

DDD 101: STRATEGIC DESIGN

Domain-Driven Design and Event-Driven Microservices

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AGENDA

- What is Strategic Design?
- Ubiquitous Language and Bounded Contexts
- Subdomains
- Bounded Contexts vs. Subdomains
- Context Mapping
- Context Mapping vs. Technical Architecture

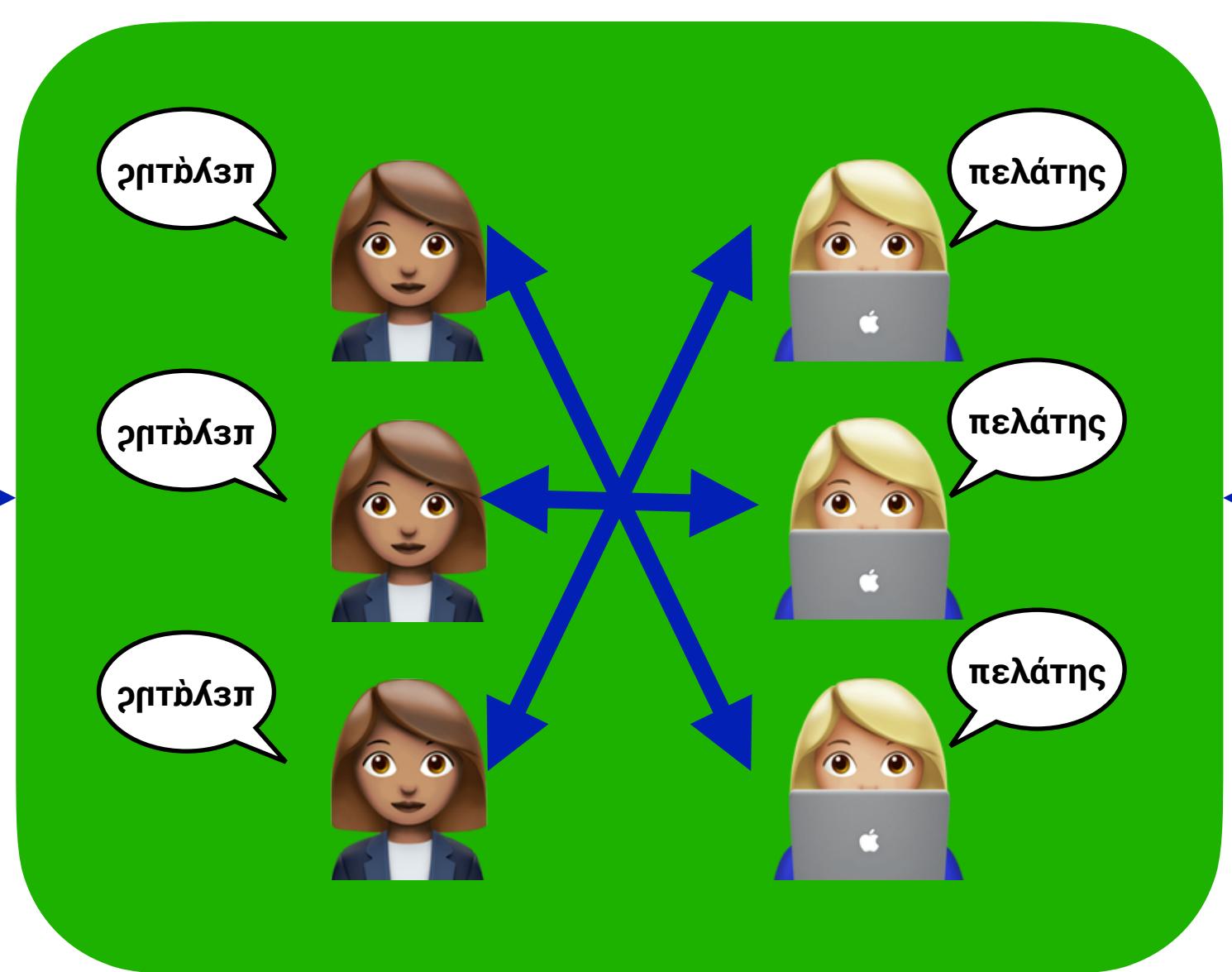
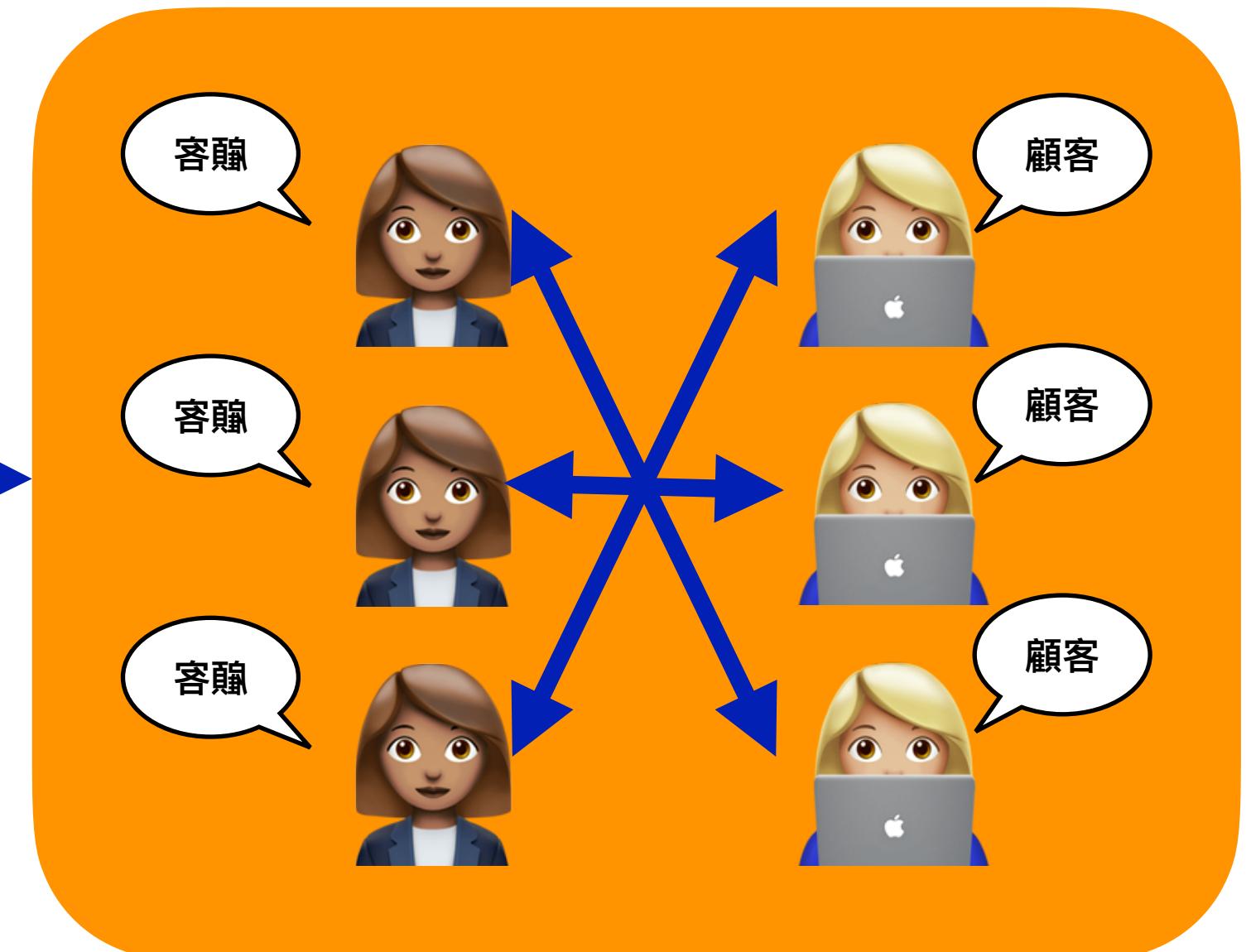
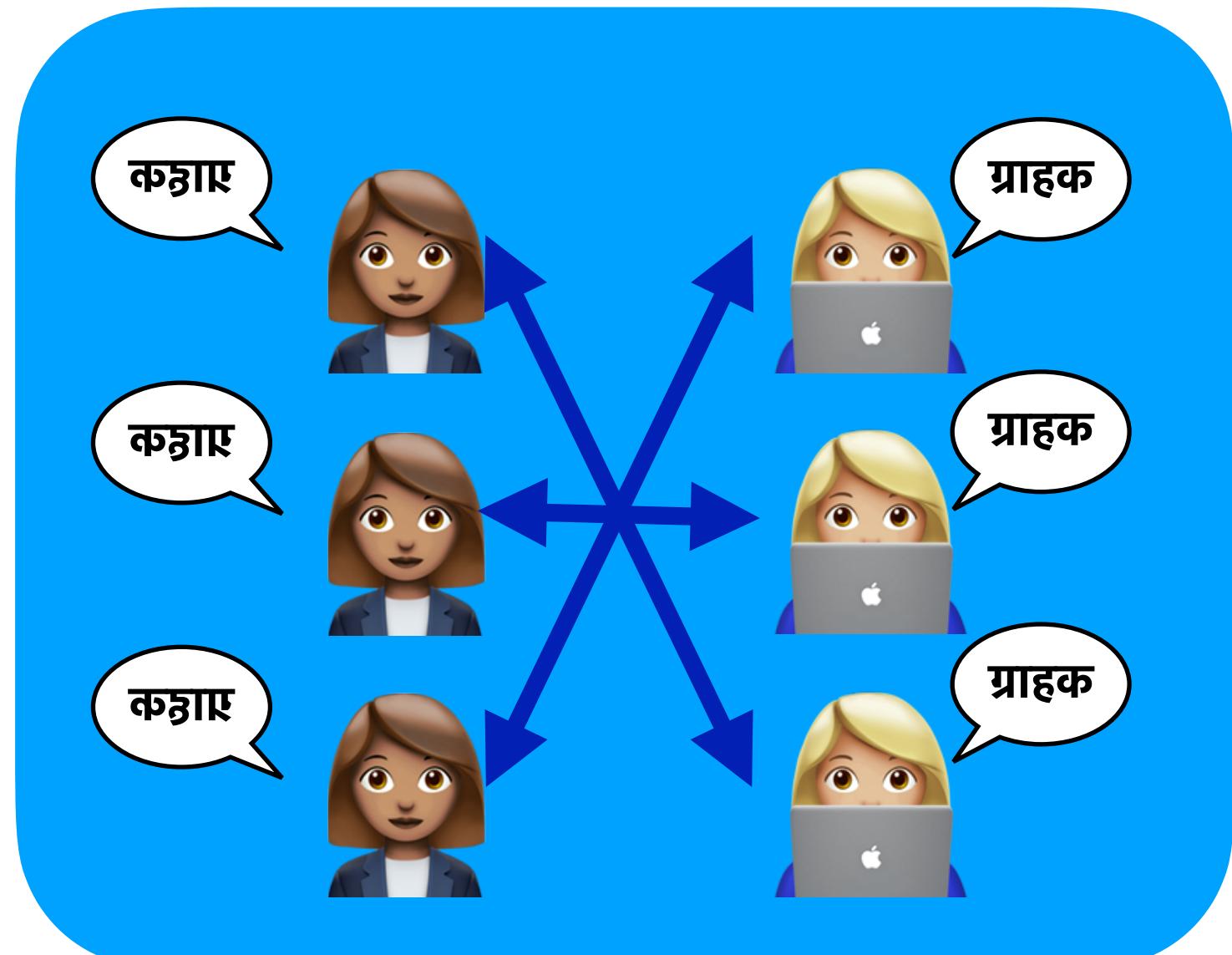


