

Headless Content and GraphQL with OCM

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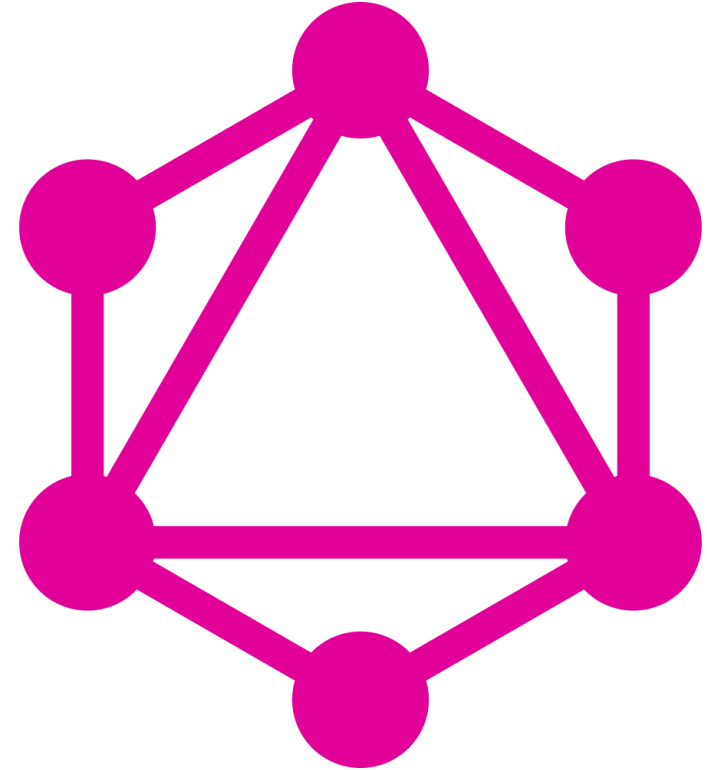
Agenda

- **About GraphQL**
- **GraphQL in OCM**
- **Use case example**

Headless CMS and OCM

Graph – q – what?

- GraphQL is a query language for APIs
- Provides description of the data in your API
- Gives clients the power to ask for exactly what they need
- Makes it easier to evolve APIs
- Enables powerful developer tools



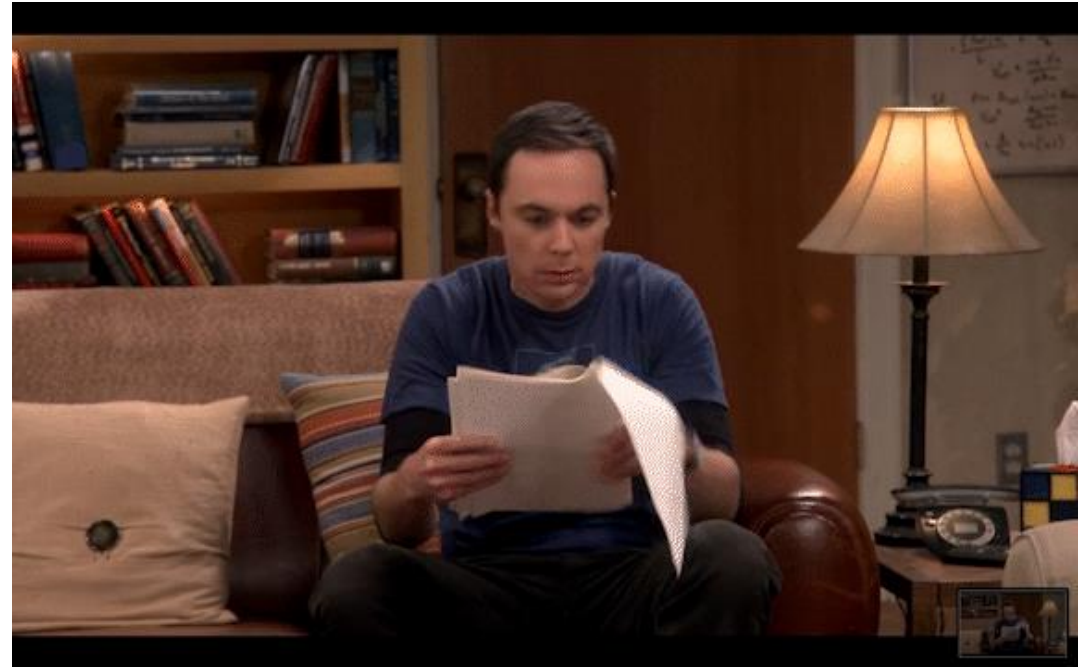
Why use graphql?



