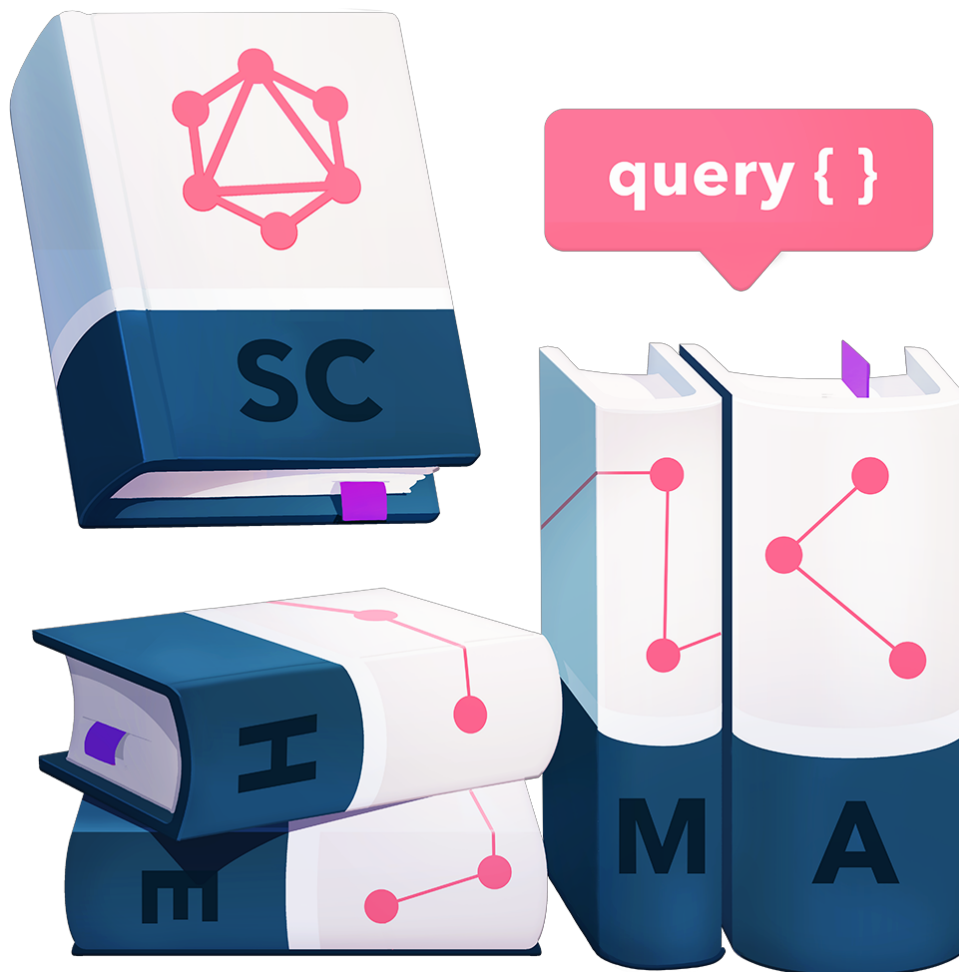


GraphQL Query Language

Cheat Sheet by Eve Porcello



Variables

You can pass arguments to a GraphQL query.

```
query ($category: PetCategory $status: PetStatus) {
  allPets(category: $category status: $status) {
    id
  }
}
```

And in Query Variables panel (in json format):

```
{
  "category": "DOG",
  "status": "AVAILABLE"
}
```

If a value **is not** provided (eg. by user input or in Query Variables panel), you can set up a **default value**:

```
query ($category: PetCategory=CAT) {
  allPets(category: $category) {
    id
  }
}
```

Operation Names

If there are multiple GraphQL queries in the same query document, you need to give the query an operation name.

```
query PetPage {
  ...
}
query CustomerPage {
  ...
}
```

Aliases

Use GraphQL Aliases to query the same field with different arguments and solve the naming collisions problem.

```
query {
  available: totalPets(status: AVAILABLE)
  checkedOut: totalPets(status: CHECKEDOUT)
}
```

Subscription

Whenever you have any real-time needs in your application, you're going to use a subscription. Then you can use a mutation to trigger that change.

```
subscription {
  petReturned {
    pet {
      name
    }
  }
}
```

```
mutation {
  checkIn(id: "C-2") {
    pet {
      name
    }
  }
}
```

Fragments

Fragments are selection sets that can be used across multiple queries.

Define a PetDetails fragment:

```
fragment PetDetails on Pet {
  name
  weight
  category
  status
}
```

Use spread `...` syntax to push all of the `PetDetails` into this query:

```
query {
  allPets(category: RABBIT, status: AVAILABLE) {
    ...PetDetails
  }
}

fragment PetDetails on Pet {
  name
  weight
  category
  status
}
```

Mutations

Mutations give you the ability to invoke backend functions from the client.

Use an Input Type to Create an Account with a GraphQL Mutation:

```
mutation ($input: CreateAccountInput!) {
  createAccount(input: $input) {
    username
    name
  }
}
```

in Query Variables panel:

```
{
  "input": {
    "name": "Eve Porcello",
    "username": "ep123",
    "password": "pass"
  }
}
```

Authenticate a User with a GraphQL Mutation:

```
mutation {
  login(username: "ep123" password: "pass") {
    customer {
      name
    }
    token
  }
}
```

Union

Use unions whenever you want to return a list of multiple types.

```
query {
  familyPets {
    __typename
    ... on Cat {
      name
      sleepAmount
    }
    ... on Dog {
      name
      good
    }
  }
}
```

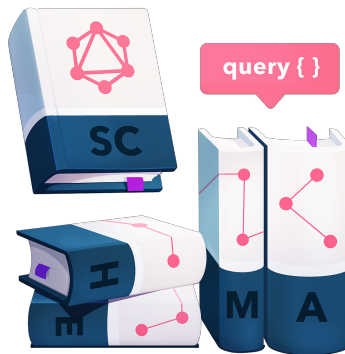


Eve Porcello

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I'm the co-owner of Moon Highway, a training and curriculum development company focused on JavaScript, React, and GraphQL. We teach classes to engineers in-person and online, and we wrote O'Reilly's Learning GraphQL and Learning React. I live in Tahoe City, California and love to ski, backpack, hike, and look at trees and lakes as much as possible.

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