STRATEGIC DESIGN - THE VIEW FROM 35,000 FEET

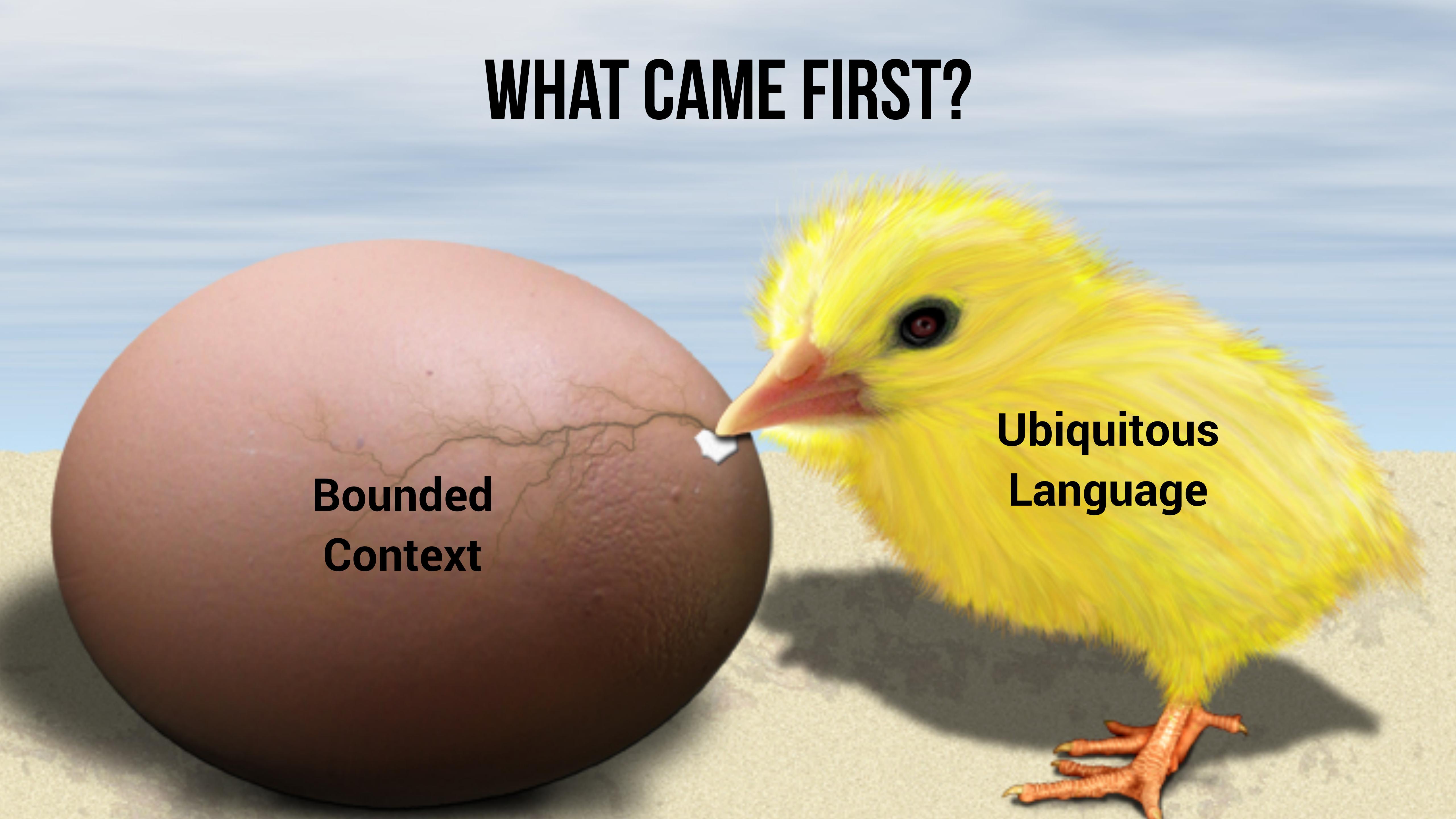
A close-up view of a vibrant patchwork quilt. The quilt features a variety of patterns, including orange and white chevrons, blue and white chevrons, blue stripes, and a dark fabric with orange and blue teardrop shapes. Several panels contain handwritten text: one panel has "dream big little one" with three red asterisks; another panel has "24 July 2014"; and a third panel at the bottom left has "Aunty Kas" next to a red heart.