- Send a GraphQL query to your API and get exactly what you need, nothing more and nothing less.
- GraphQL queries always return predictable results.
- Apps using GraphQL are fast and stable because they control the data they get, not the server.

WHY?!

- GraphQL queries access not just the properties of one resource but also smoothly follows references between them.



How?!

```
{
  hero {
    name
    friends {
      name
      homeWorld {
        name
        climate
      }
      species {
        name
        lifespan
        origin {
          name
        }
      }
    }
  }
}
```

```
type Query {
  hero: Character
}

type Character {
  name: String
  friends: [Character]
  homeWorld: Planet
  species: Species
}

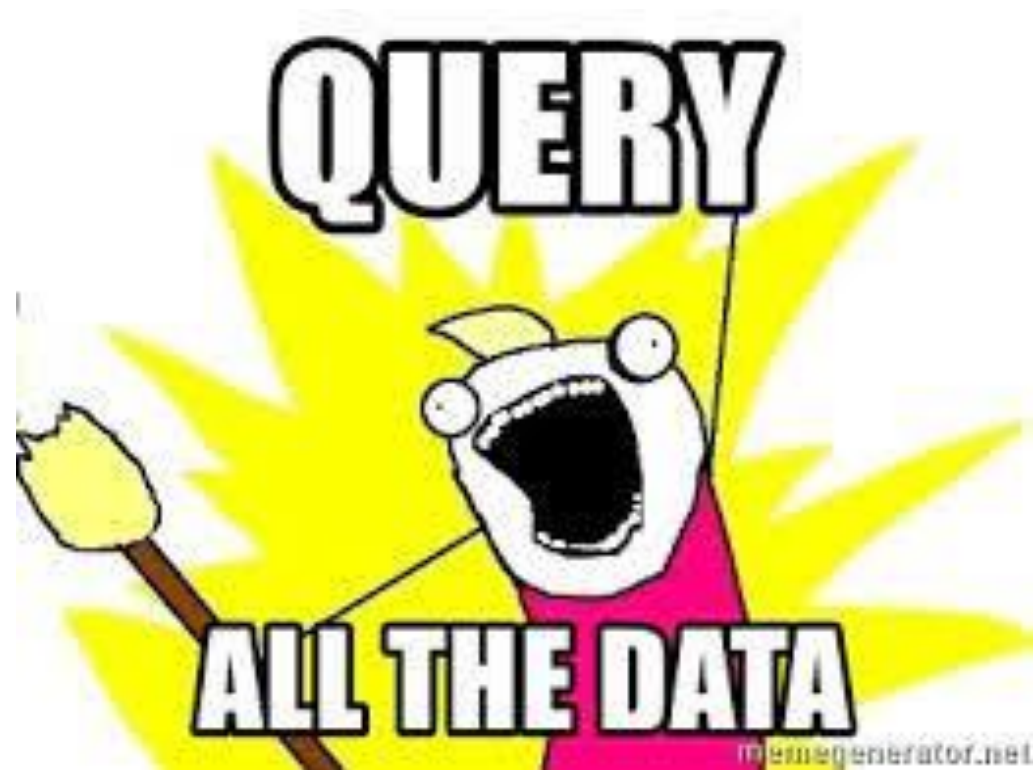
type Planet {
  name: String
  climate: String
}

type Species {
  name: String
  lifespan: Int
  origin: Planet
}
```

- GraphQL APIs are organized in terms of types and fields
- Single endpoint
- GraphQL uses types to ensure Apps only ask for what's possible
- Avoid manual parsing code

What does graphql wants?!

