

Open source with Haskell

Marion Schleifer @rubydwarf

My job...

Developer Experience Engineer



In my free time...



On weekends...



Remote speaker



Alexis King

@lexi_lambda

Agenda







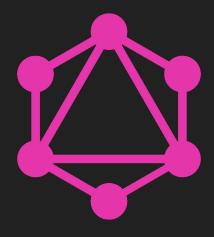


GraphQL

Build an API

Server architecture

Contribute



GraphQL

GraphQL











Typed query language

One endpoint

Nested resources

Workflow

Get exact results

Describe your data

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

Describe your data

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

Ask for what you want

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

Describe your data

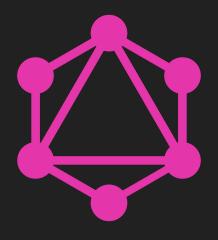
```
type Project {
  name: String
  tagline: String
  contributors: [User]
}
```

Ask for what you want

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

Get predictable results

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



REST vs. GraphQL

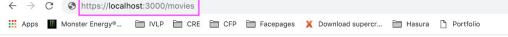
REST vs. GraphQL

REST

- Endpoint for every resource (chaining)
- Different HTTP methods (GET, POST etc.)
- Overfetching / underfetching

GraphQL

- One endpoint
- Always POST request
- Get only needed data



Harry Potter Movies



Harry Potter and the Philosopher's Stone

In late 1981, Albus Dumbledore, Minerva McGonagall, and Rubeus Hagrid, professors of Hogwarts School of Witchcraft and Wizardry, deliver a recently orphaned infant named Harry Potter to his only remaining relatives, the Dursleys.

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Harry Potter and the Chamber of Secrets

Harry Potter spends the summer with The Dursleys without receiving letters from his Hogwarts friends. In his room, Harry meets Dobby, a house-elf who warns him of a peril that will take shape if he returns to Hogwarts. Dobby reveals that he intercepted his friends' letters.

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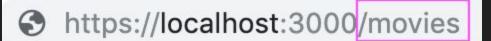


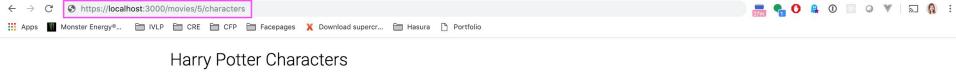
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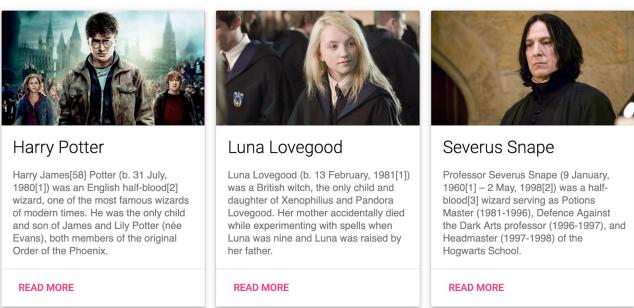
Harry Potter and the Prisoner of Azkaban

Harry Potter has been spending another dissatisfying summer with The Dursleys. When Harry's Aunt Marge insults his parents, he loses his temper and silently wills her to bloat up and float away. Fed up, Harry then flees the Dursleys with his luggage.

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Harry Potter Actors



Daniel Radcliffe

Daniel Jacob Radcliffe was born on July 23, 1989 in Fulham, London, England, to casting agent Marcia Gresham (née Jacobson) and literary agent Alan Radcliffe. His father is from a Northern Irish Protestant background, while his mother was born in South Africa, to a Jewish family

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Evanna Lynch

Evanna Patricia Lynch is an Irish actress. Born in the town of Termonfeckin in Ireland, she is one of four children to Donal and Marguerite Lynch. Her acting career began in 2007 when she competed in an open audition against nearly 15,000 girls, and won the coveted role of Luna Lovegood

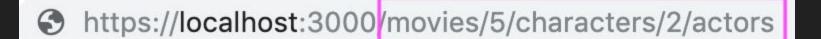
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Alan Rickman

Alan Rickman was born on a council estate in Acton, West London, to Margaret Doreen Rose (Bartlett) and Bernard Rickman, who worked at a factory. He had English, Irish, and Welsh ancestry. Alan had an older brother David, a younger brother Michael and a younger sister Sheila.

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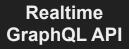




Hasura

Hasura







Open source





Postgres



Haskell

The goals are to have...







Low latency

High throughput

Light on resources

Features









Authentication

Authorization

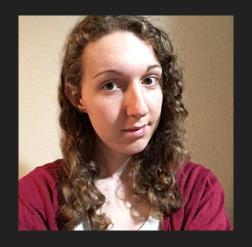
Data security

Business logic

Demo



Server architecture



Alexis King

@lexi_lambda



Contribute



We're hiring Haskell engineers



Thank you

@rubydwarf
hasura.io
github.com/hasura/graphql-engine