FINDING THE SEAMS

INTEGRATING THE PIECES



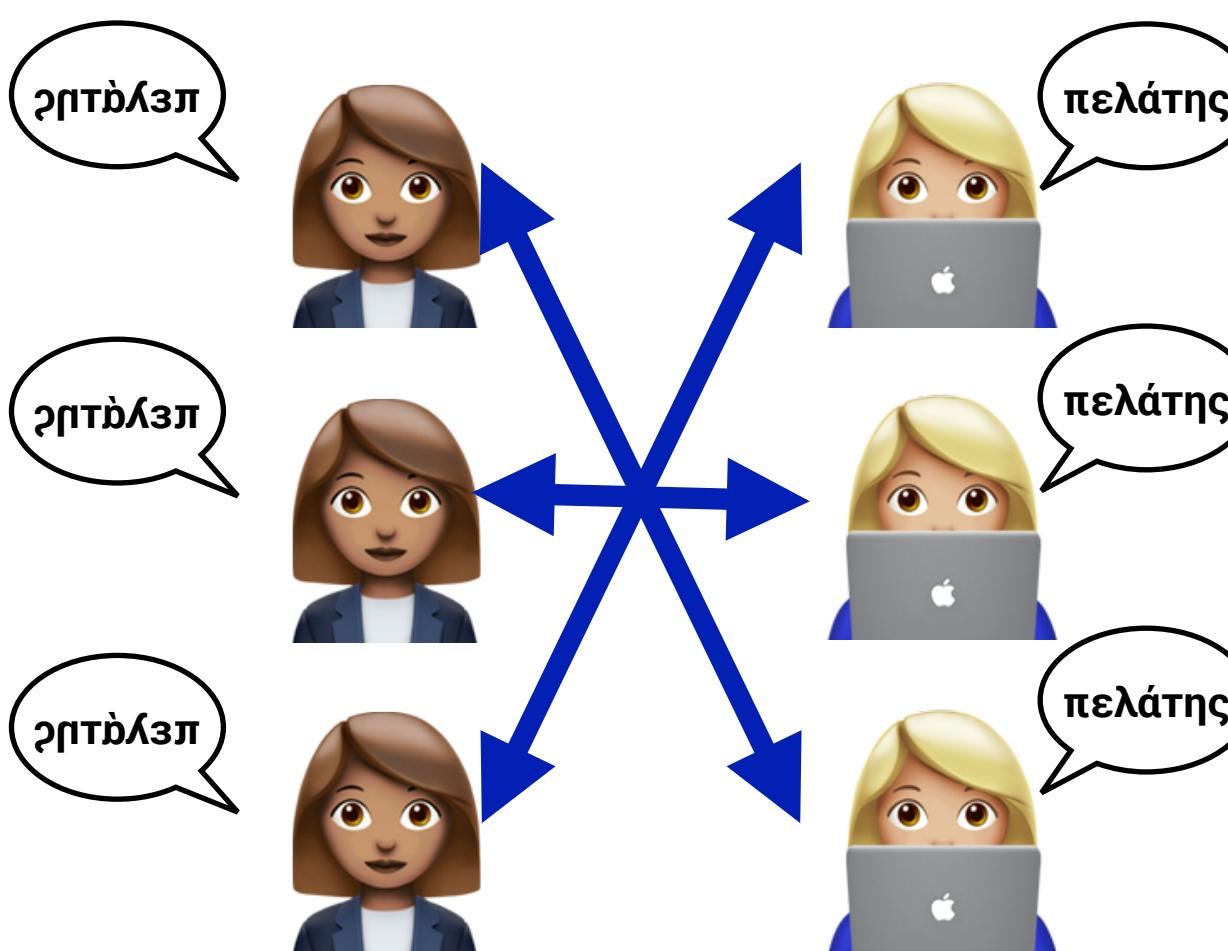
