
Forge Data Days
Tokyo – 29 July 2022
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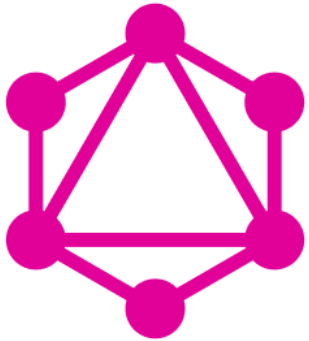
AUTODESK

GraphQLの概要

GraphQL

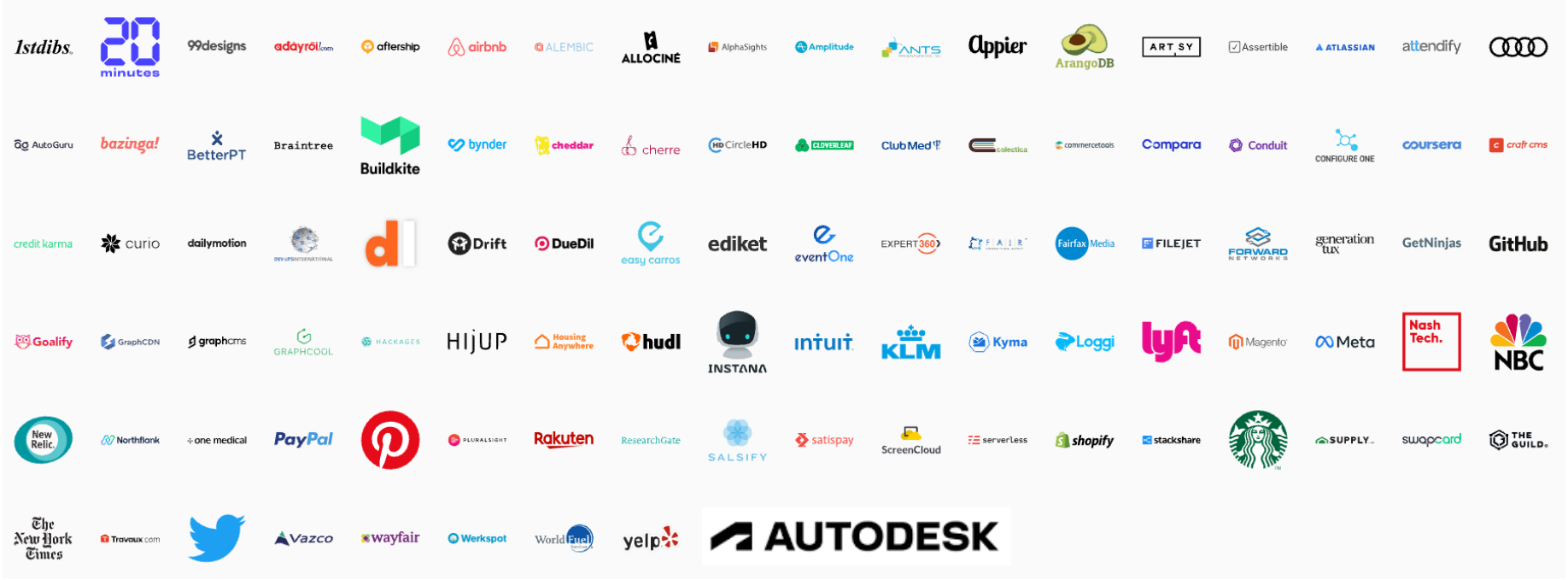


GraphQL

Meta

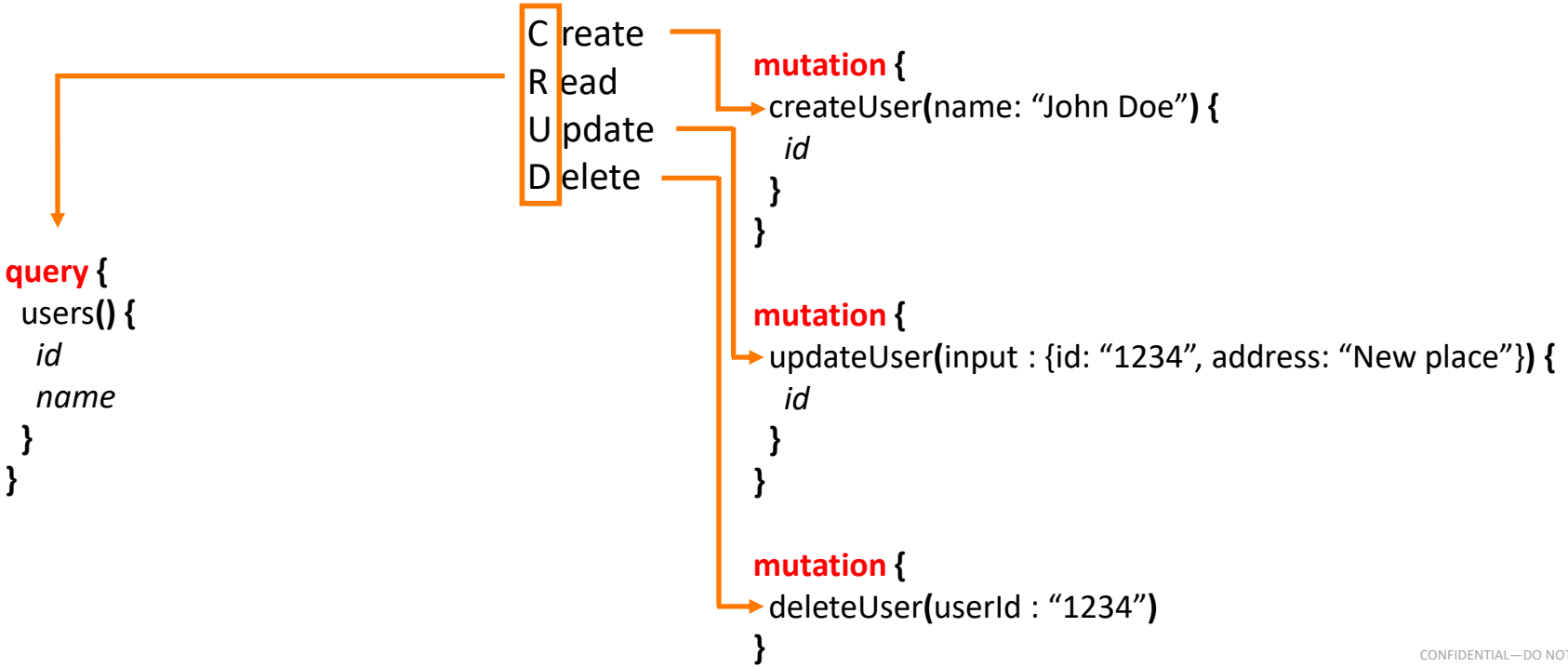
Developed: 2012 | Public release: 2015

GraphQL
ユーザ



GraphQL

CRUD

