

Building HTTP Servers



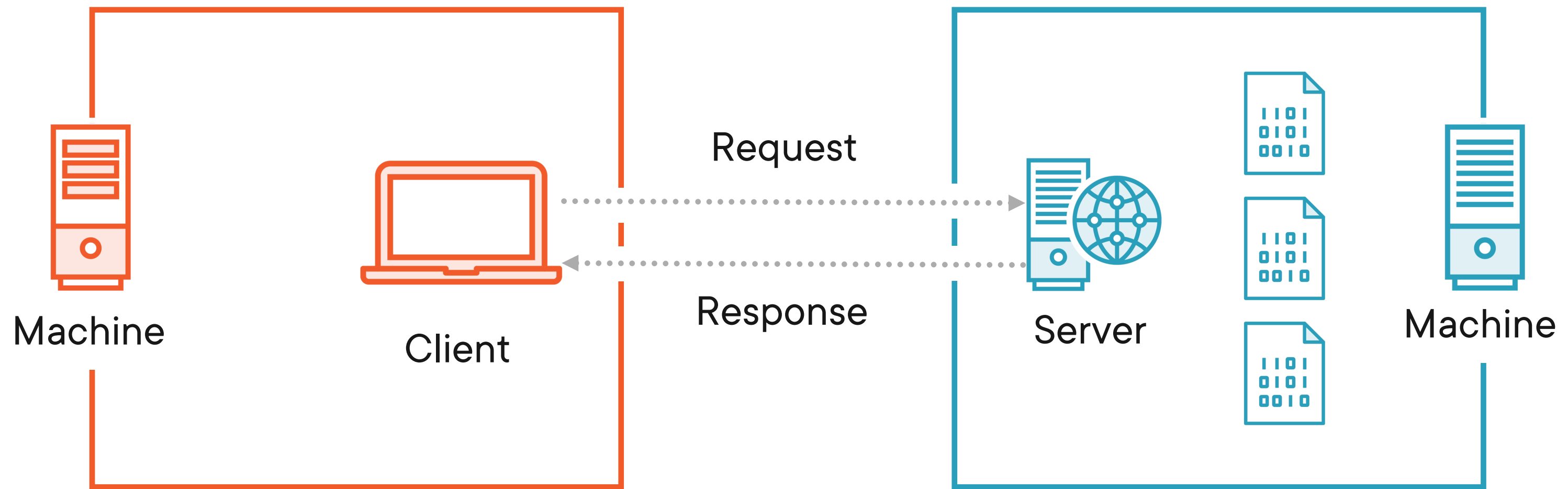
Bogdan Sucaciu

Tech Lead

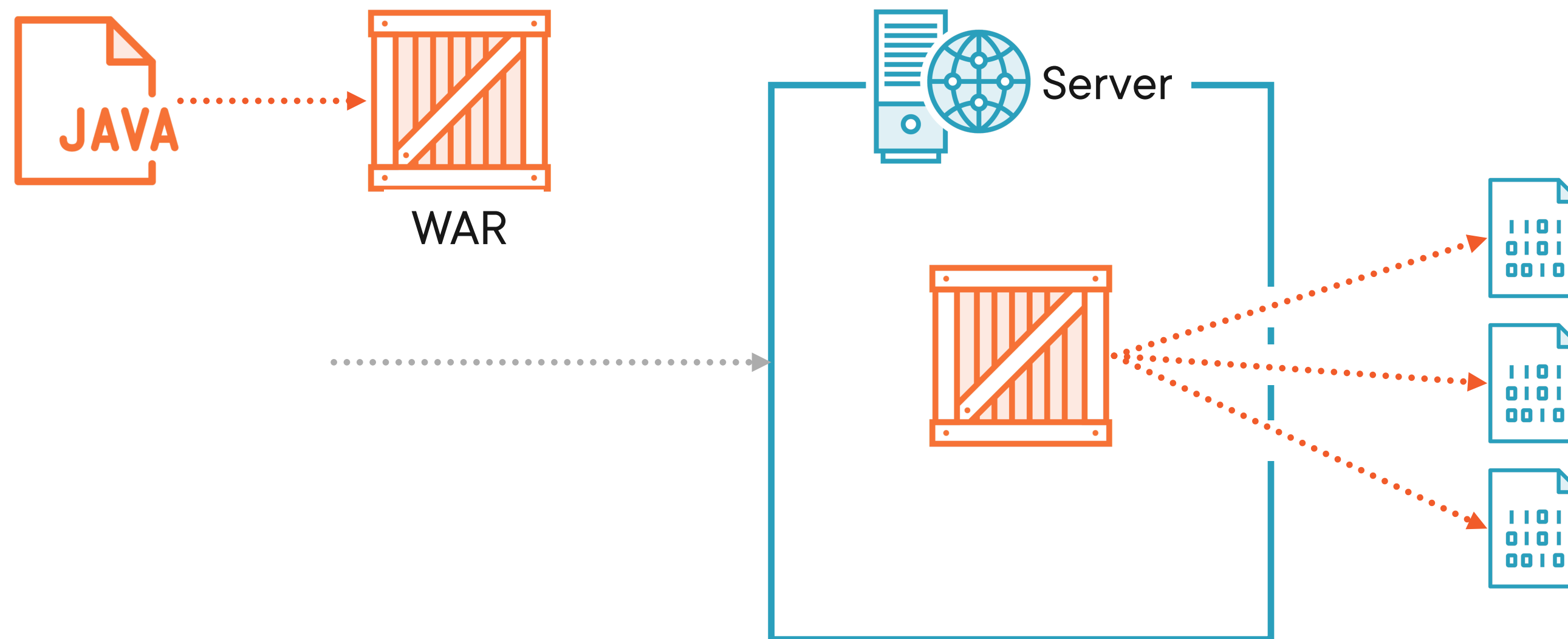
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Client-server Communication



