INTRODUCTION TO GRAPHQL

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@K0EMT

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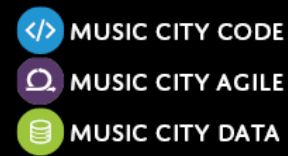
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PEOPLE.IDEAS.SOLUTIONS.

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NASHVILLE SOFTWARE SCHOOL

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CORE CONCEPTS

- API technology
  - specification
- NOT strictly JavaScript

CORE CONCEPTS

SELECT * FROM table;

SELECT field1, field15 FROM table;

SELECT a.field1, a.field15, b.field2, b.field5 FROM table a inner join table b on a.bId = b.Id;
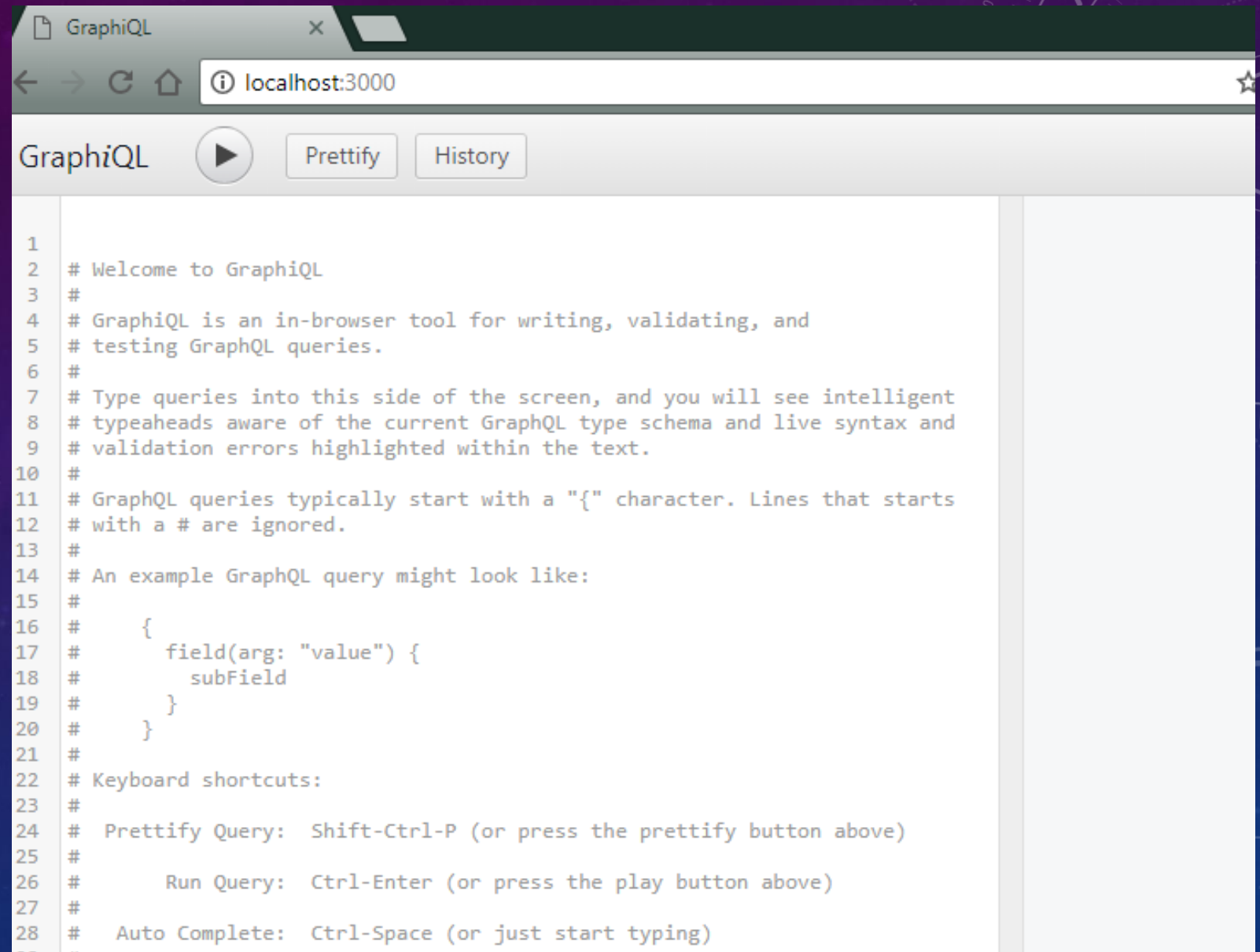
CORE CONCEPTS

