

Learn

Code

Community

FAO

Spec

Foundation

News

Search docs...

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 gueries, 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');
```

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

graphqIHTTP

graphql

graphql

graphql/error

formatError GraphQLError locatedError

https://graphql.org/graphql-js/

```
// Construct a schema, using GraphQL schema language
var schema = buildSchema(
 type Query {
   hello: String
`);
// The rootValue provides a resolver function for each API endpoint
var rootValue = {
 hello: () => {
    return 'Hello world!';
 },
};
// Run the GraphQL query '{ hello }' and print out the response
graphql({
 schema,
 source: '{ hello }',
  rootValue
}).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.

Continue Reading →

Running an Express GraphQL Server

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 GraphQLSchema GraphQLString GraphQLUnionType isAbstractType isCompositeType isInputType isLeafType isOutputType

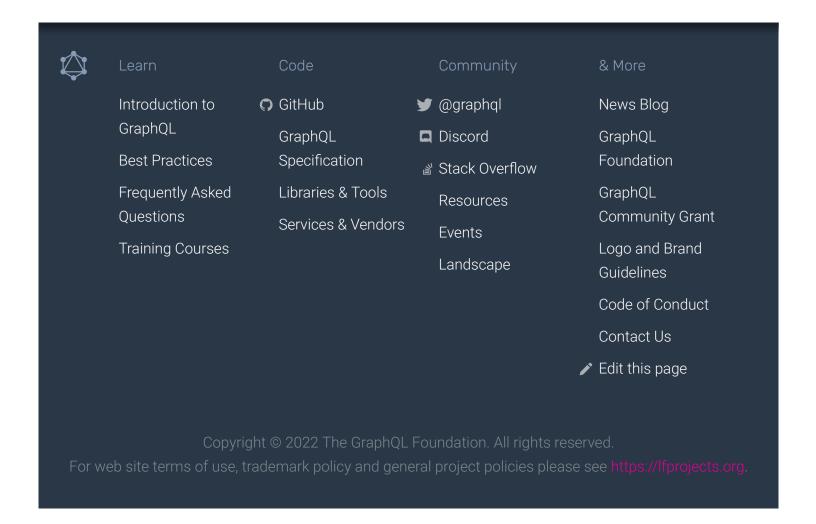
graphql/utilities

astFromValue buildASTSchema buildClientSchema buildSchema introspectionQuery isValidJSValue

isValidLiteralValue printIntrospectionSchema printSchema typeFromAST TypeInfo

graphql/validation

specifiedRules validate



https://graphql.org/graphql-js/