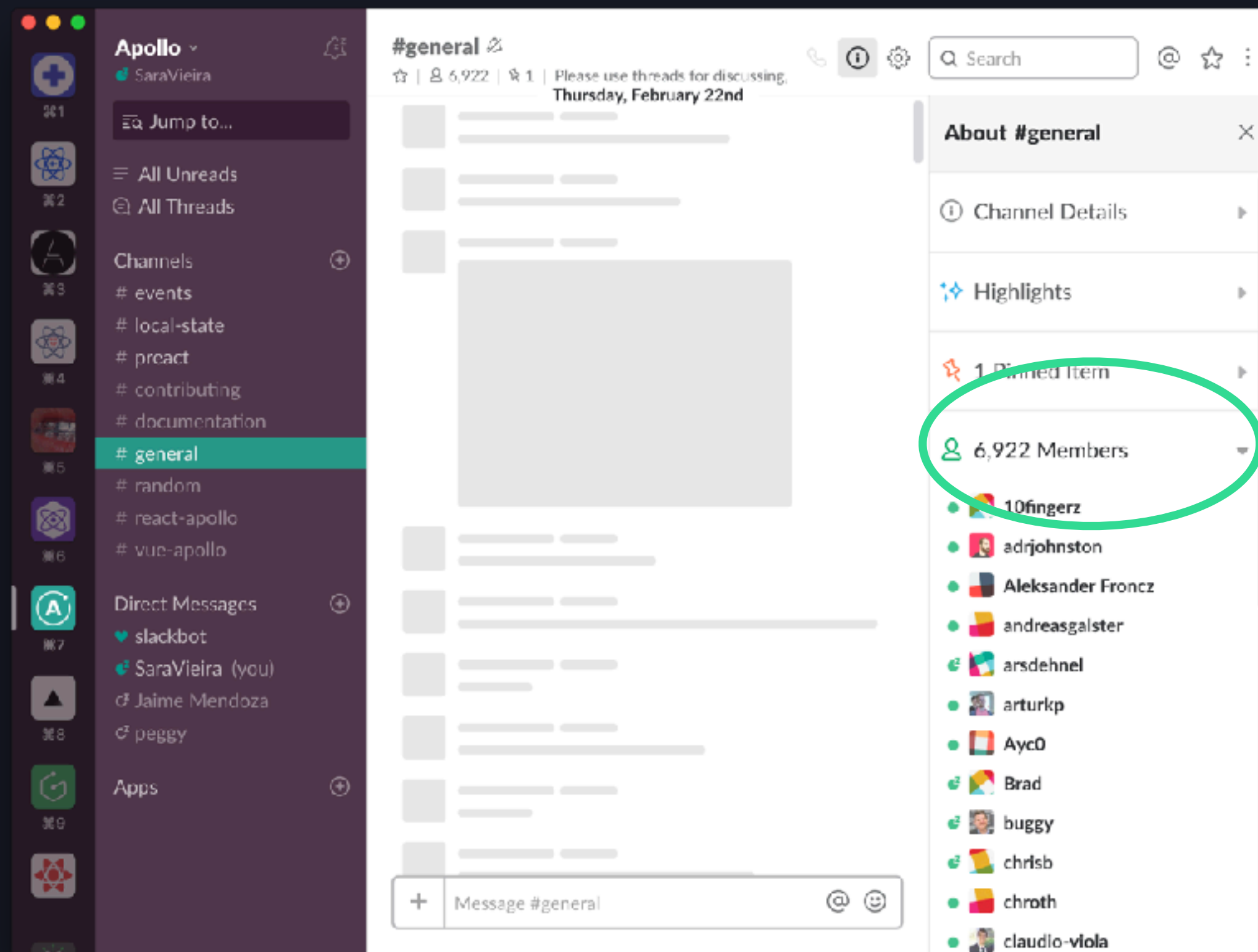
Really into shitty movies

please y'all need to watch troll 2

Really into football

Lives out of airbnb's

LIVES IN THE MIDDLE OF NOWHERE



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.



WHY?

GQL ALL THE THINGS

GitHub, Inc.

Sign in or Sign up

apollographql / apollo-link-state

Watch46

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Code

Issues16

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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?


```
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,  
    shownFile: null,  
    __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 GraphQL part of the equation


```
import gql from 'apollo-boost'

export default gql`
  mutation openModal {
    openModal @client
  }
`
```

THE QUERY

You know ... The GraphQL part of the equation

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

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


WE MADE THE BEHIND THE SCENES

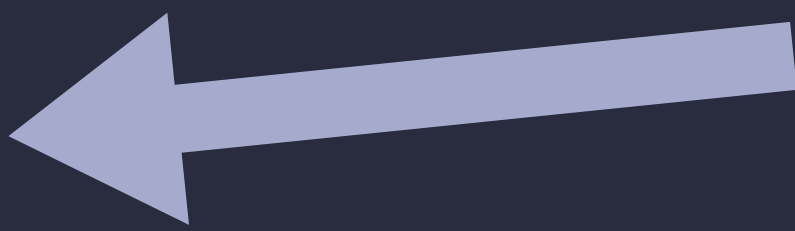
How do you actually call these things ?

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

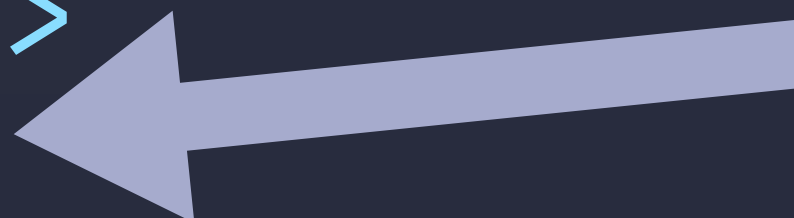


BUT NO MODAL :(

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

KEN... HOLD MY BEER

```

const MODAL = gql`
  {
    modalOpen @client
  }
`;

export default () => (
  <Query query={MODAL}>
    ({ data, client }) => (
      <Fragment>
        <button
          onClick={() =>
            client.writeQuery({
              query: MODAL,
              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.writeQuery({
    query: MODAL,
    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>
);
```

DEMO:

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



A black cat is sitting on the left side of the frame, looking towards the right. Next to it is a white unicorn plush toy with a gold horn and a rainbow-colored mane. The background is a dark, textured surface with a repeating circular pattern.

THANK YOU 🇳🇱

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