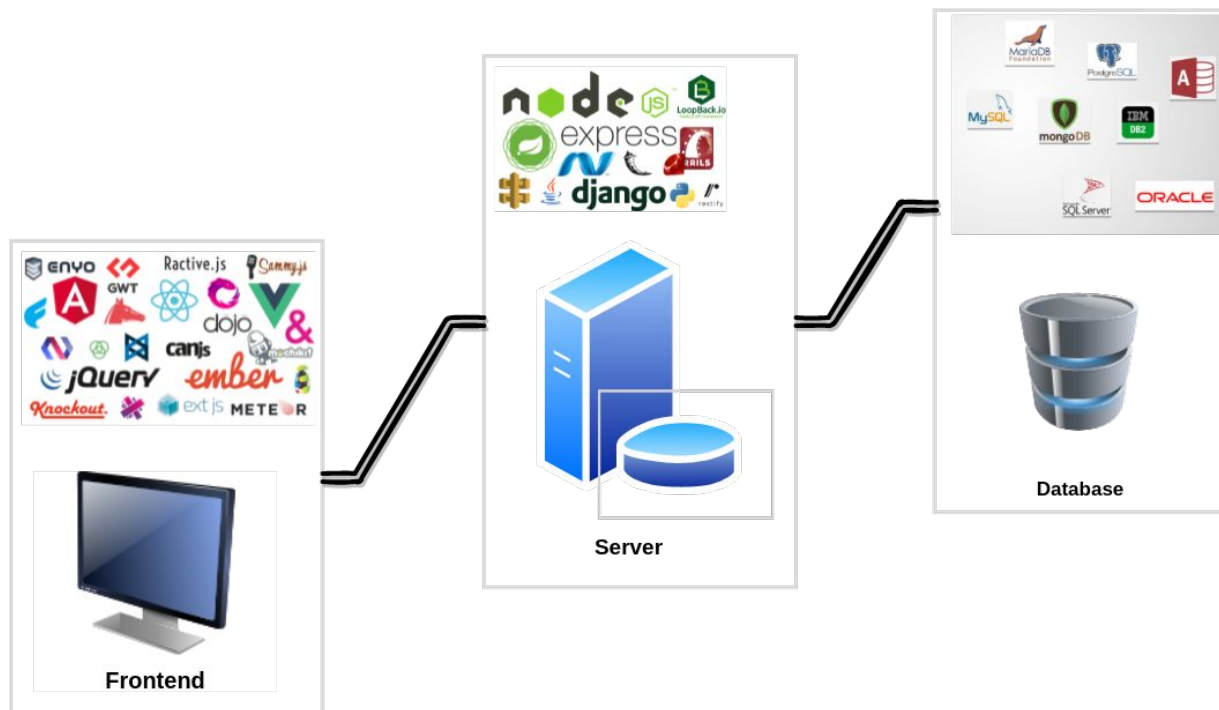


# DAY 4

## APIs and Their Types

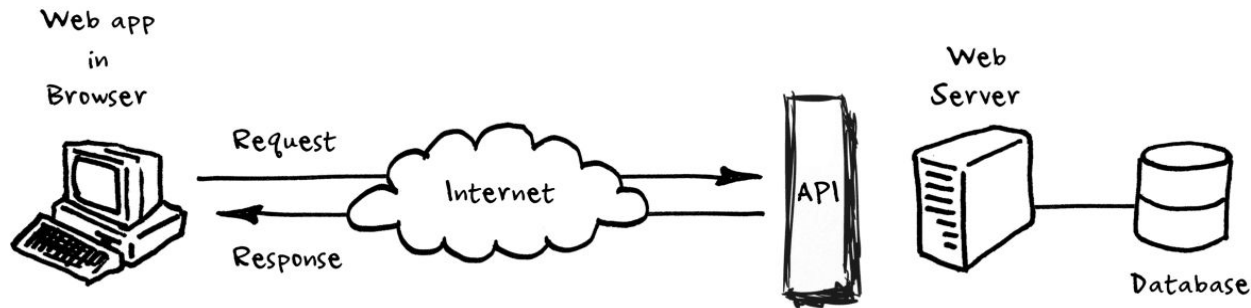
# Full-Stack Communication



# BTW, what's an API?

**Application Programming Interface.**

Software intermediary that allows two applications to talk to each other.