- Schema
  - SDL/IDL
- Query
- Data

INTERACTIVE CLIENTS

- **Curl**
- GraphiQL
- Insomnia

```
curl --request GET
--url http://localhost:3000/
--header 'content-type: application/json'
--data '{"query":"{hello}"}'
```

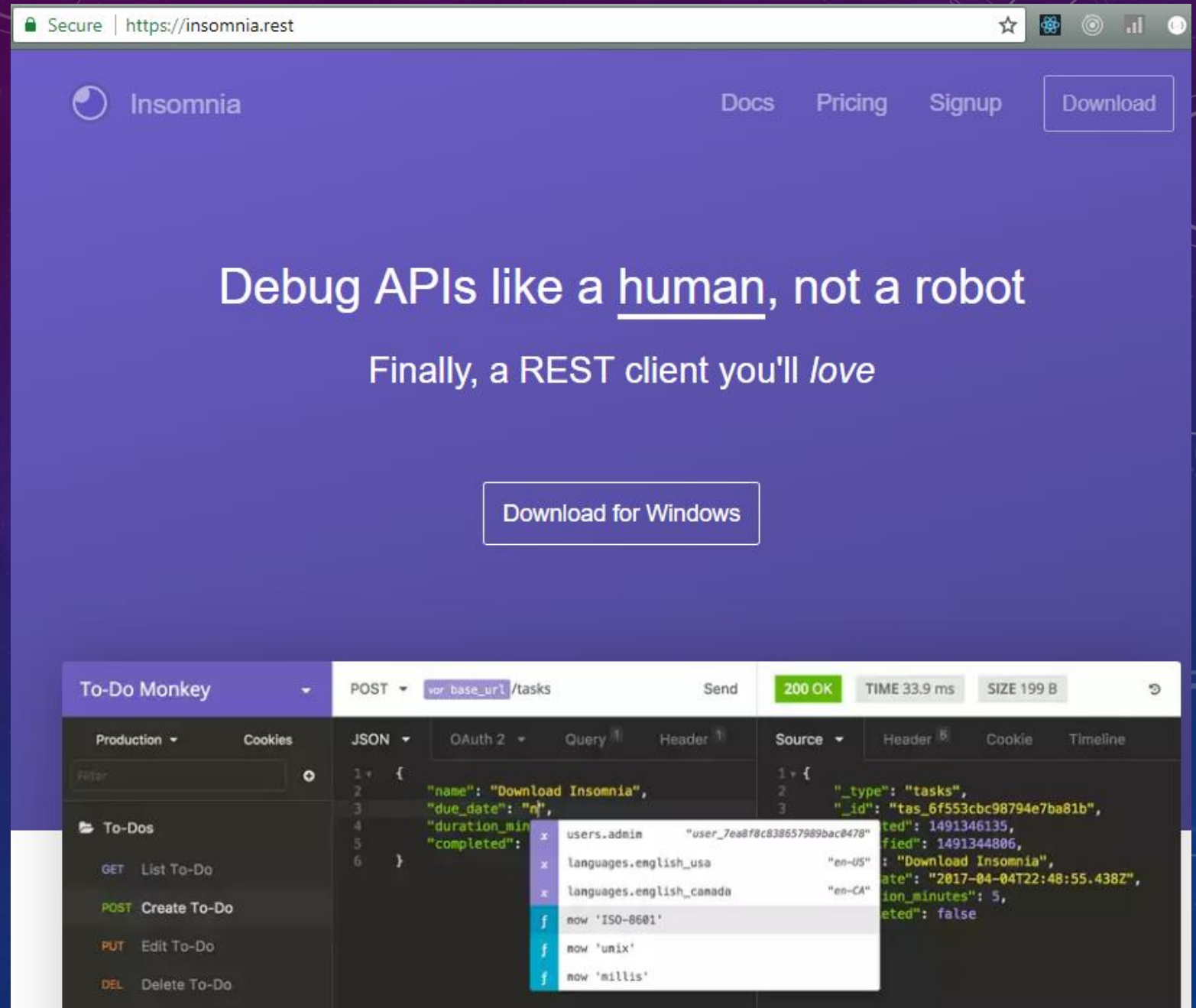# INTERACTIVE CLIENTS

- Curl
- **GraphiQL**
- Insomnia

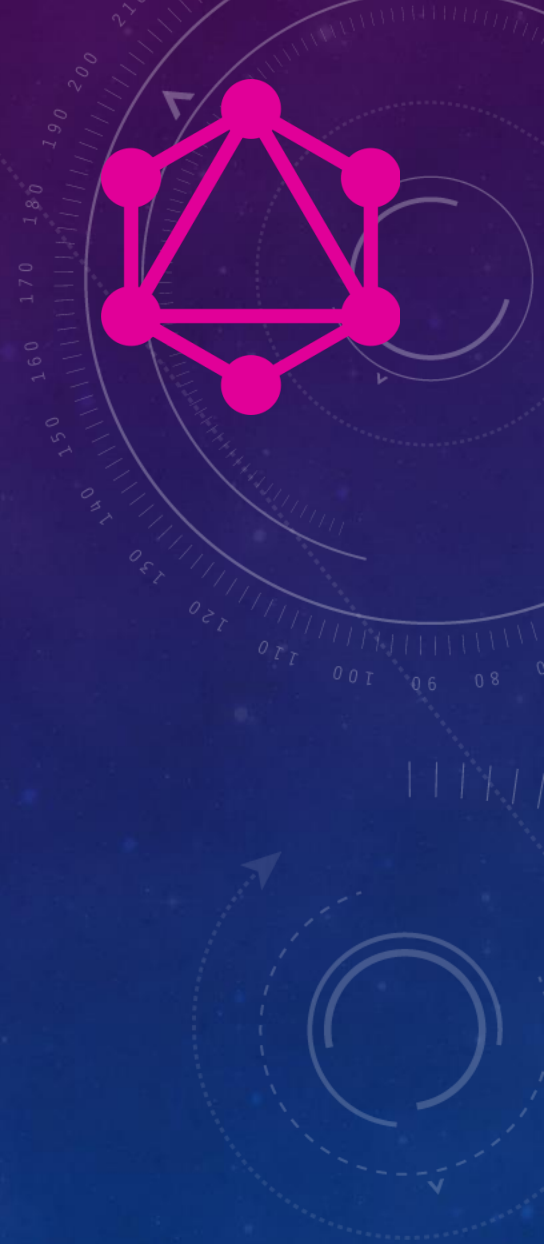# INTERACTIVE CLIENTS

- Curl
- GraphiQL
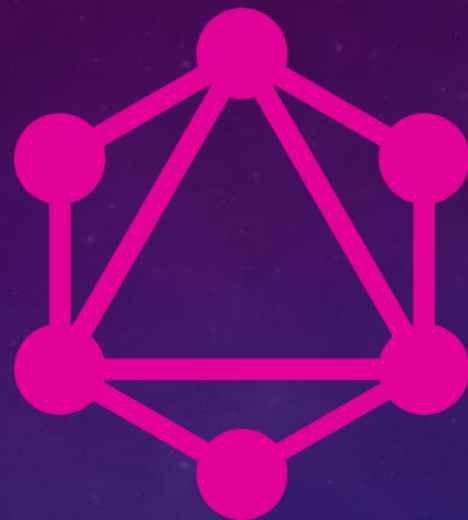- **Insomnia**

Let's see some code!

COMMON USE CASES

- GraphQL server with a connected database
- GraphQL server that serves as a façade
- Hybrid of the above two approaches

ISSUES

