

# Mission Apollo:

## Bring UI5 to the Moon

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ON AIR   
UI5con

# Mission Goals

What do we want to achieve?

- GraphQL in UI5

## Next Steps

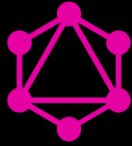
- Briefing
- Take-Off

## Mission Duration

- Max. 20 mins! Not more!!

<https://www.nasa.gov/image-feature/50-years-ago-apollo-11-launches-into-history>

# What is GraphQL



## “A query language for your API!”

- **GraphQL** is meant to be used for client applications, where network bandwidth and latency are critical
- Has the ability to query an object graph
- Makes it a whole lot simpler and easier to use and manage data fetching on the client's end

## “Frontend First Approach!”

- **GraphQL** fosters a frontend first development approach since it allows to request the required data.

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"  
  }  
}
```



# Why GraphQL for UI5 Applications?

## Pros

- Makes it a whole lot simpler and easier to use and manage data fetching on the client's end
- Makes it easy to consume events on the client side and react on them
- Query across systems
- Adoption of GraphQL for UI5, Vue, React, Angular, Node and Co.
- Single Source of truth

## Cons

- Cache has to be implemented in the client logic
- GraphQL Rate Limiting
- GraphQL Query Complexity

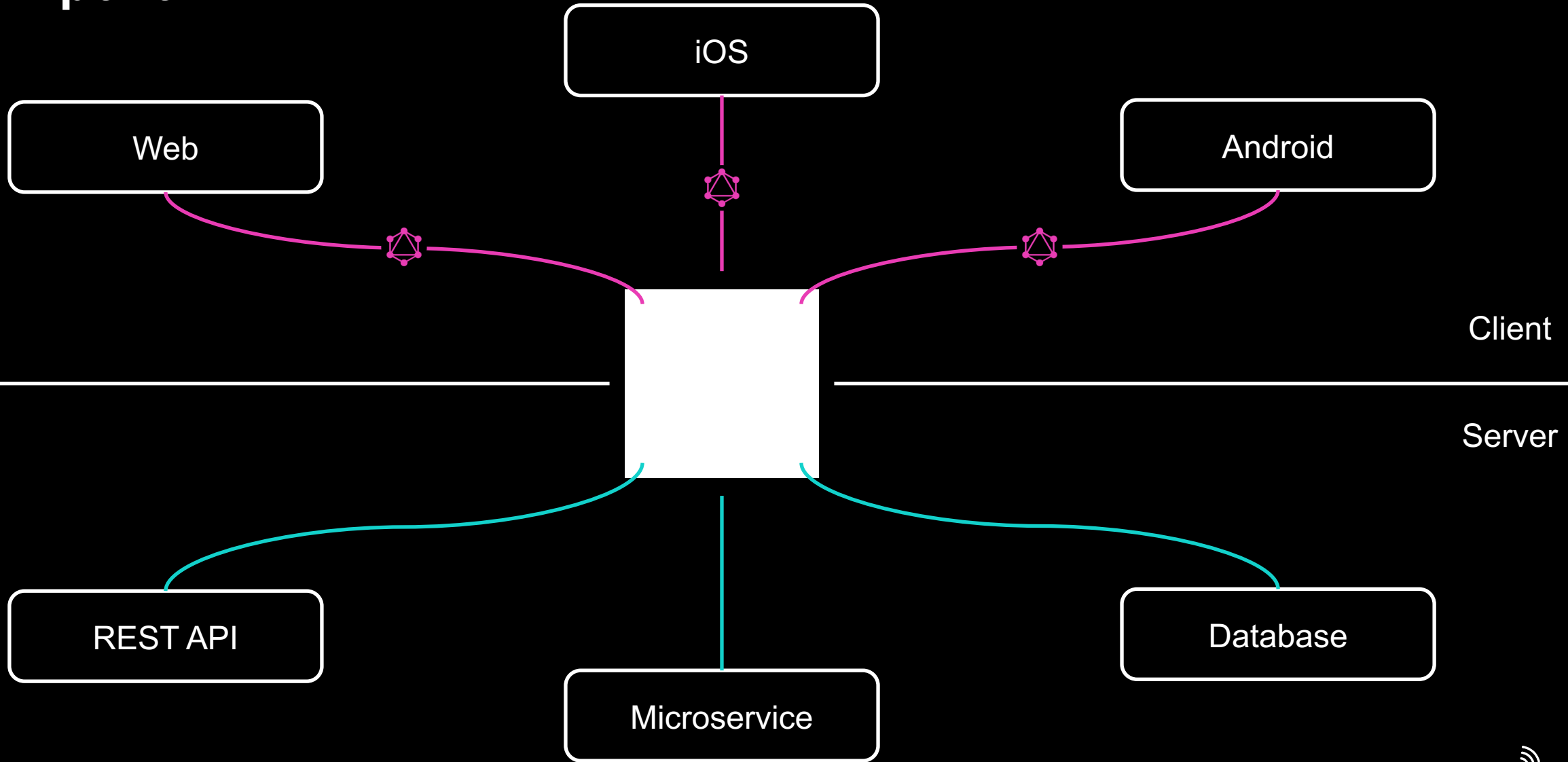




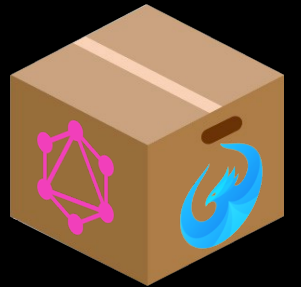
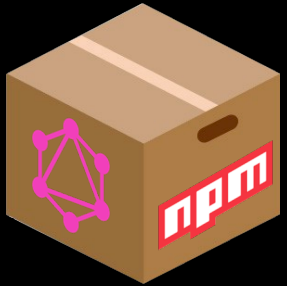
# Why GraphQL for UI5 Applications?

If you do not need **REST** you should consider  
**GraphQL** for your next project

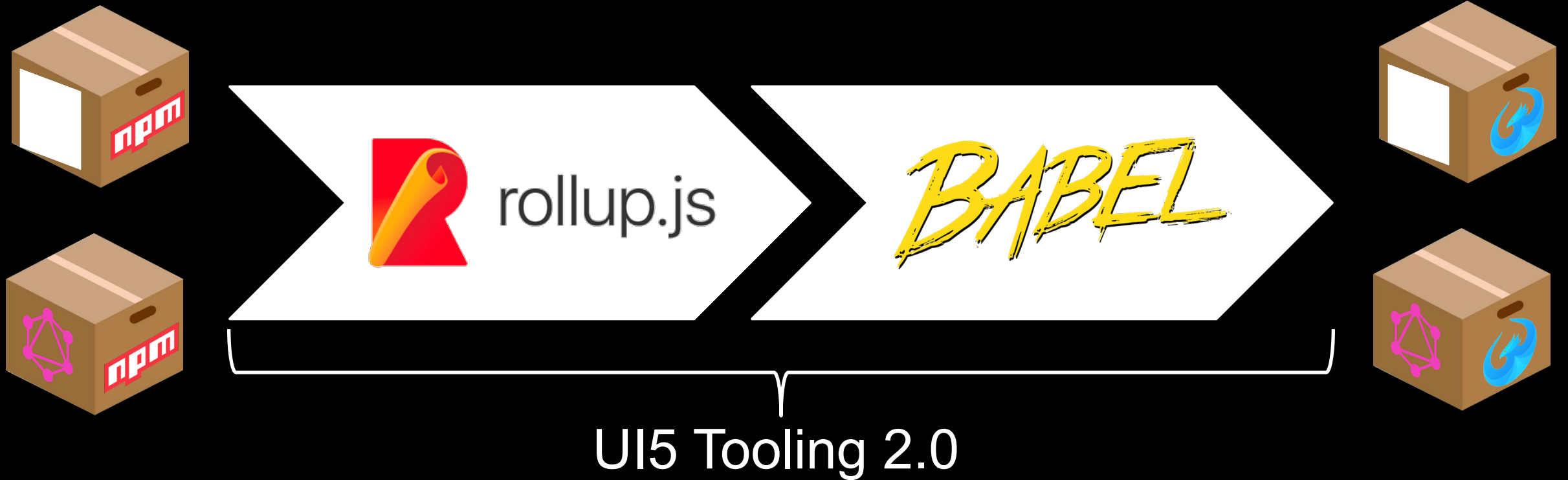
# Why Apollo?



# How to get the Apollo Client into UI5?



# How to get the Apollo Client into UI5?



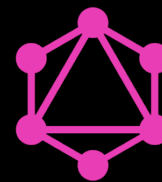


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# Demo



# Mission Accomplished

## Achievement

- UI5 Todo App running on GraphQL using Subscriptions

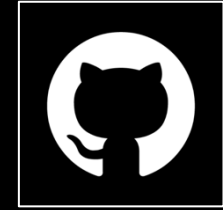
## Learnings

- Wrapping NPM packages for UI5
- Pros and cons of GraphQL
- Usage of GraphQL with UI5
- Working with GraphQL Subscriptions

## Limitations

- Reactive caching is not yet connected to view model

Restored Apollo 11 Moonwalk - Original NASA EVA Mission Video - Walking on the Moon - Youtube



# Thank you.

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