# API Protocols

	RPC	SOAP	REST	GraphQL
<b>Organized in terms of</b>	Local Procedure calling	Enveloped Message Structure	Compliance with six architectural constraints	Schema & type system
<b>Format</b>	JSON, XML, Protobuf, Thrift, FlatBuffers	<b>XML only</b>	XML, JSON, HTML, plain text	JSON
<b>Learning Curve</b>	<b>Easy</b>	<b>Difficult</b>	<b>Easy</b>	<b>Medium</b>
<b>Community</b>	<b>Large</b>	<b>Small</b>	<b>Large</b>	<b>Growing</b>
<b>Use Cases</b>	<ul style="list-style-type: none"> <li>• Command and Action-oriented APIs</li> <li>• Internal high Performance Communication in massive micro-services systems</li> </ul>	<ul style="list-style-type: none"> <li>• Payment gateways</li> <li>• Identity Management CRM solutions</li> <li>• Legacy system support</li> </ul>	<ul style="list-style-type: none"> <li>• Public APIs</li> <li>• Simple resource-driven apps</li> </ul>	<ul style="list-style-type: none"> <li>• Mobile APIs</li> <li>• Complex systems microservices</li> </ul>



# REST API

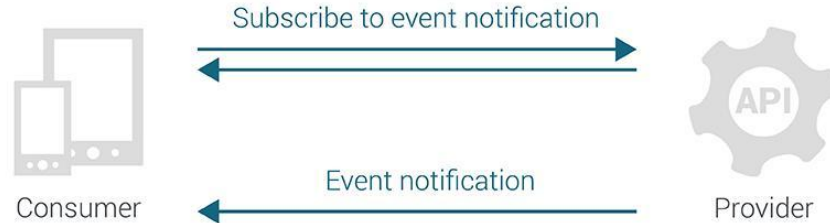


# REST vs Event Driven

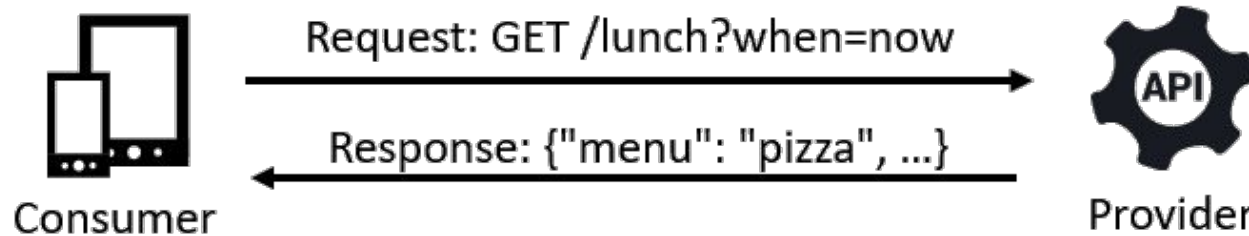
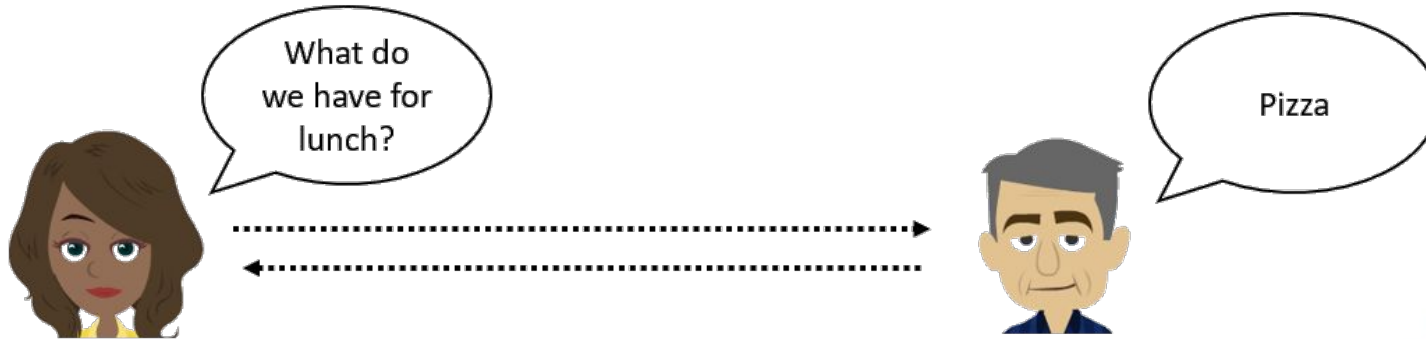
## REST APIs