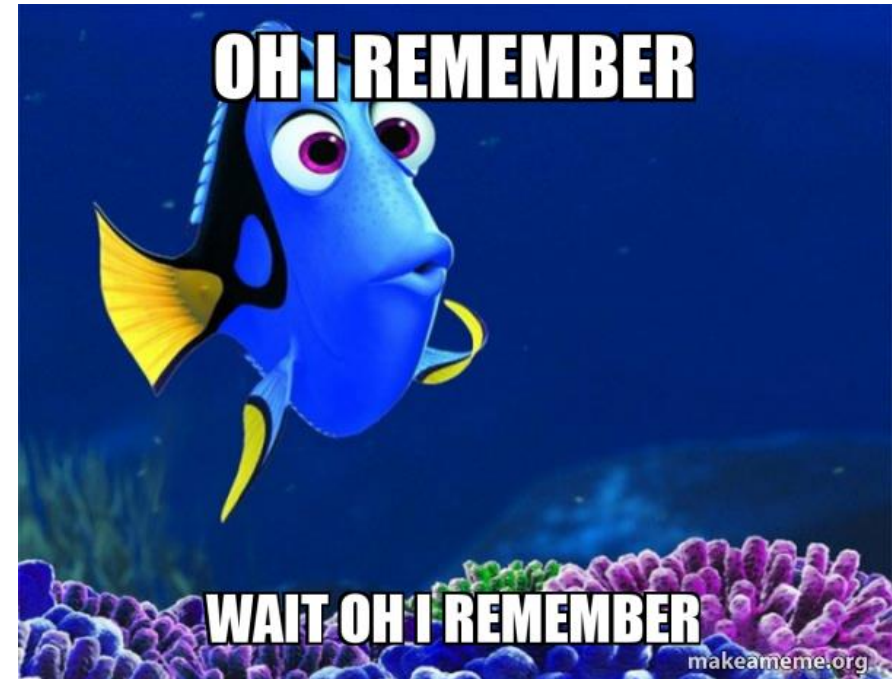
- Fields
- Arguments
- Aliases
- Fragments
- Operation Name
- Variables
- Directives
 - @include(if: Boolean)
 - @skip(if: Boolean)



GraphQL in OCM

Remember OCM Assets?

- **Asset type.**
- **Content.**
- ~~Localization policy.~~
- ~~Publishing channel.~~
- ~~Taxonomy.~~
- ~~Repository.~~



Think about it...

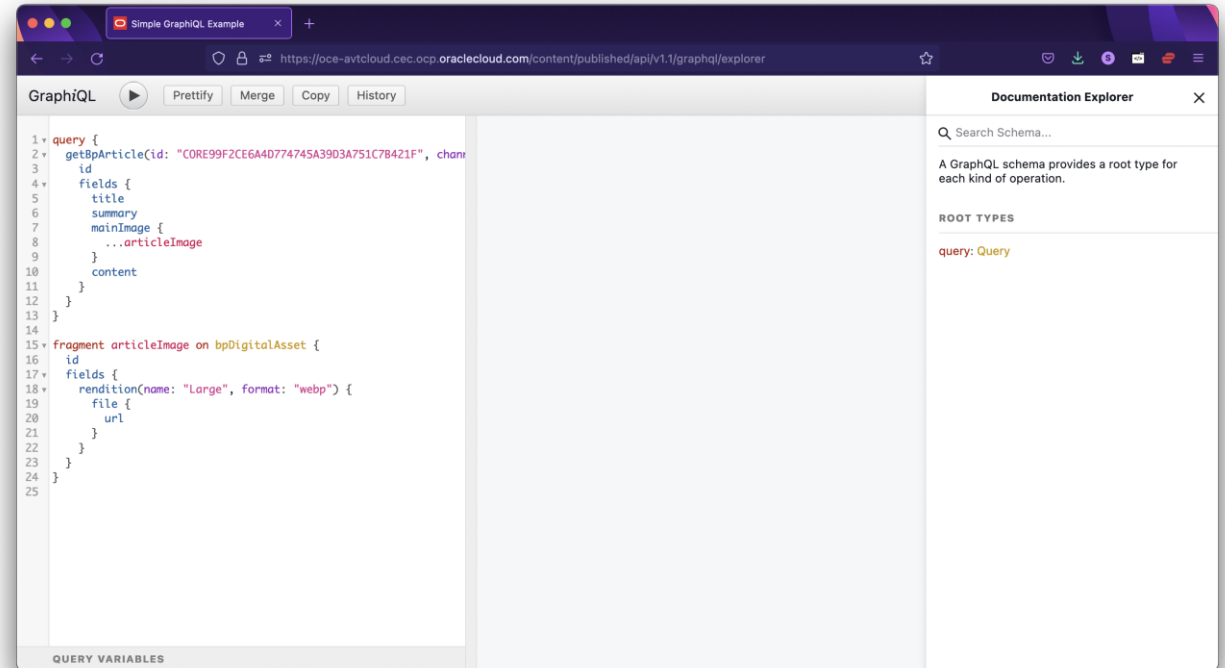


- Asset Attributes -> GraphQL fields
- Asset Types -> GraphQL types
- Asset References -> Field references

- Fits perfect for graphql!

Graphql in OCM

- /content/published/api/v1.1/graphql/explorer
- Only for querying assets
- Best for headless content



Less talk, more code!

Use case example

Let's see it in action!



Insights you can act on

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