Web Server



Web Servers

Apache Tomcat

Jetty

Apache TomEE

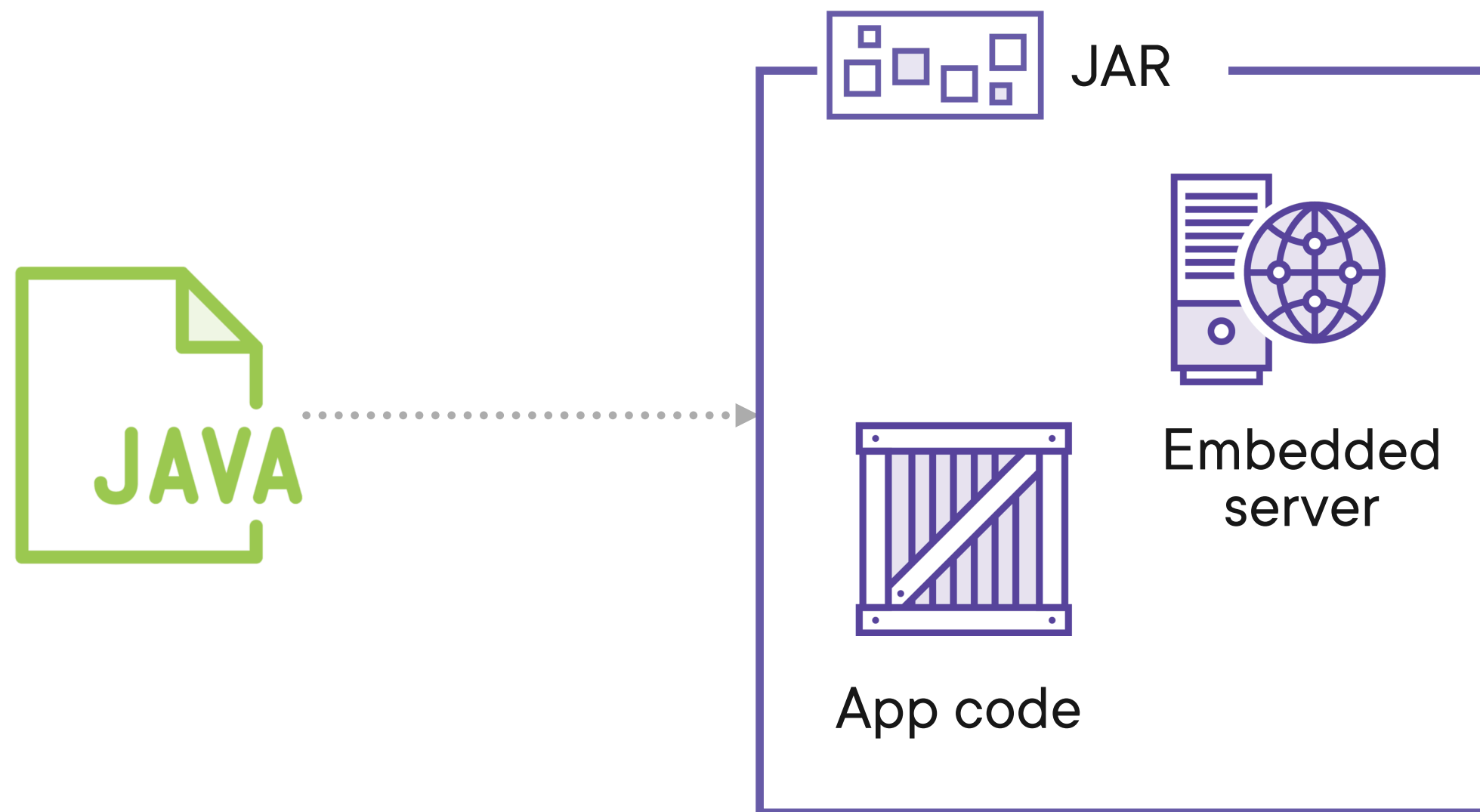
WebSphere

Glassfish

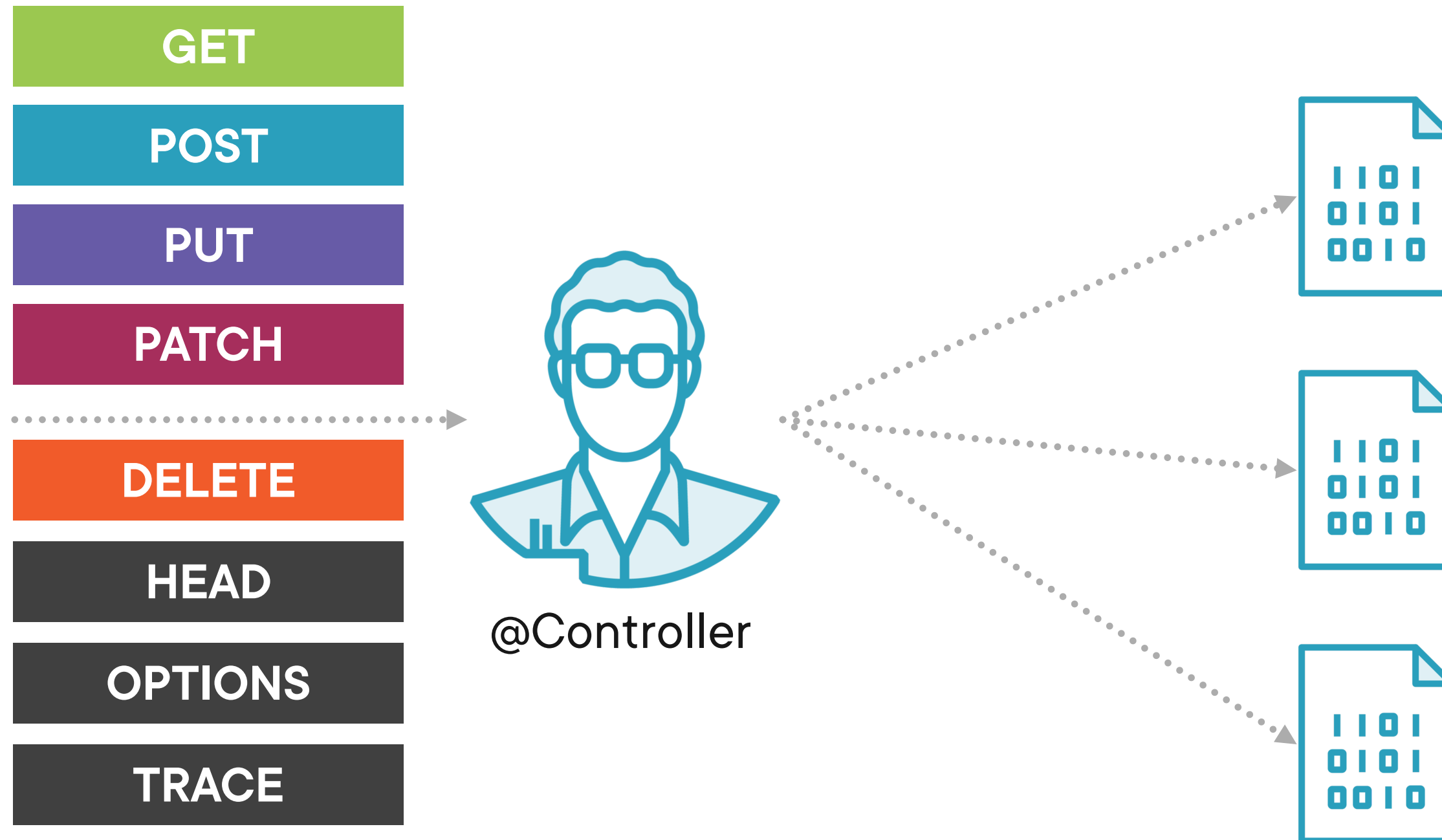
WildFly



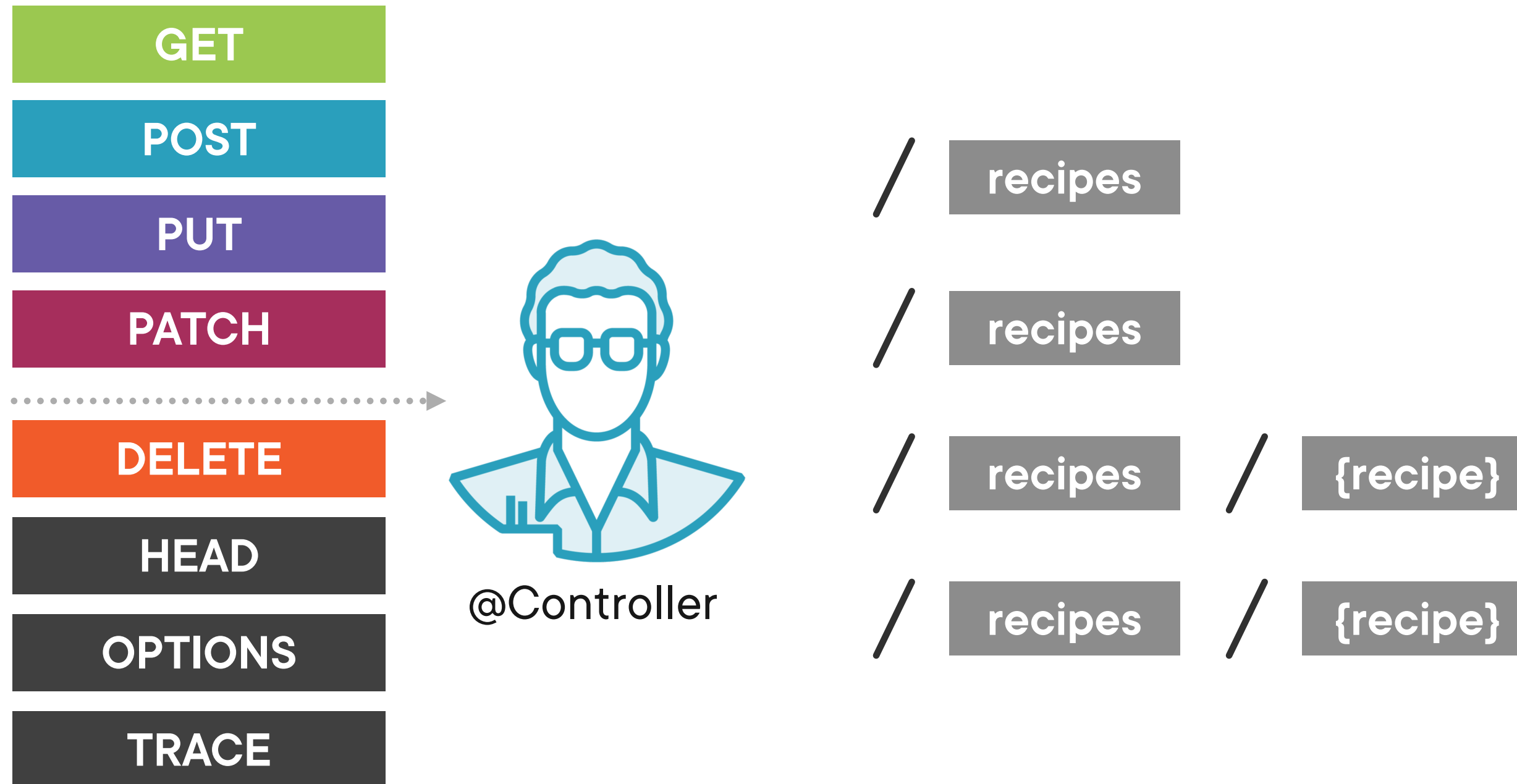
Embedded Server



