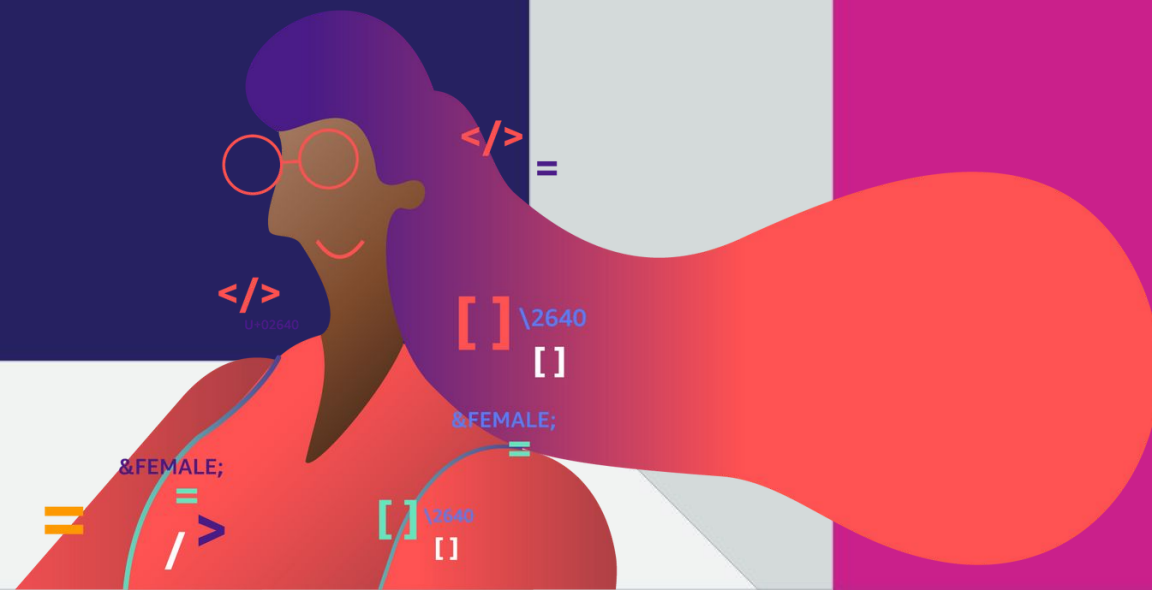




# The case for REST

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Software Engineer  
Red Hat





# REST in peace, SOAP

OCTOBER 15, 2010  
IN TECH MUSINGS

## REST is the new SOAP



Pakal De Bonchamp

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Dec 16, 2017 · 13 min read

JULY 24, 2017 / #GRAPHQL

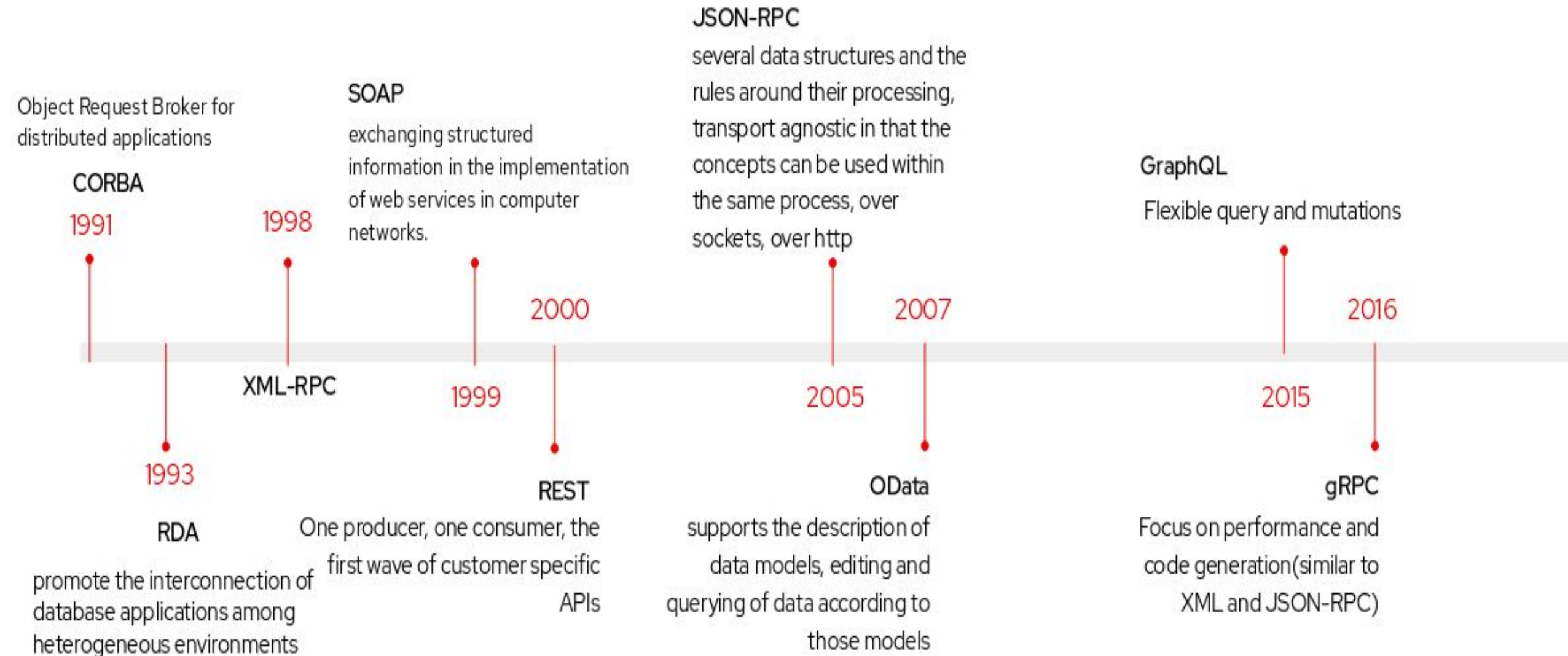
## REST APIs are REST-in-Peace APIs. Long Live GraphQL.