- Request Caching
- Security
  - Timeouts
  - query depth
  - query complexity

WHERE DO I GO FROM HERE?

EXPLORE CONCEPTS

- Mutations
- Subscriptions
- Deferred query
- Union queries
- Pagination

- Query Variables
- Fragments

EXAMPLE APIs

- https://graphcms.com/blog/the-star-wars-api-just-got-a-makeover/
  - https://api.graphcms.com/simple/v1/swapi
- https://github.com/APIs-guru/graphql-apis
  - https://api.hollowverse.com/playground
- Graphql-faker

RESOURCES

- github.com/steveluscher/zero-to-graphql

- howtographql.com

- Express-graphql

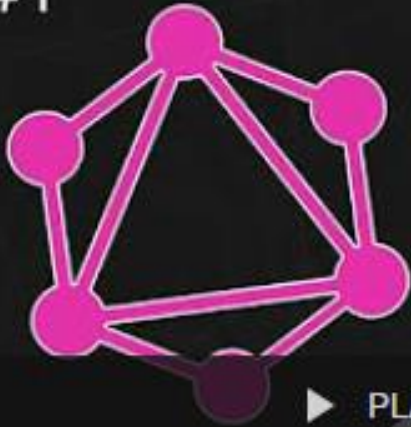- Schema Exploration: apis.guru/graphql-voyager