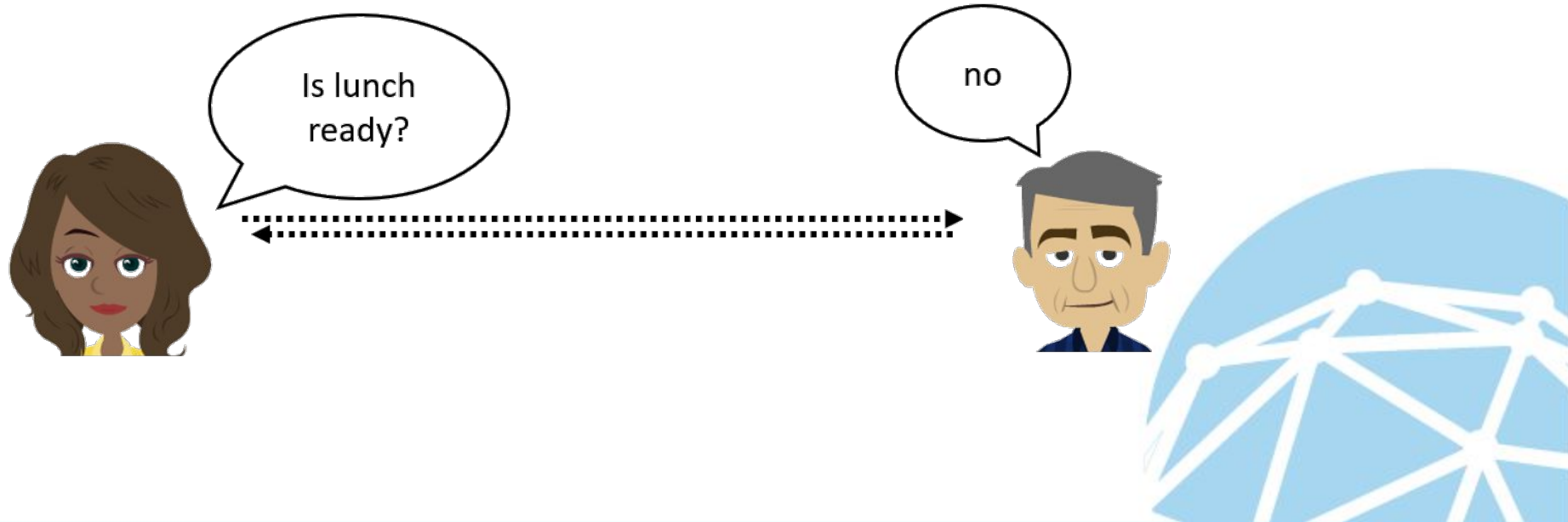
## Event-Driven APIs



# What do we have for lunch?

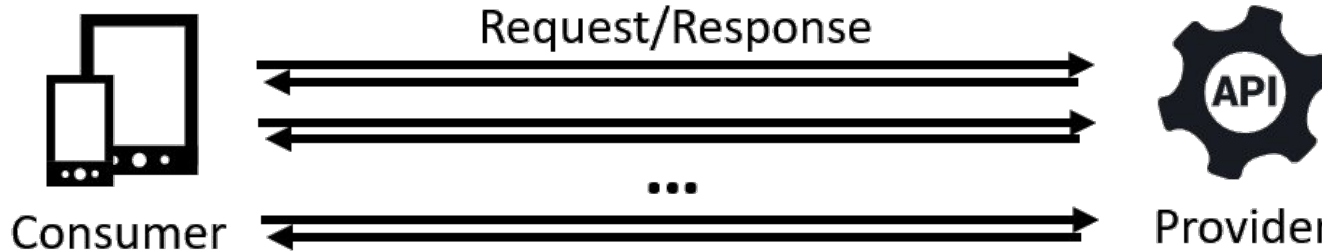