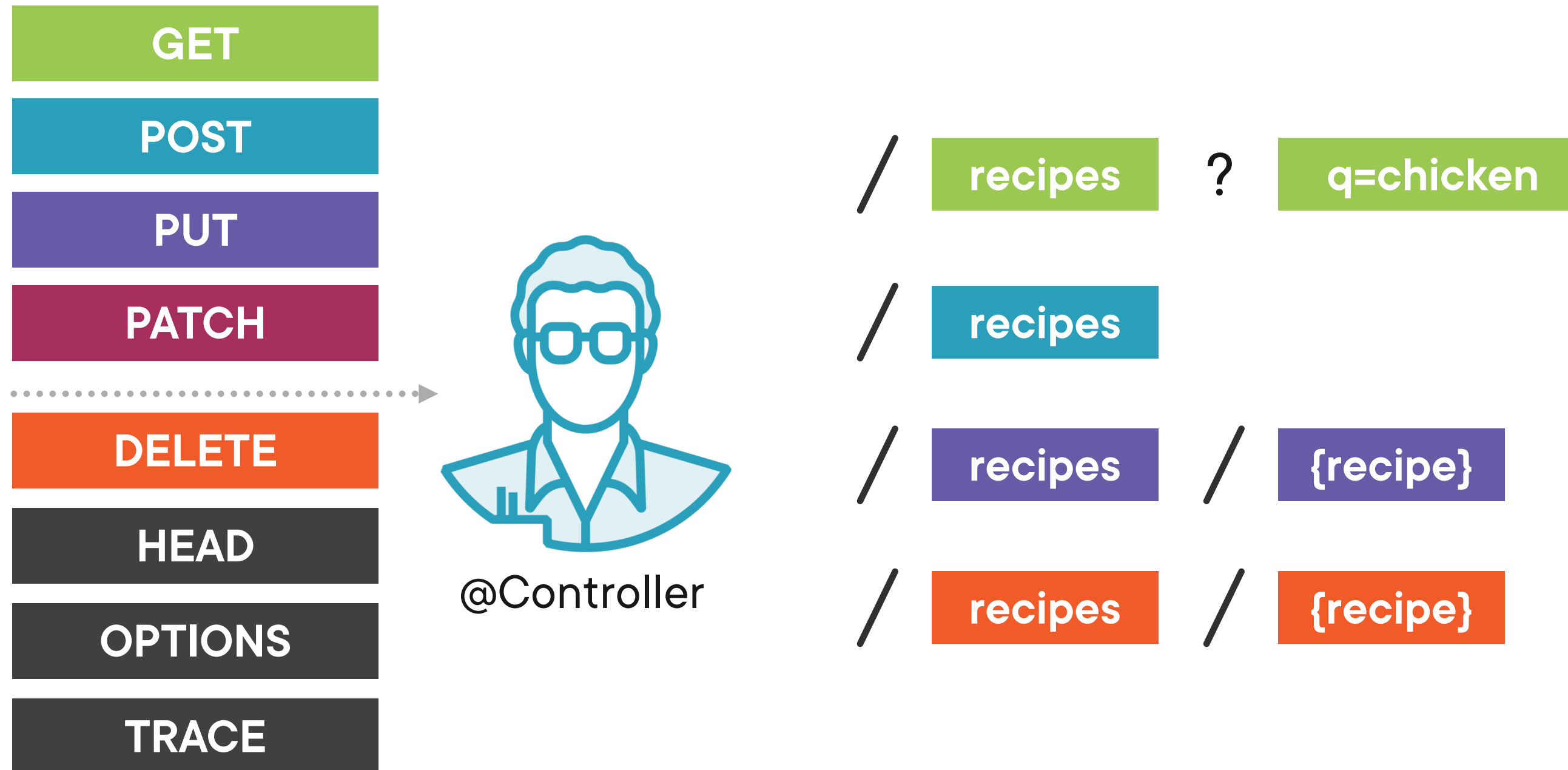
HTTP



HTTP Paths



HTTP Endpoints



Demo



Set up Micronaut HTTP server

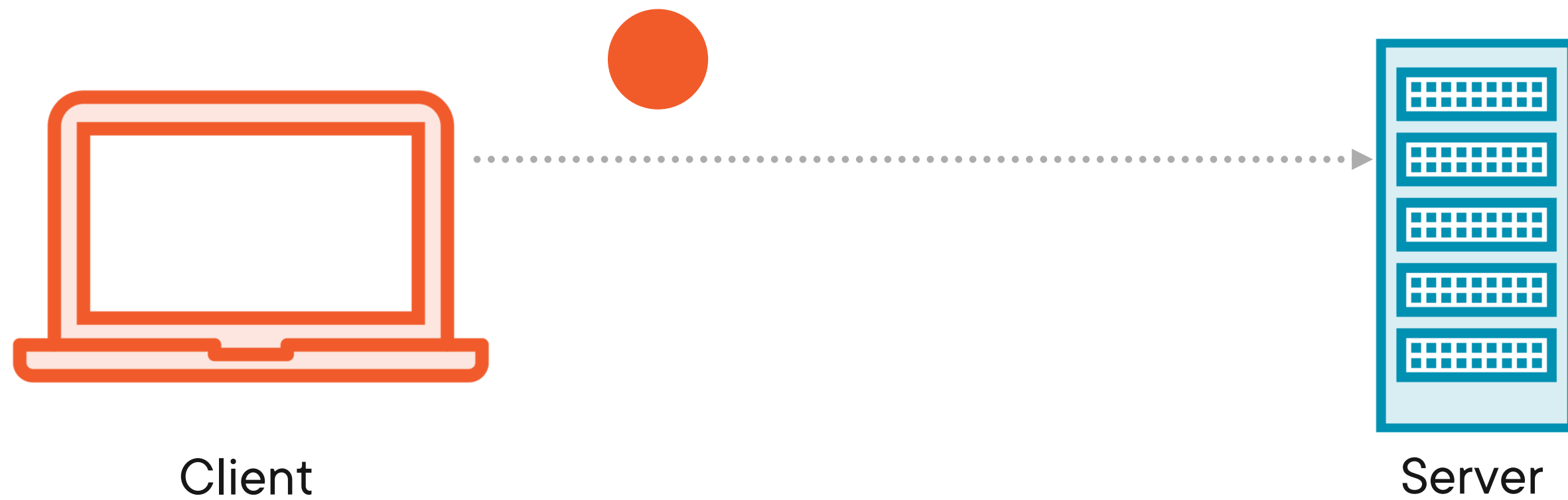
Create a controller



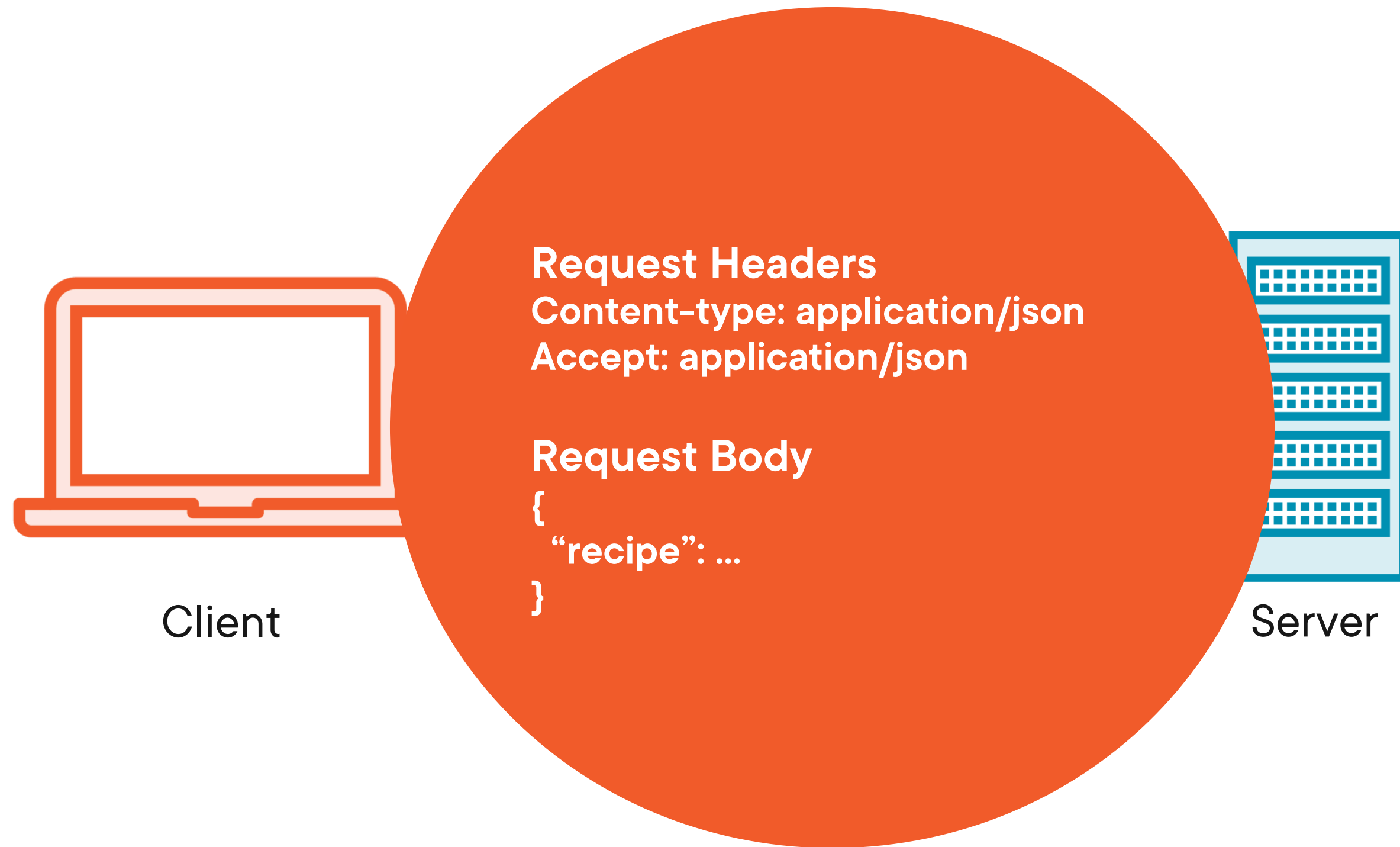
