The Evolution of an API: A Case for GraphQL

UtahJS 2019 · Kylie Stewart

Hi! I'm Kylie



What is an API?



Application Programming Interface

History of APIs

"The concept of an API pre-dates even the advent of personal computing, let alone the Web, ... The principal of a well documented set of publicly addressable "entry points" that allow an application to interact with another system has been an essential part of software development since the earliest days of utility data processing."

- Martin Bartlett

Successes and Failures









February 7th, 2000





November 20th, 2000



eBay Developers Program

2003

del.icio.us

http://del.icio.us/tag/[tag name]/



2004 - 2006







APIs need to...

✓ be scalable
✓ deliver meaninful services

July 2005

ProgrammableWeb



Representational

State

Transfer

Single

Object

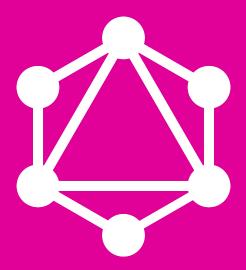
Access

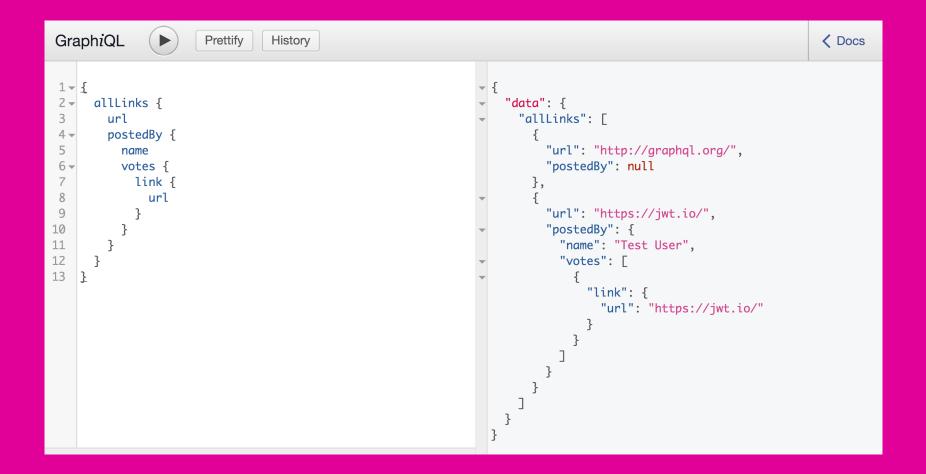
Protocol

And Beyond!

- Amazon s3
- Google Maps
 - Foursquare
 - Twilio

Now: GraphQL





Important Pros

- The client specifies exactly what it needs
- Easier to aggregate data from variable sources
- Types define your data *



-@emmabrillhart

Remember REST vs SOAP?

Say hello to resolvers

Getting Started with GraphQL

github.com/kale-stew/sample-server

github.com/kale-stew/talks

Thank you!

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