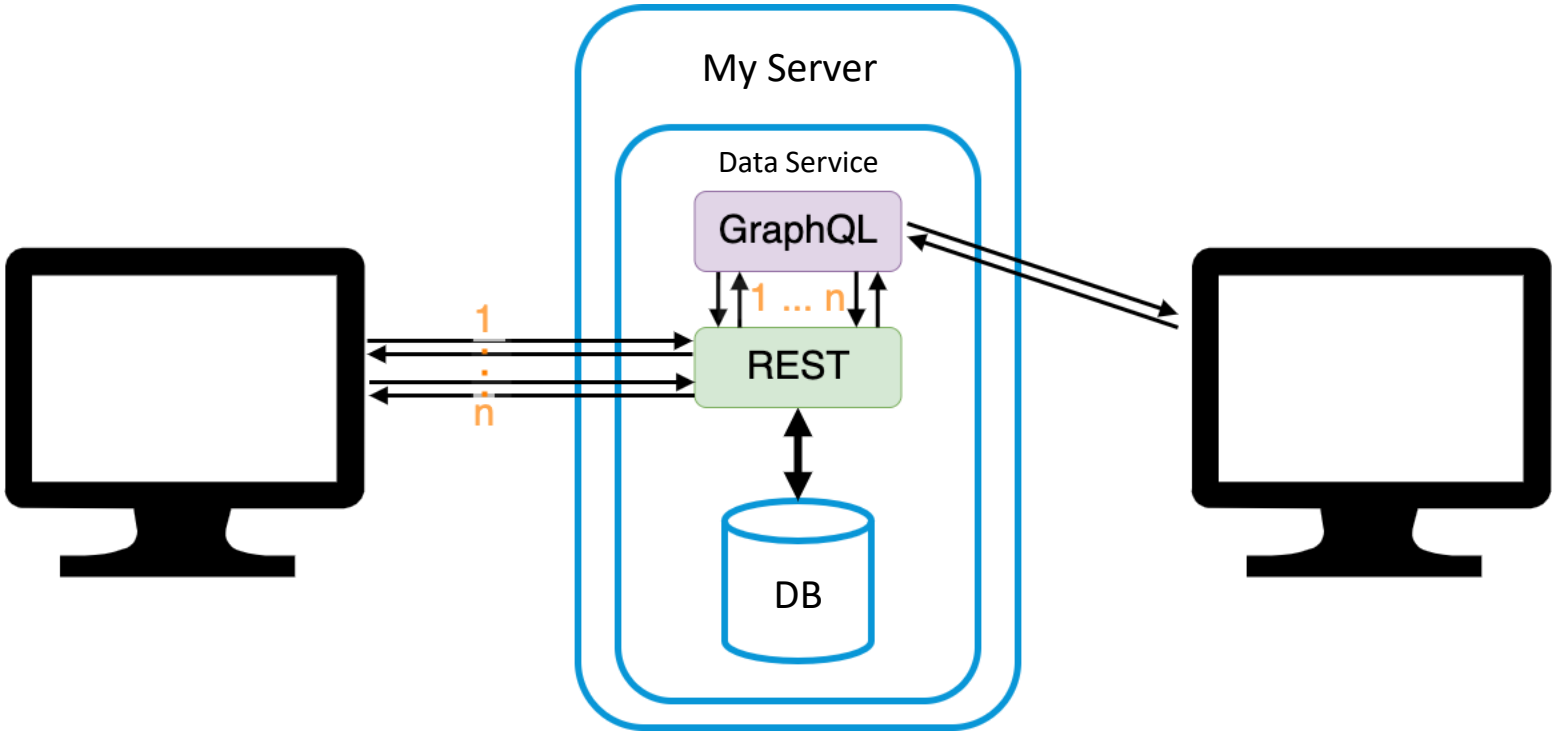


GraphQL
ドキュメント

https://graphql.org/

GraphQL

GraphQL vs REST



GraphQL
チュートリアル

https://graphql.org/graphql-js/running-an-express-graphql-server/

