Getting Started With GraphQL.js

Prerequisites

Before getting started, you should have Node v6 installed, although the examples should mostly work in previous versions of Node as well. For this guide, we won't use any language features that require transpilation, but we will use some ES6 features like Promises, classes, and fat arrow functions, so if you aren't familiar with them you might want to read up on them first.

To create a new project and install GraphQL.js in your current directory:

```
npm init
npm install graphql --save
```

Writing Code

To handle GraphQL queries, we need a schema that defines the `Query` type, and we need an API root with a function called a “resolver” for each API endpoint. For an API that just returns “Hello world!”, we can put this code in a file named `server.js`:

```
var { graphql, buildSchema } = require('graphql');

// Construct a schema, using GraphQL schema language
var schema = buildSchema(`
  type Query {
    hello: String
  }
`);

// The root provides a resolver function for each API endpoint
var root = {
  hello: () => {
    return 'Hello world!';
  },
};

// Run the GraphQL query '{ hello }' and print out the response
graphql(schema, '{ hello }', root).then((response) => {
  console.log(response);
});
```

If you run this with:

```
node server.js
```

You should see the GraphQL response printed out:

```
{ data: { hello: 'Hello world!' } }
```

Congratulations - you just executed a GraphQL query!

For practical applications, you'll probably want to run GraphQL queries from an API server, rather than executing GraphQL with a command line tool. To use GraphQL for an API server over HTTP, check out Running an Express GraphQL Server.

GRAPHQL.JS TUTORIAL

Getting Started
Running Express + GraphQL
GraphQL Clients
Basic Types
Passing Arguments
Object Types
Mutations and Input Types
Authentication & Middleware

ADVANCED GUIDES

Constructing Types

API REFERENCE

express-graphql
graphqlHTTP

graphql
graphql

graphql/error
formatError
GraphQLError
locatedError
syntaxError

graphql/execution
execute

graphql/language
BREAK
getLocation
Kind
lex
parse
parseValue
printSource
visit

graphql/type
getNamedType
getNullableType
GraphQLBoolean
GraphQLEnumType
GraphQLFloat
GraphQLID
GraphQLInputObjectType
GraphQLInt
GraphQLInterfaceType
GraphQLList
GraphQLNonNull
GraphQLObjectType
GraphQLScalarType

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Running an Express GraphQL Server

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