Inline Fragments

Like many other type systems, GraphQL schemas include the ability to define interfaces and union types. Learn about them in the schema guide.

If you are querying a field that returns an interface or a union type, you will need to use *inline fragments* to access data on the underlying concrete type. It's easiest to see with an example:

In this query, the hero field returns the type Character, which might be either a Human or a Droid depending on the episode argument. In the direct selection, you can only ask for fields that exist on the Character interface, such as name.

To ask for a field on the concrete type, you need to use an *inline fragment* with a type condition. Because the first fragment is labeled as ... on Droid, the primaryFunction field will only be executed if the Character returned from hero is of the Droid type. Similarly for the height field for the Human type.

Named fragments can also be used in the same way, since a named fragment always has a type attached.

Meta fields

Given that there are some situations where you don't know what type you'll get back from the GraphQL service, you need some way to determine how to handle that data on the client. GraphQL allows you to request __typename, a meta field, at any point in a query to get the name of the object type at that point.

```
"data": {
search(text: "an") {
                                             "search": [
  __typename
  ... on Human {
                                                 "__typename": "Human",
   name
                                                 "name": "Han Solo"
  ... on Droid {
                                               },
   name
                                                 "__typename": "Human",
  ... on Starship {
                                                 "name": "Leia Organa"
   name
  }
                                                 "__typename": "Starship",
}
                                                 "name": "TIE Advanced x1"
```

In the above query, search returns a union type that can be one of three options. It would be impossible to tell apart the different types from the client without the __typename field.

GraphQL services provide a few meta fields, the rest of which are used to expose the Introspection system.