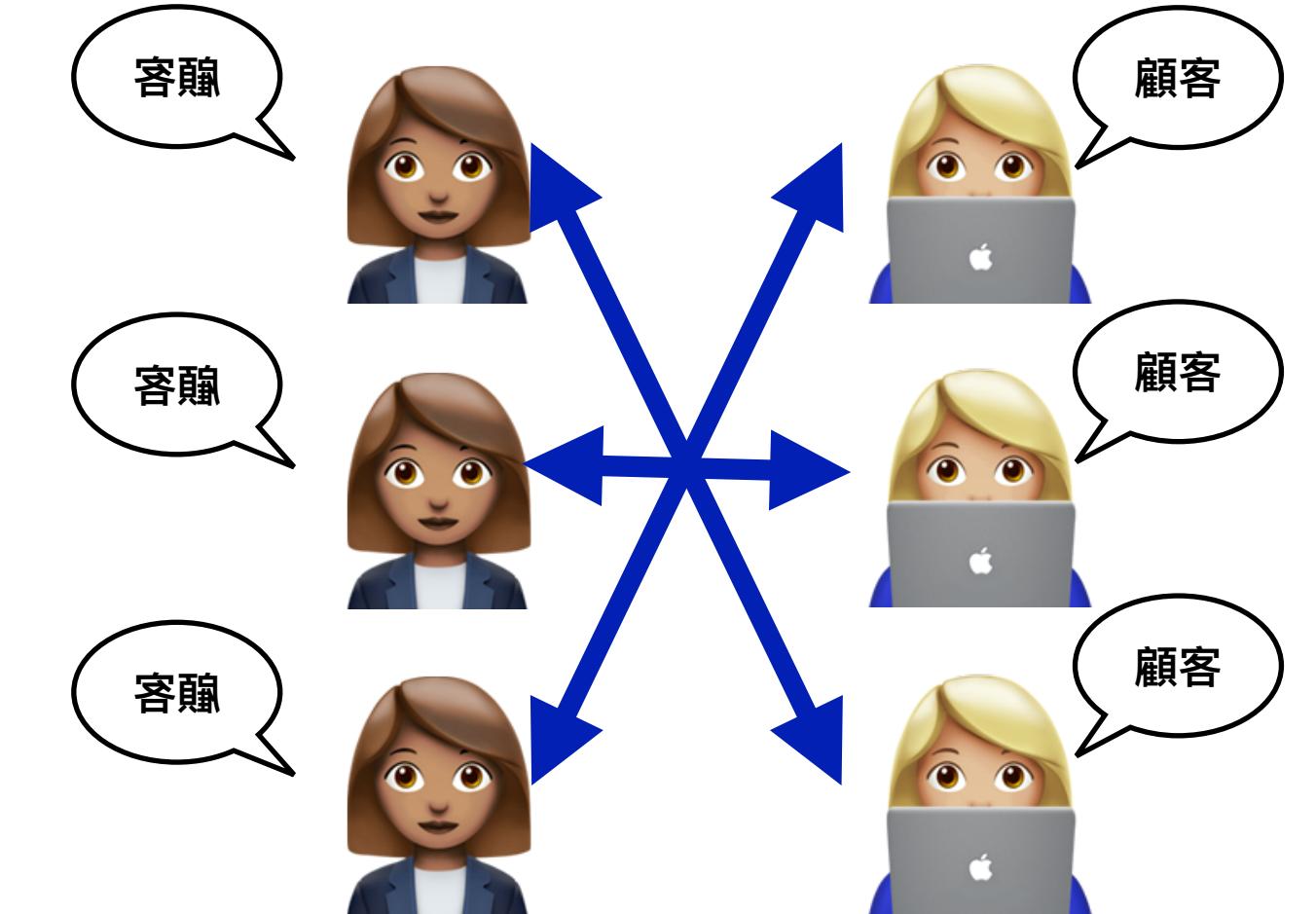
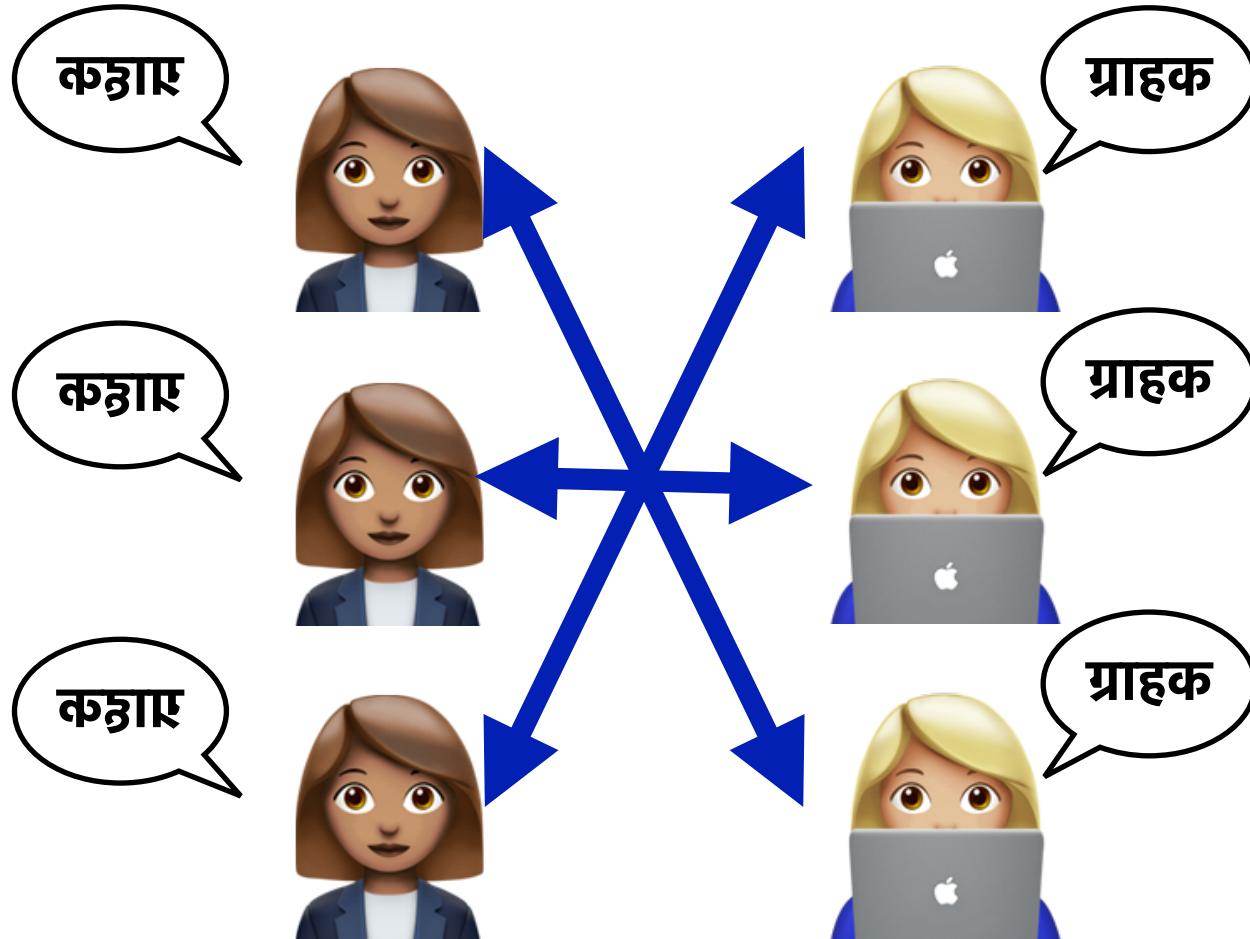
WHAT CAME FIRST?



