



GraphQL cheatsheet

A query language for your APIs

Why GraphQL?

- No overfetching
- Type safety
- Introspection
- Self documenting
- Code generation
- Versionless design
- and more!

Learn more at graphql.org

Describe your data

```
type Project {
  name: String
  tagline: String
  contributors: [User]
}
```

Ask for what you want

```
{
  project(name:
    "GraphQL") {
    tagline
  }
}
```

Get predictable results

```
{
  "project": {
    "tagline": "A query
language for APIs"
  }
}
```

Operations

query: read data
mutation: modify data
subscription: listen
to data updates

Built in scalars

scalar Int
scalar Float
scalar String
scalar Boolean
scalar ID

Objects

```
type User {
  id: ID
  name: String
  age: Int
}
```

Interfaces

```
interface Node {
  id: ID
}

type User implements
Node {
  id: ID
  name: String
  age: Int
}
```

Unions

union Sponsor = User |
Organisation

Enums

```
enum Visibility {
  PUBLIC
  INTERNAL
  PRIVATE
}
```

Custom scalars

scalar DateTime
scalar Url

Arguments

```
type Query {
  user(id: ID): User
}
```

Input objects

```
input UserInput {
  name: String
  age: Int
}

type Mutation {
  updateUser(userInput:
    UserInput): UserResult
}
```

Nullability

```
type User {
  # non-nullable
  name: String!
  # nullable
  email: String
}
```

Arrays

```
type User {
  projects: [Project!]!
  friends: [User]
}
```

Descriptions

"A user of this API"
type User {
 "The name of the
user"
 name: String
}

Comments

comments start with
the '#' character