HTTP Request and Response



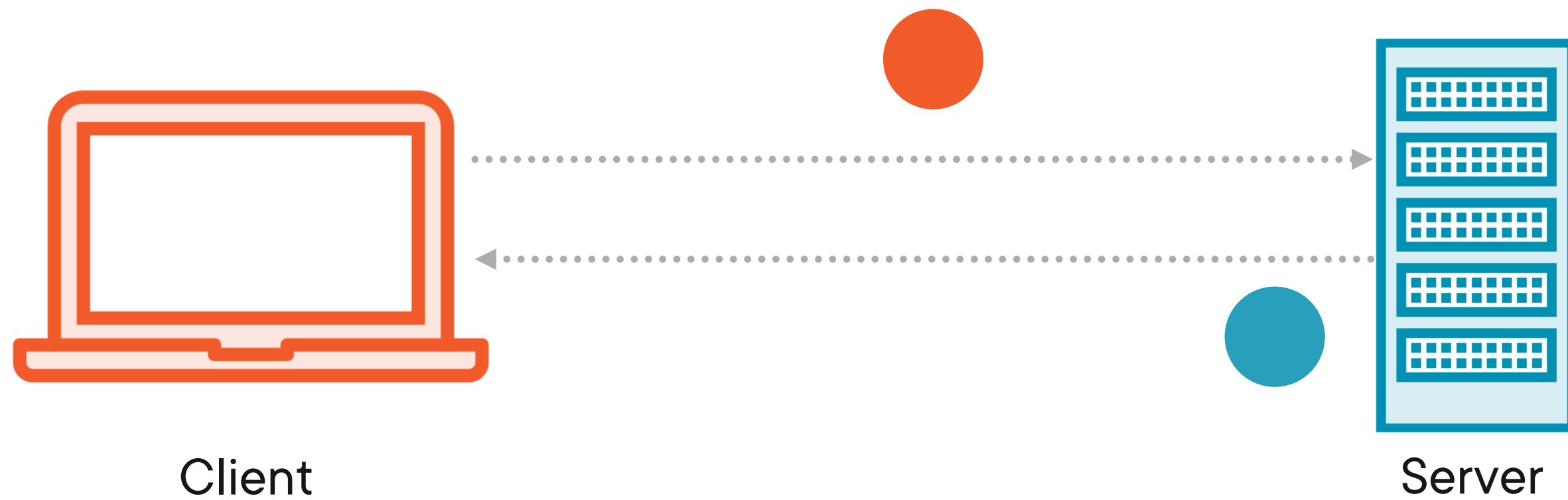
HTTP Request



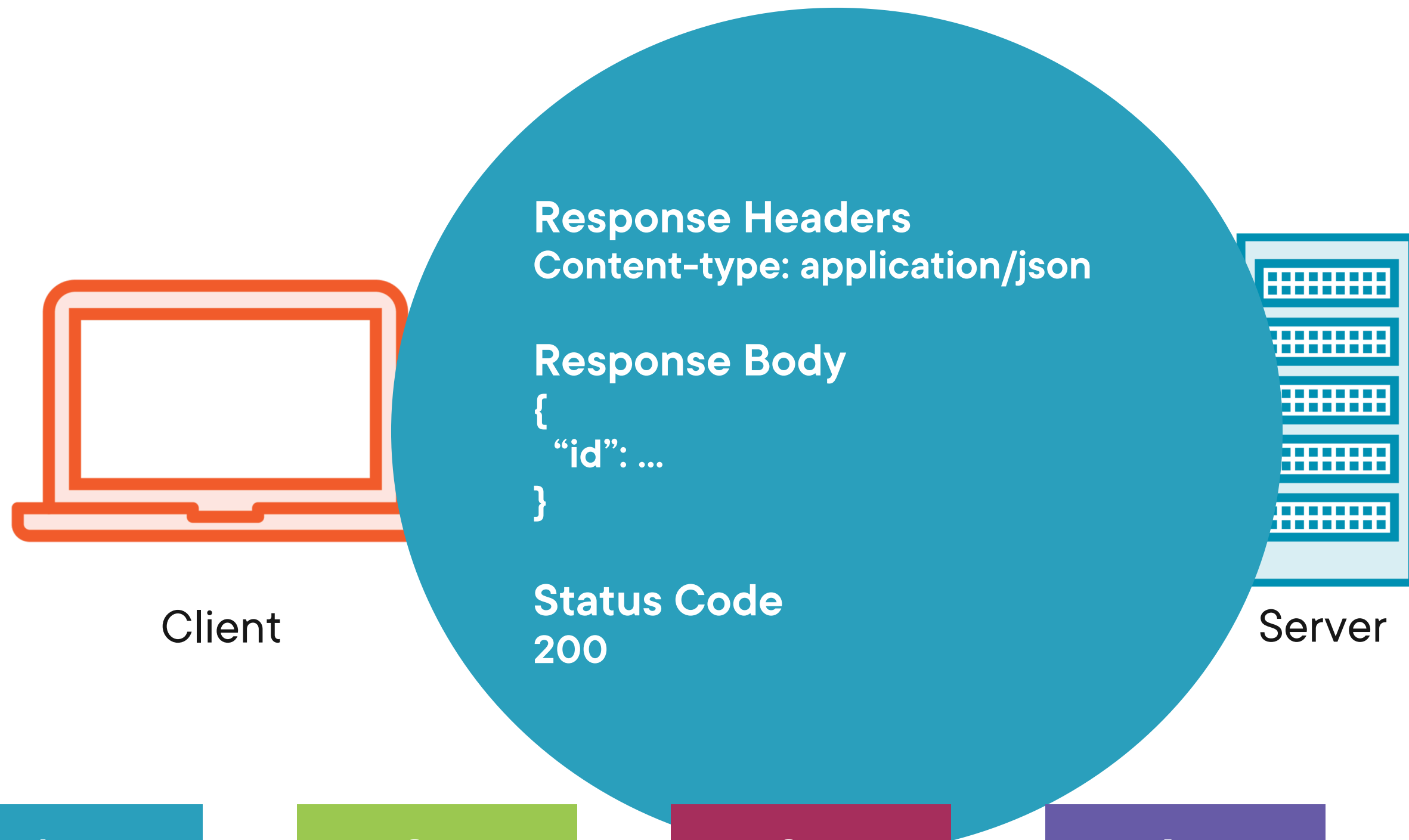
HTTP Request



HTTP Response



HTTP Response



1xx

2xx

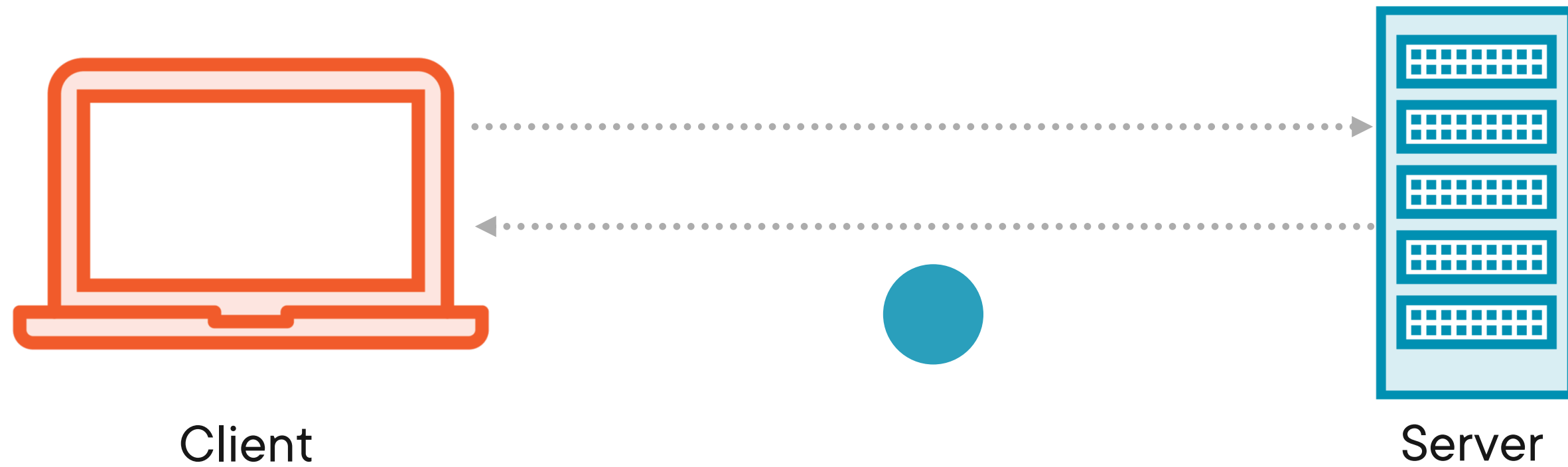
3xx

4xx

5xx