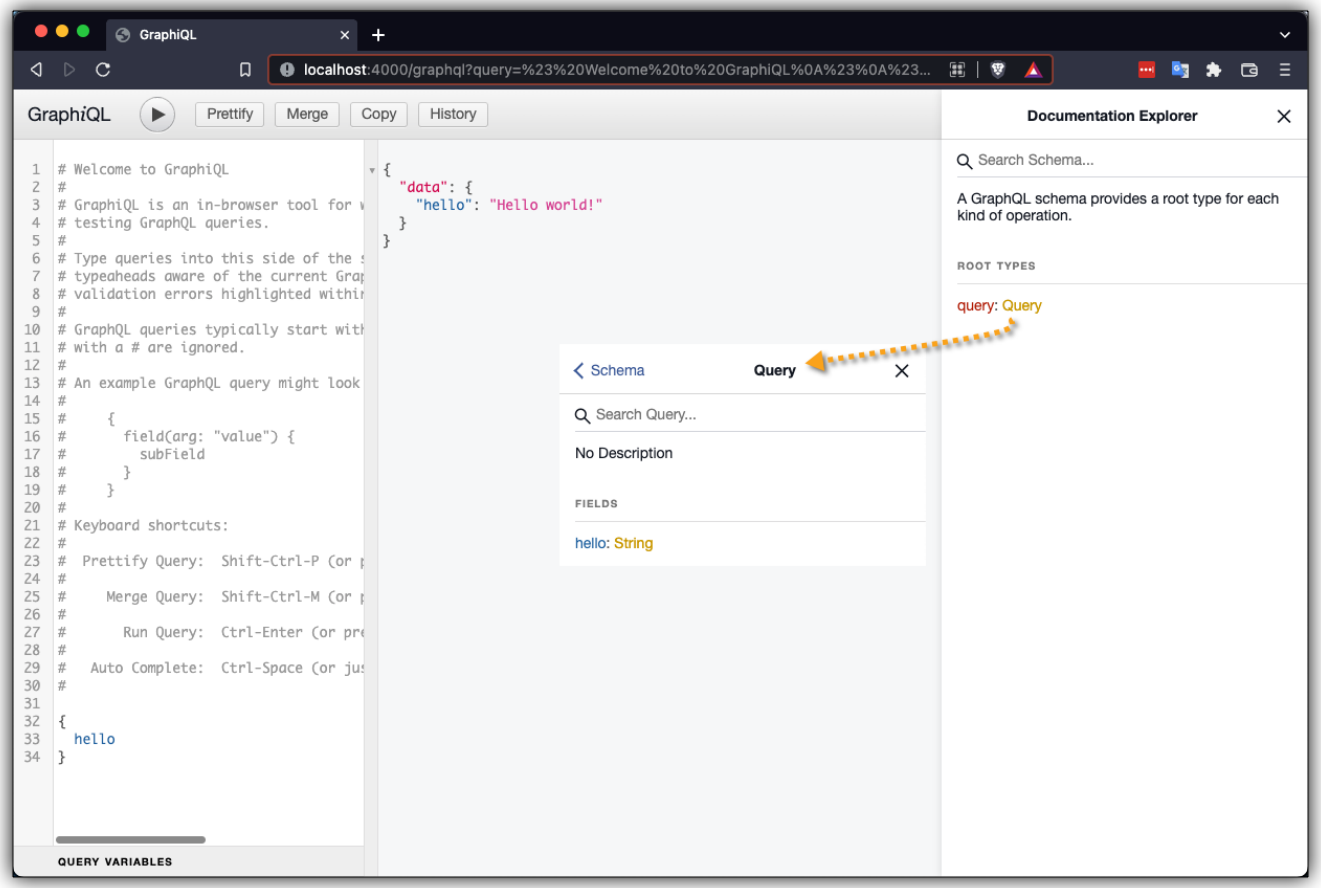
npm init

npm i express express-graphql graphql

GraphQL
チュートリアル

```
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');
```