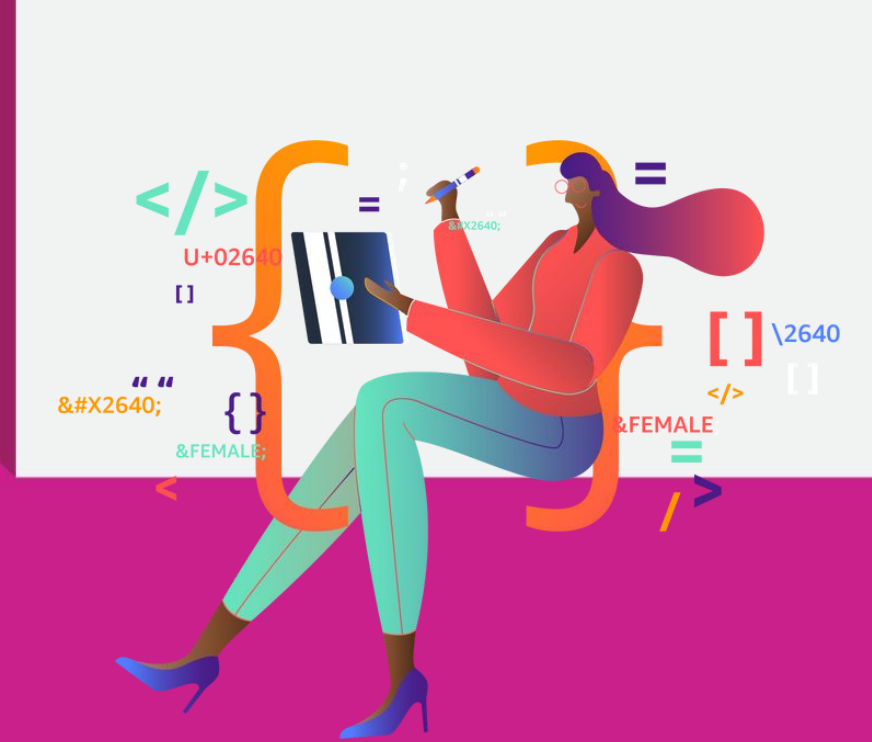
Samer Buna

# API timeline

## Paradigm shifts



# Efficiency



# Underfetching in REST



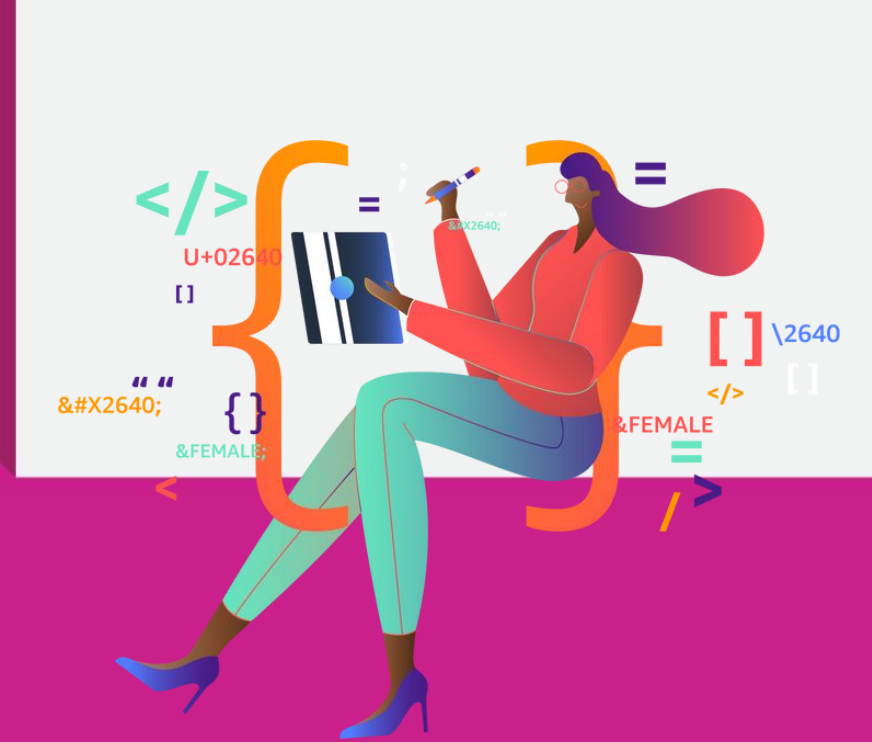
```
/api/recipes?include=category
```

# Overfetching in REST



```
...?fields[resource-type]=field_name1, field_name2
```

# JSON APIs ?



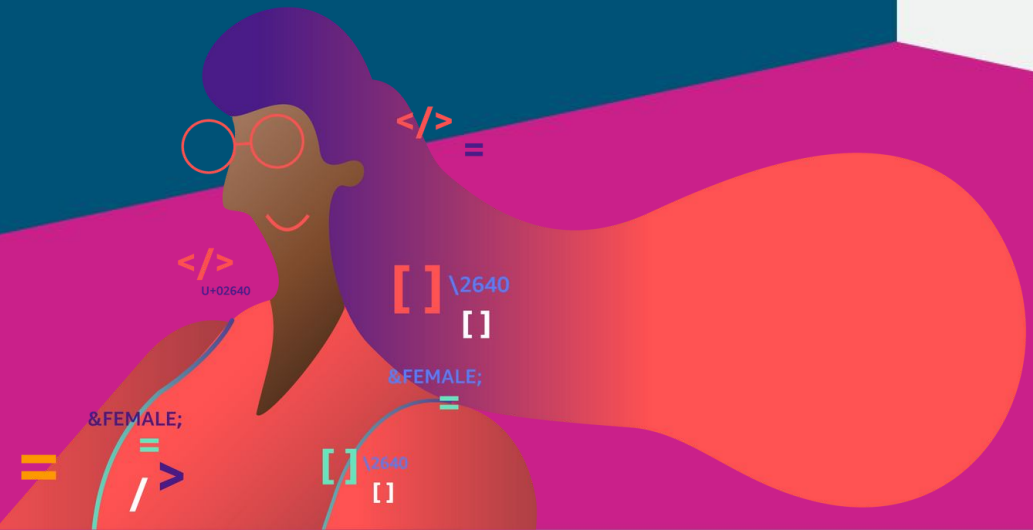
# Versioning

- Technique to handle breaking changes
- Prefer graceful evolution
- Not a substitute for communicating with users





# Domain modelling is purely a REST concern



# REST

## Advantages

- Standard method names, arguments and status codes
- Utilizes HTTP features
- Easy to maintain

## Disadvantages

- Big payloads
- Multiple HTTP roundtrips

## Use cases

- Best for APIs that expose CRUD like operations



# Specific use cases of REST, GraphQL and gRPC



## REST

- Application web forms that involve simple CRUD

## GraphQL

- Composite web forms or microservices that involve schema stitching using multiple APIs, data source agnostic

## gRPC

- Native mobile BFF which involves single client, API is static and well documented, mostly single clients with real-time interaction

# Further reading/viewing

GraphQL, gRPC or REST- Resolving the API developers dilemma by Rob Crowley

<https://nordicapis.com/when-to-use-what-rest-graphql-webhooks-grpc/>



# Reach out to me



manaswinidas



# Thank you!

