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Running an Express GraphQL Server

The simplest way to run a GraphQL API server is to use Express, a popular web application framework for Node.js. You will need to install two additional dependencies:

```
npm install express express-graphql graphql --save
```

Let's modify our "hello world" example so that it's an API server rather than a script that runs a single query. We can use the 'express' module to run a webserver, and instead of executing a query directly with the <code>graphq1</code> function, we can use the <code>express-graphq1</code> library to mount a GraphQL API server on the "/graphql" HTTP endpoint:

```
var express = require('express');
var { graphqlHTTP } = require('express-graphql');
var { 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!';
  },
};
var app = express();
app.use('/graphql', graphqlHTTP({
  schema: schema,
  rootValue: root,
  graphiql: true,
}));
app.listen(4000);
console.log('Running a GraphQL API server at http://localhost:4000/graphql');
```

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You can run this GraphQL server with:

```
node server.js
```

Since we configured <code>graphqlHTTP</code> with <code>graphiql: true</code>, you can use the GraphiQL tool to manually issue GraphQL queries. If you navigate in a web browser to <code>http://localhost:4000/graphql</code>, you should see an interface that lets you enter queries. It should look like:



This screen shot shows the GraphQL query { hello } being issued and giving a result of { data: { hello: 'Hello world!' } }. GraphiQL is a great tool for debugging and inspecting a server, so we recommend running it whenever your application is in development mode.

At this point you have learned how to run a GraphQL server and how to use GraphiQL interface to issue queries. The next step is to learn how to issue GraphQL queries from client code.

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