**Bounded
Context**

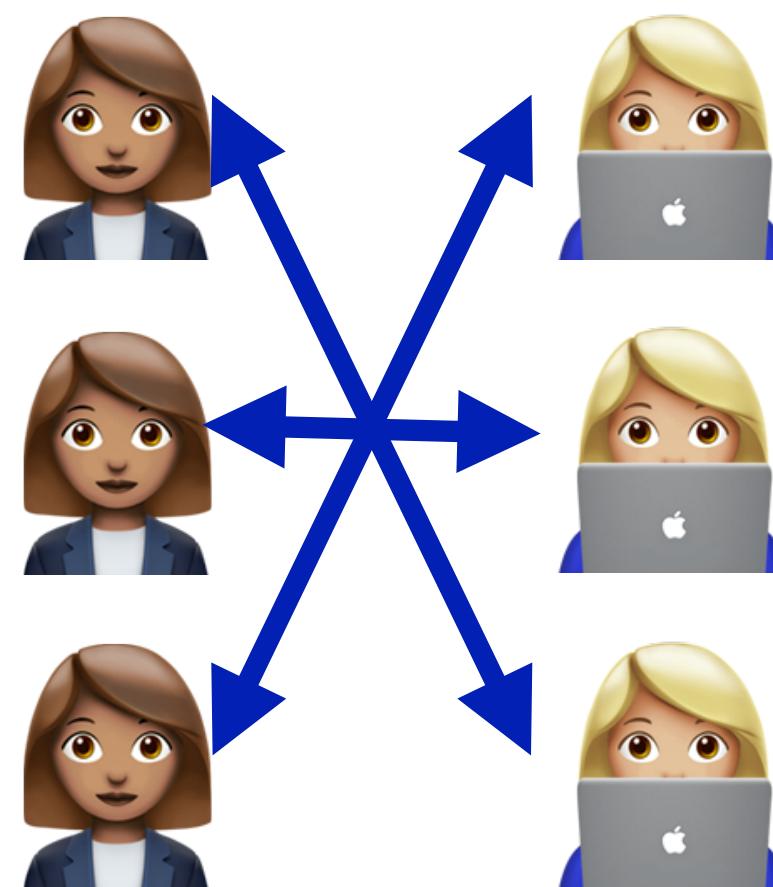
**Ubiquitous
Language**

GLOBAL UBIQUITOUS LANGUAGE?

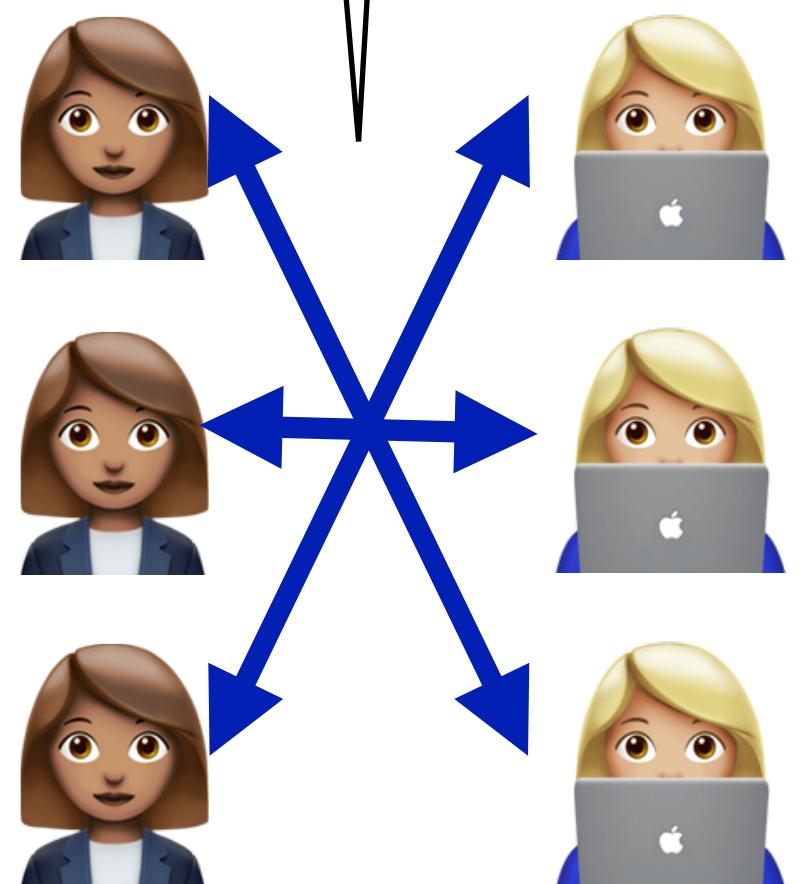


ESSENTIAL DIFFERENCES

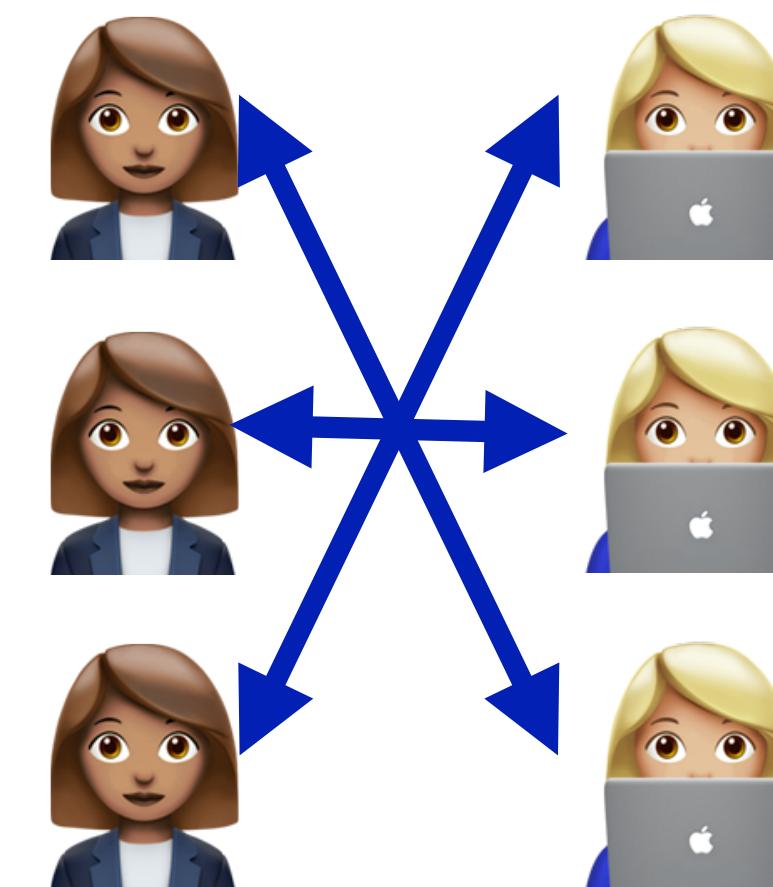
An Order is something for which we process Payments!