HTTP Response



Demo



Add request body

Add response body

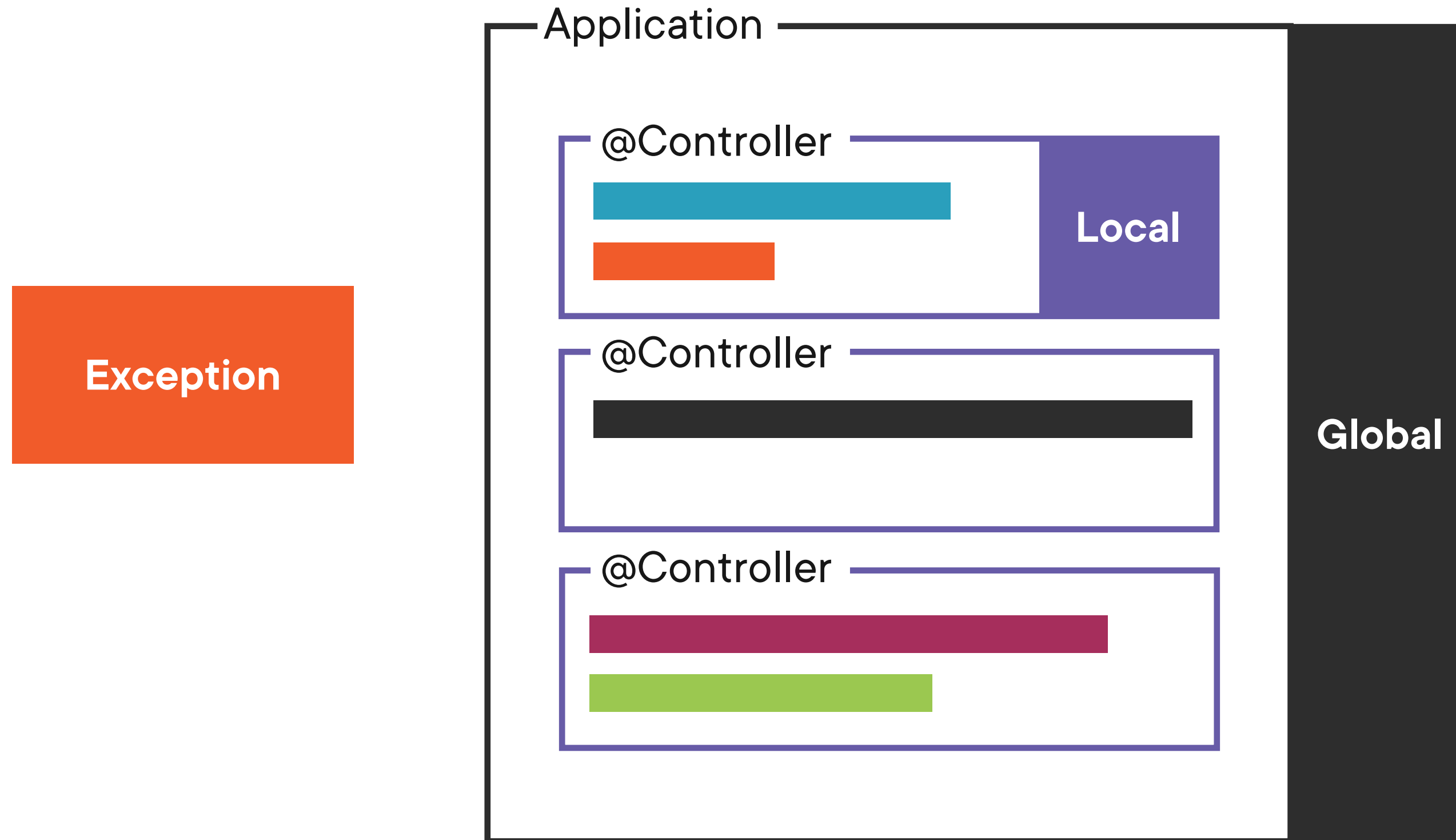
Explore headers



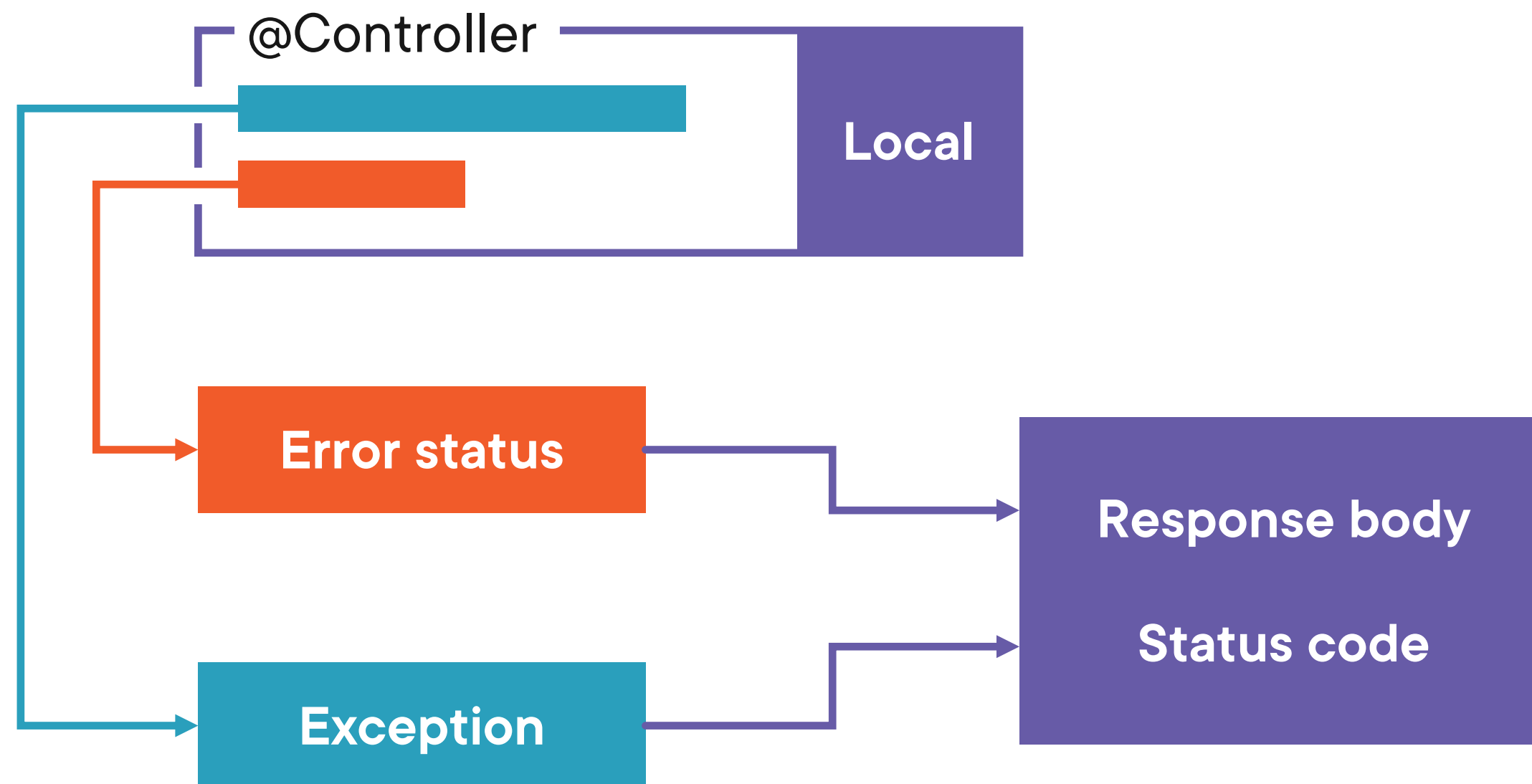
Error Handling



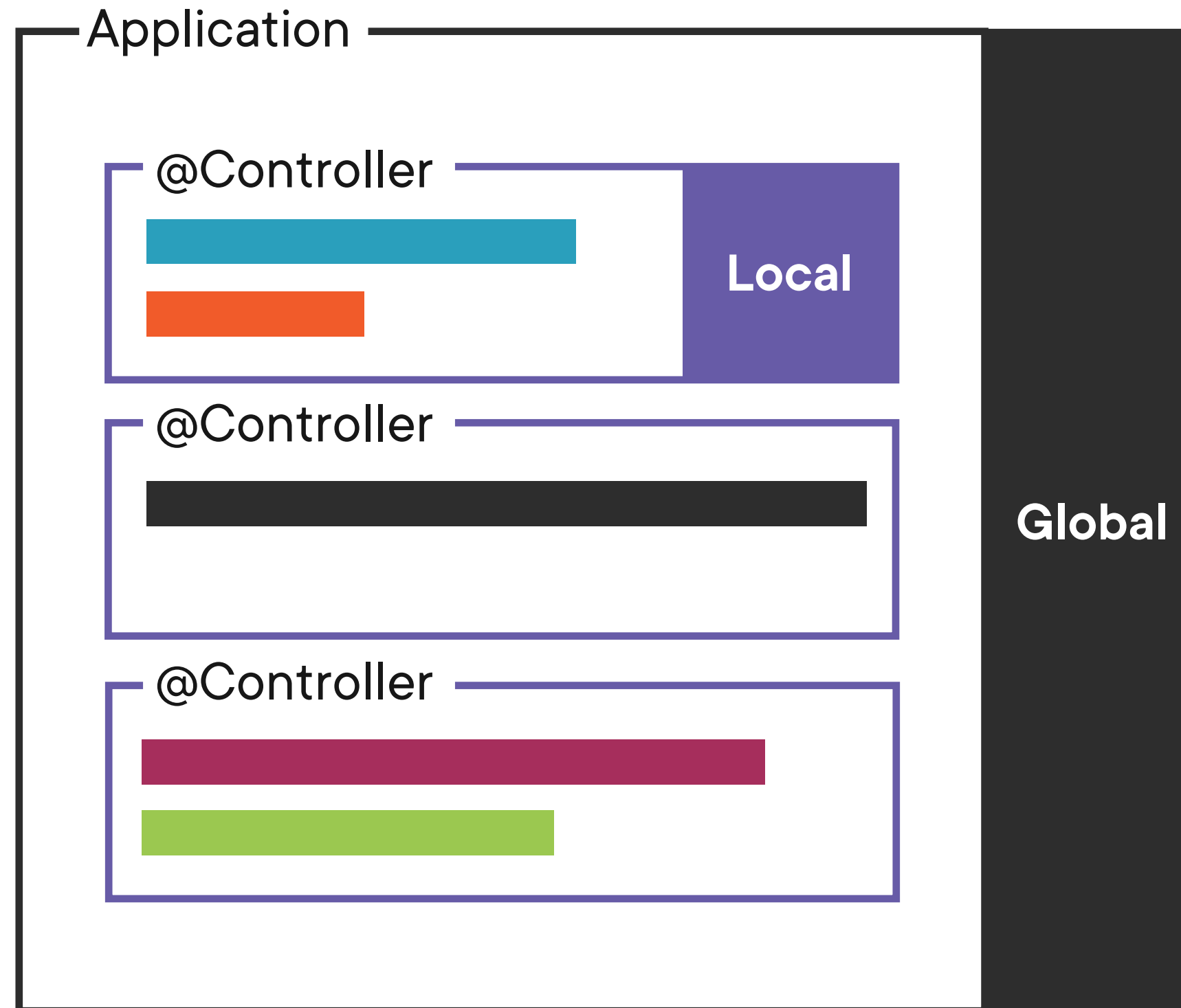
Error Handling