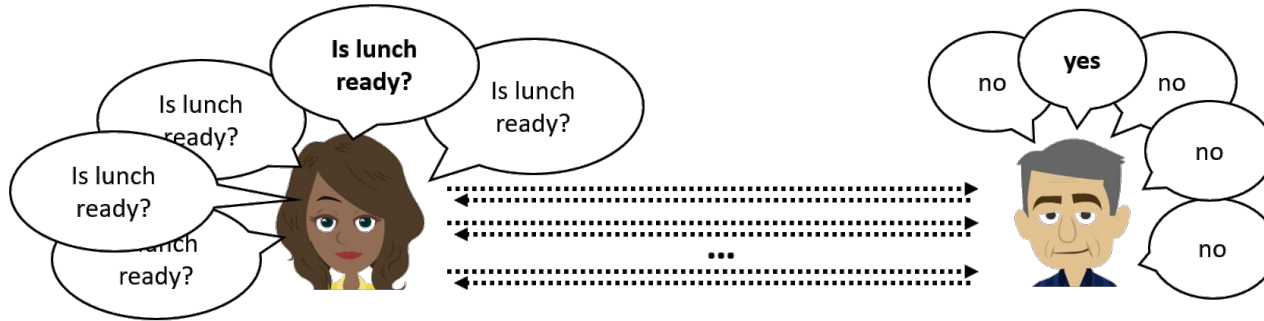


# Is lunch ready?

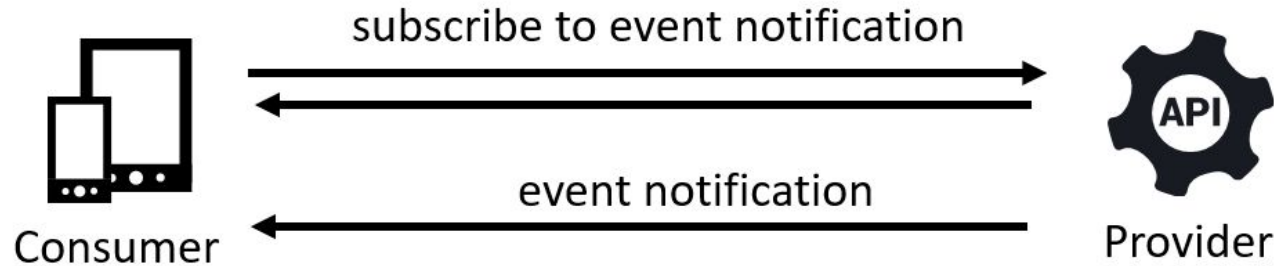
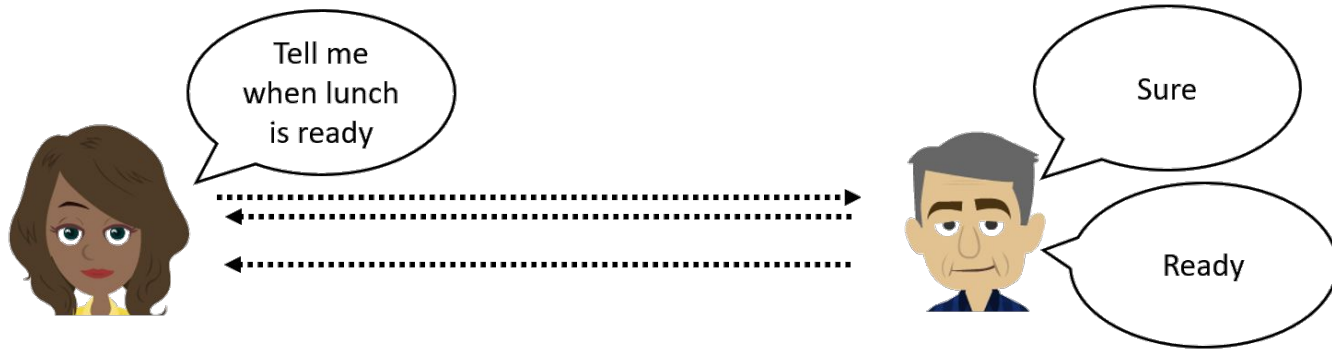




