

GraphQL

APIs robustas e escaláveis.



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REST

Little problems.

Endpoints, endpoints
everywhere.

**Dados resposta,
são todos usados?**



```
1 {  
2   instagram {  
3     user {  
4       media {  
5         nodes {  
6           id  
7           is_video  
8           code  
9           thumbnail_src  
10        }  
11      }  
12    }  
13  }  
14 }
```

```
{  
  "data": {  
    "instagram": {  
      "user": {  
        "media": {  
          "nodes": [  
            {  
              "id": "1577884294210464545",  
              "is_video": false,  
              "code": "BXlxwFVFSsh",  
              "thumbnail_src": "https://scontent-gru2-2.cdninstagram.com/t51.2885-15/s640x640/sh0.08/e35/c203.0.673.673/20759145_1700065166713150_1928403044177805312_n.jpg"  
            },  
            {  
              "id": "1576476970833008354",  
              "is_video": false,  
              "code": "BXgxXPTFdbi",  
              "thumbnail_src": "https://scontent-gru2-2.cdninstagram.com/t51.2885-15/s640x640/sh0.08/e35/20633836_934651506673948_8367178166187327488_n.jpg"  
            },  
          ]  
        }  
      }  
    }  
  }  
}
```

"Analisarmos alternativas, como o REST. (...) Ficamos frustrados com as diferenças entre os dados que queríamos e as requests que eram necessárias para obtê-los."

Lee Byron

2012

GraphQL é criado pelo facebook apenas
para uso interno.

2015

GraphQL é liberado como open source.

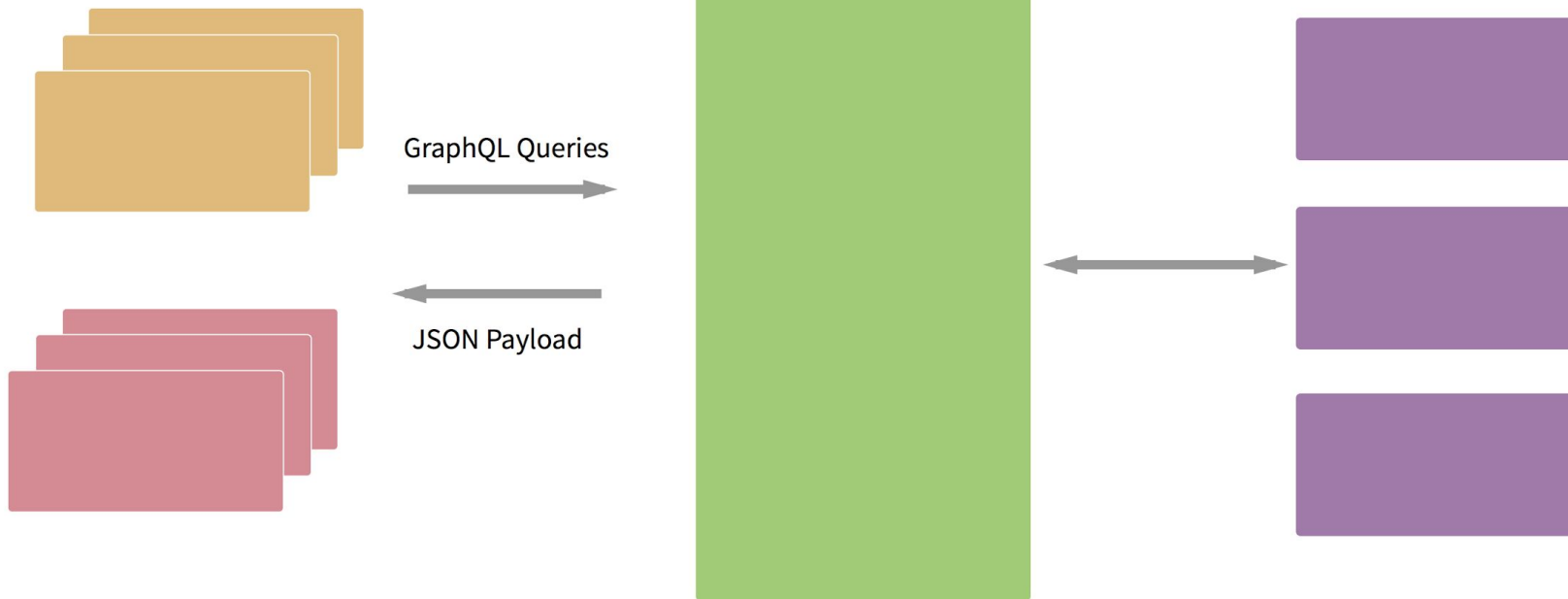
A query language

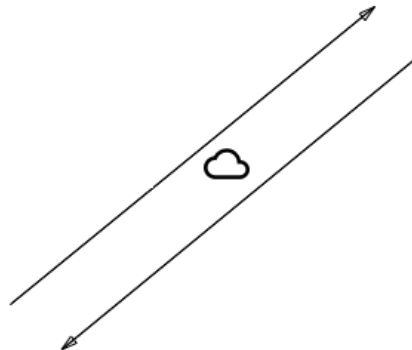
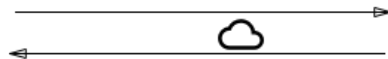
O client pede o que precisa, e a resposta é refletida do pedido.

Different
Client Apps

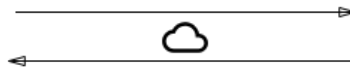
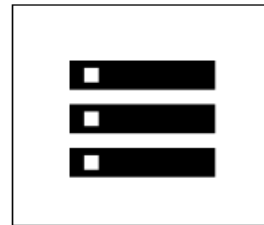
GraphQL
Server

Data Sources

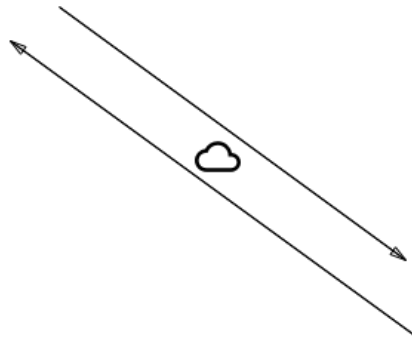
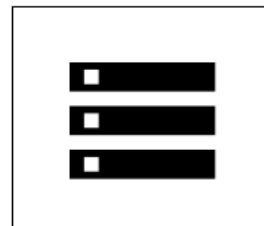




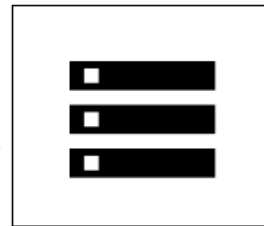
Legacy System



Microservice



Third-party API



Queries!

```
query {  
  user (_id: "14") {  
    name,  
    email  
  }  
}
```

```
{  
  "data": {  
    "user": {  
      "_id": "14",  
      "name": "Henrique Chaves",  
      "email": "hnrqchvs@gmail.com"  
    }  
  }  
}
```

Mutations!

```
mutation {  
  addUser (name: "Henrique") {  
    name,  
    password  
  }  
}
```

```
{  
  "data": {  
    "addUser": {  
      "name": "Henrique",  
      "password": "powerfulkeyword"  
    }  
  }  
}
```


Demo!

Um pouco de LiveCode.

Obrigado!