

demystifying the GraphQL server-side

What is it?

GraphQL

a Type/Schema System

a Query Language

What is it good for?

- Can be used as an alternative to REST apis
 - Strong schema built in
 - Client controls shape of data no overfetching
 - Strong opinions no RESTfulness arguments

What else?

- Can be used as a generic query language:
 - GatsbyJS wrangles assets to generate a static site
 - o Prisma.io used as a data access layer
 - o DGraph.io used to query a graph database

There's a dizzying array of tools...



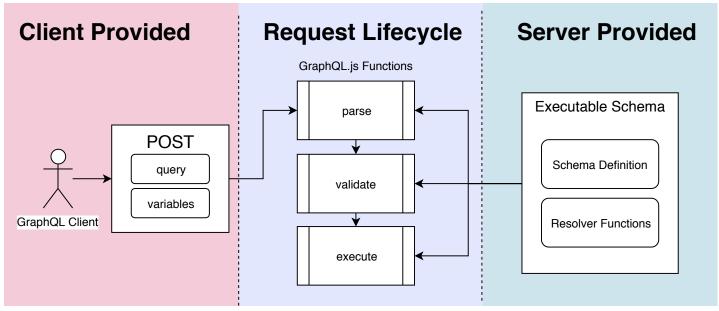
Two main options for node servers:

- **express-graphql** open source contributed by facebook
- **apollo-server** community open source by the makers of apollo client

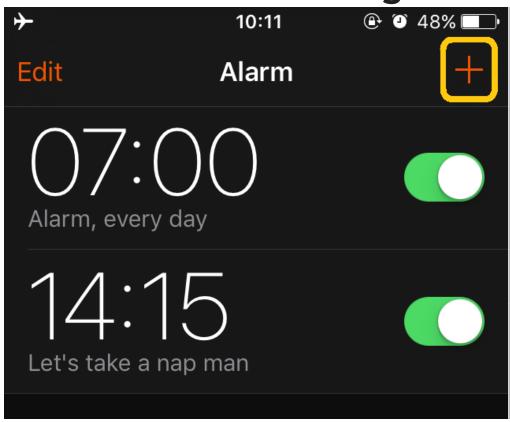
Let's see how they work...



Building a mental model



Let's build a thing.



You'll need these...

- **graphql.js** the language and the type system with functions to make it work (parse, validate, execute, subscribe)
- **graphql-tools** swiss army knife for building schemas, mocking them, combining them, etc.

and for Subscriptions you'll need...

- **subscriptions-transport-ws** a transport server for GraphQL subscriptions
- **iterall** a polyfill for async iterators (until you're on Node 10+)

In the real world you'll probably want...

- **apollo-server** http framework with implementations in your flavor of choice (express, koa, restify, etc.)
- **graphql-subscriptions** pubsub and helpers for async iterators

Questions?



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