- Extension for VS Code

VIDEO TRAINING
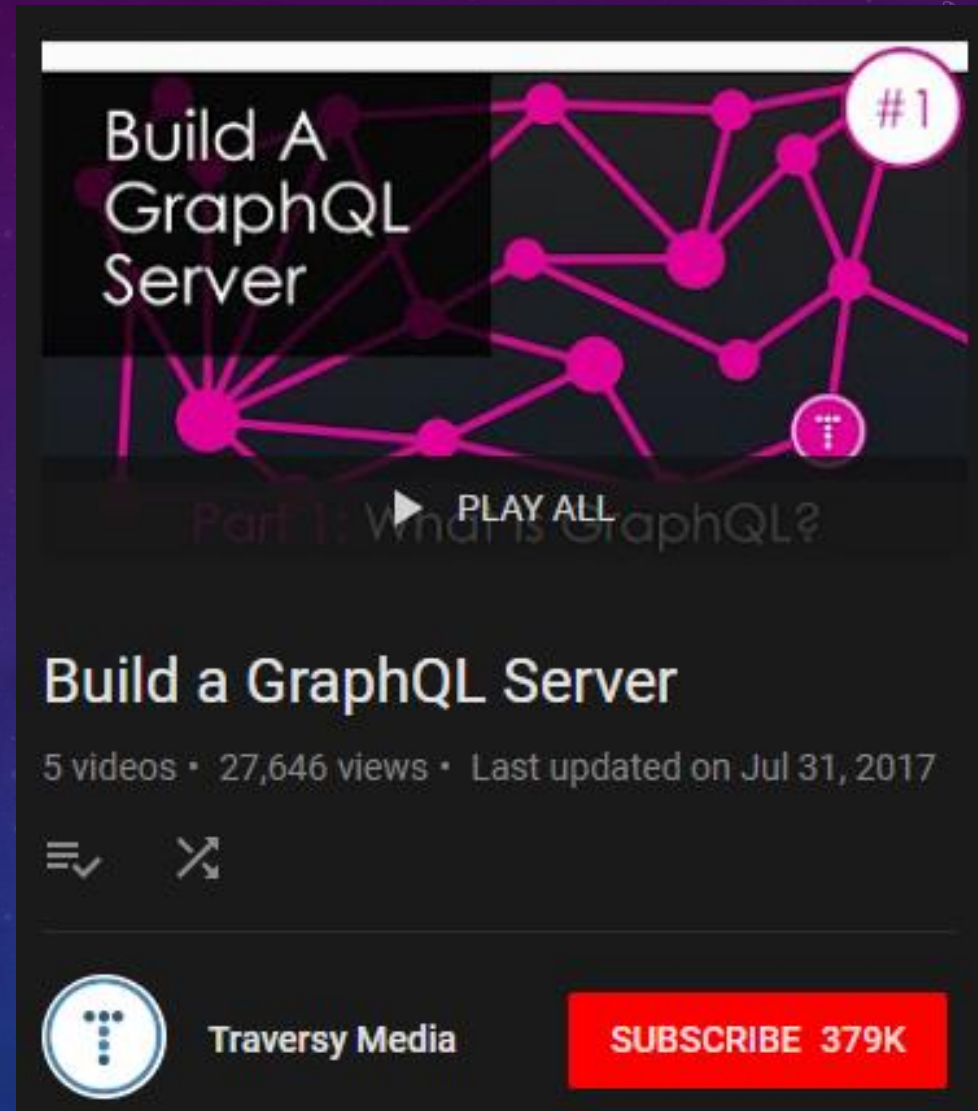
• https://www.youtube.com/playlist?list=PLillGF-RfqbYZty73_PHBqKRDnv7ikh68

VIDEO TRAINING

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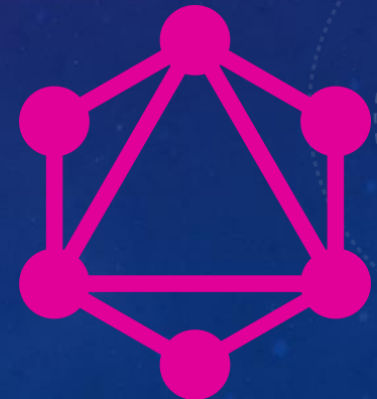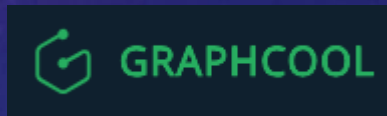
EXPLORE RELATED PROJECTS

- Relay
- Apollo
- GraphCool
- GraphQL-CLI

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https://github.com/k0emt/Presentations
https://github.com/k0emt/graphql-exploration

finished