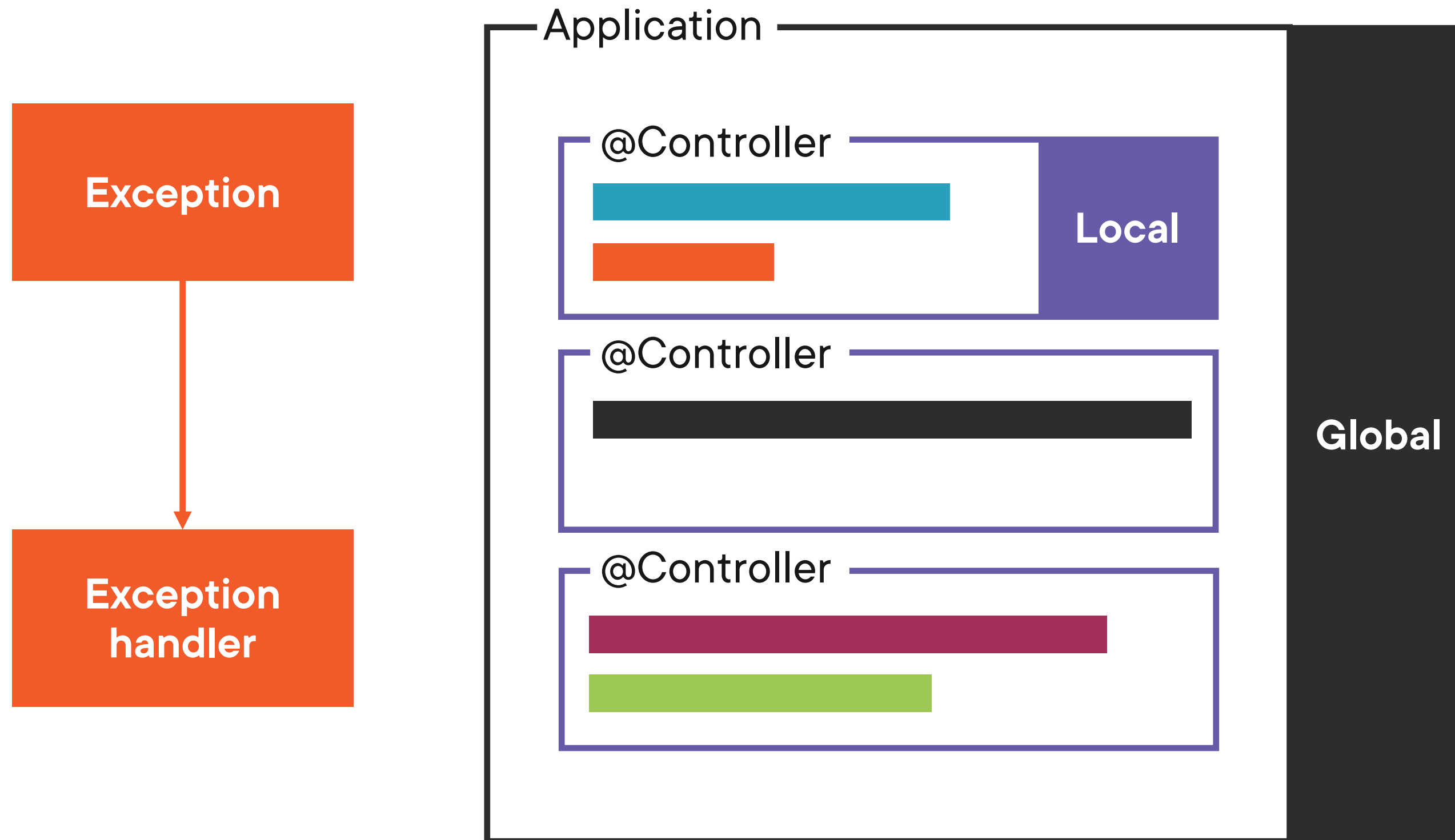
Local Error Handling



Global Error Handling



Exception Handlers



Demo



Local error handling

Global error handling

Exception handler



API Versioning



API Versioning

@Version("1")

@Get("/sensors/status")



Request body



Response body



@Version("2")

@Get("/sensors/status")



Demo



API versioning



Management Endpoints



Built-in Endpoints

Endpoint

URI

Beans

/beans

Health

/health

Info

/info

Loggers

/loggers

Metrics

/metrics

Refresh

/refresh

Endpoint

URI

Routes

/routes

Environment

/env

ThreadDump

/threaddump

Caches

/caches

ServerStop

/stop



Demo



Explore management endpoints



Up Next:
Using HTTP Clients