GraphQL
チュートリアル



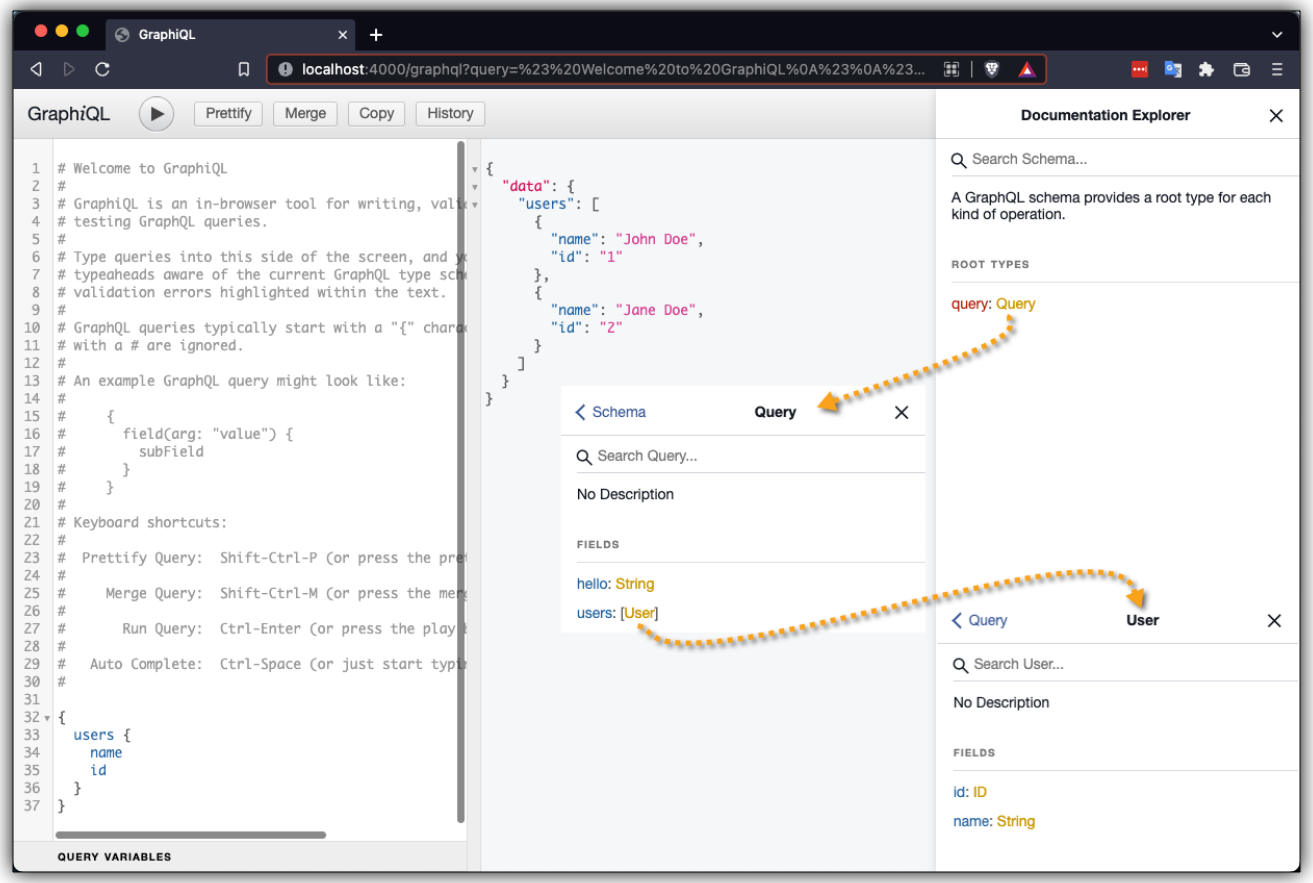
GraphQL
チュートリアル

```
var schema = buildSchema(`
  type Query {
    hello: String
    users: [User]
  },
  type User {
    id: ID
    name: String
  }
`);
```

```
let users = [{
  name: 'John Doe',
  id: '1'
}, {
  name: 'Jane Doe',
  id: '2'
}];

var root = {
  hello: () => {
    return 'Hello world!';
  },
  users: () => {
    return users;
  }
};
```

GraphQL
チュートリアル



GraphQL
チュートリアル

```
var schema = buildSchema(`
  type Query {
    hello: String
    users: [User]
  },
  type Mutation {
    createUser(name: String): User
  },
  type User {
    id: ID
    name: String
  }
`);
```

```
var root = {
  hello: () => {
    return 'Hello world!';
  },
  users: () => {
    return users
  },
  createUser: (input) => {
    let user = {
      name: input.name,
      id: users.length + 1
    };
    users.push(user);
    return user;
  }
};
```

GraphQL
チュートリアル