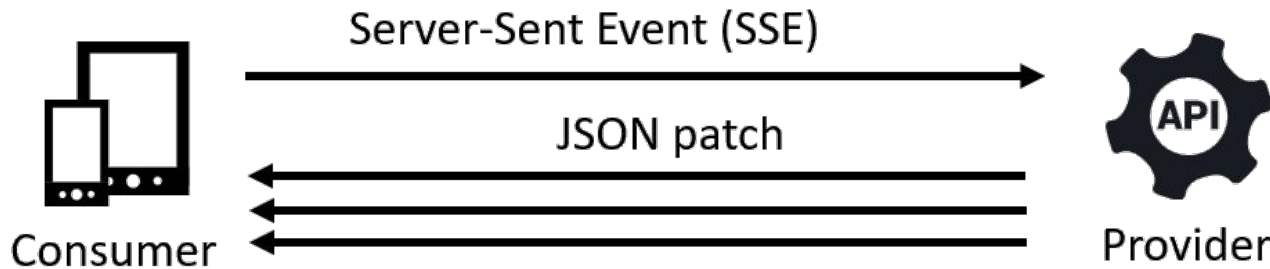
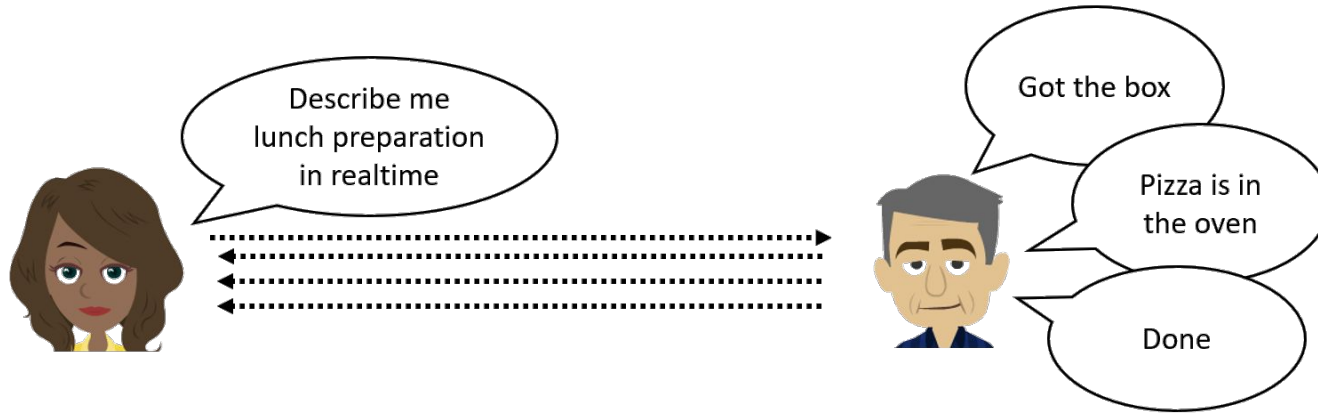
# Oops...



# This is nice.



# Visible Happiness



Thank You