## GRAPHQL

**DANA HART** 

**NORTHWESTERN MUTUAL** 

@DMHART13

@REACTJSWI

#### THANK YOU FACEBOOK

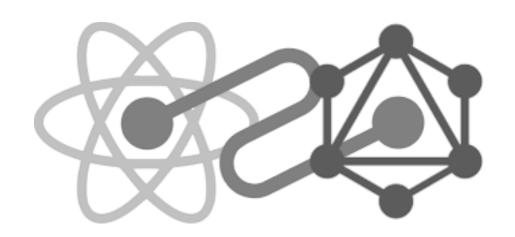
- Leading tech company
- Trailblazing
- Tested via billions of users
- F8 announced the future





#### MEET THE REACT FAMILY

- React
- React Native
- Redux
- Relay
- GraphQL





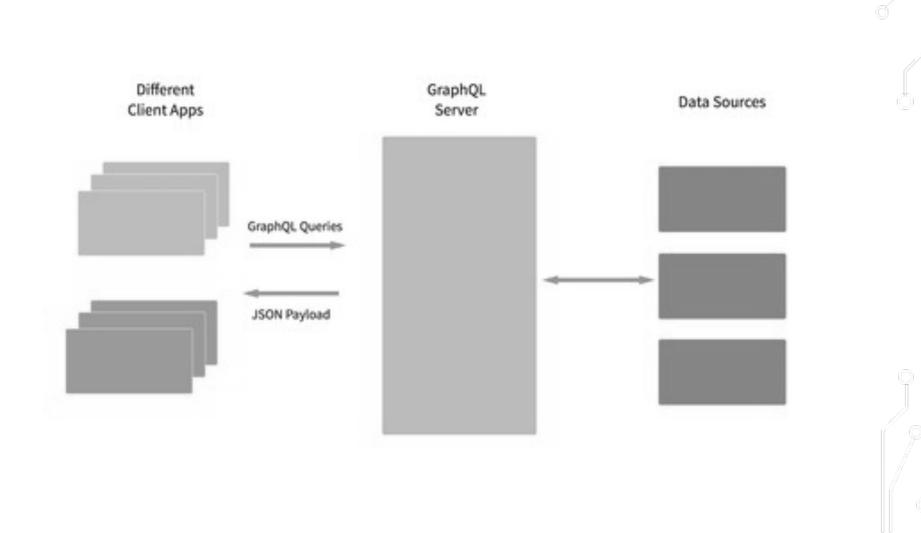


#### WHAT IS GRAPHQL

- Query language for graph data
- Interface between client and server for data fetching and manipulations
- Query string sent to a server to be interpreted and fulfilled, returns JSON
- Sits in the application layer

#### DESIGN PRINCIPLES

Hierarchical
Strongly typed
Structured
Client-specific
Backwards compatible



#### SAMPLE JSON

```
"id": "1",
"name": "Dan"
"id": "2",
"name": "Marie"
"id": "3",
"name": "Jessie"
```





### **QUERY & RESULT**

```
{
  user(id: "1") {
    name
    name
}
  "user": {
    "name": "Dan"
}
}
```

#### STRONGLY TYPED

```
var userType = new graphql.GraphQLObjectType({
   name: 'User',
   fields: {
     id: { type: graphql.GraphQLString },
      name: { type: graphql.GraphQLString },
   }
});
```



#### **SCHEMA**

```
var schema = new graphql.GraphQLSchema({
 query: new graphql.GraphQLObjectType({
    name: 'Query',
    fields: {
      user:
        type: userType,
        args: {
          id: { type: graphql.GraphQLString }
        resolve: function (_, args) {
          return data[args.id];
```

# DEMO