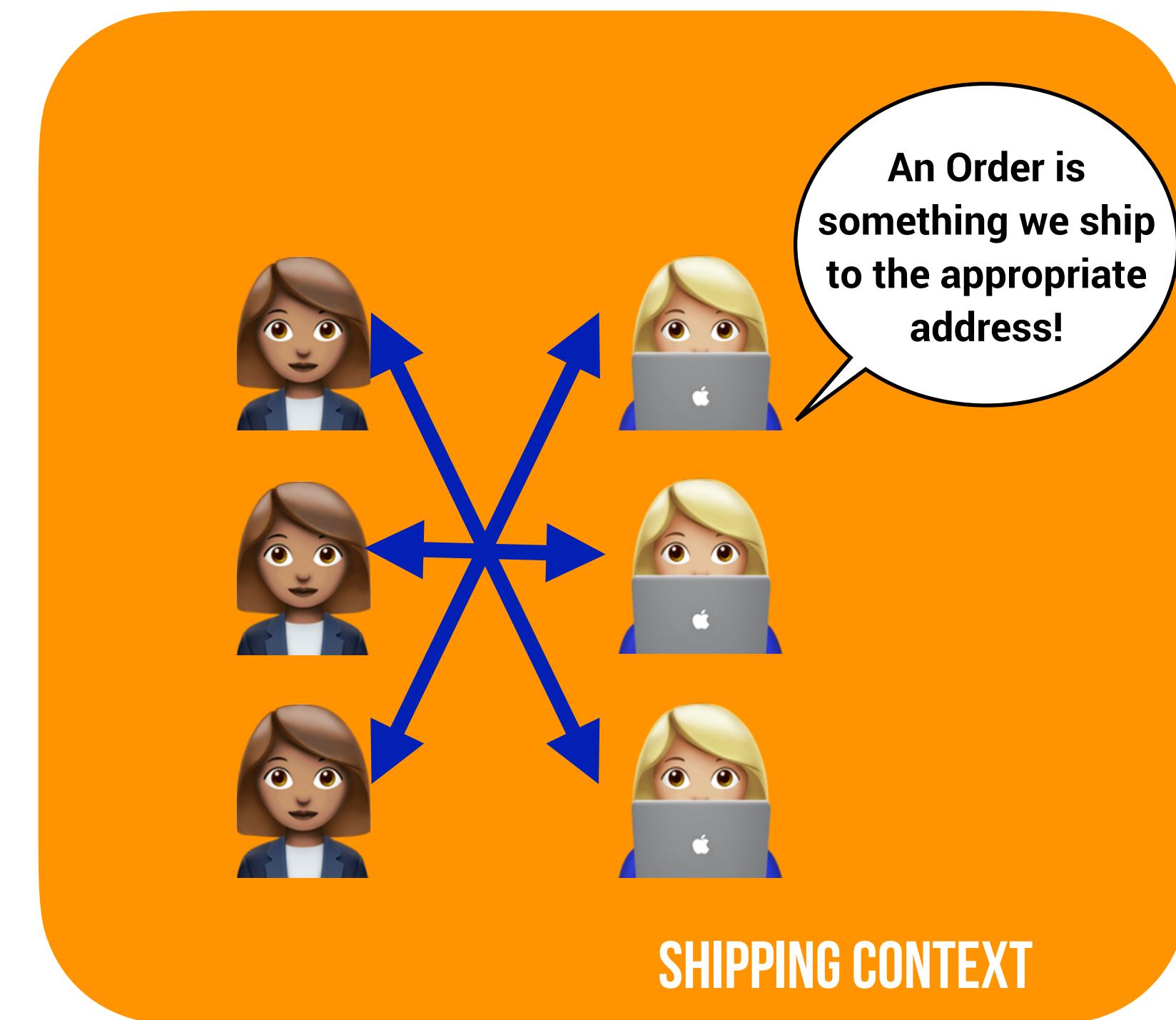
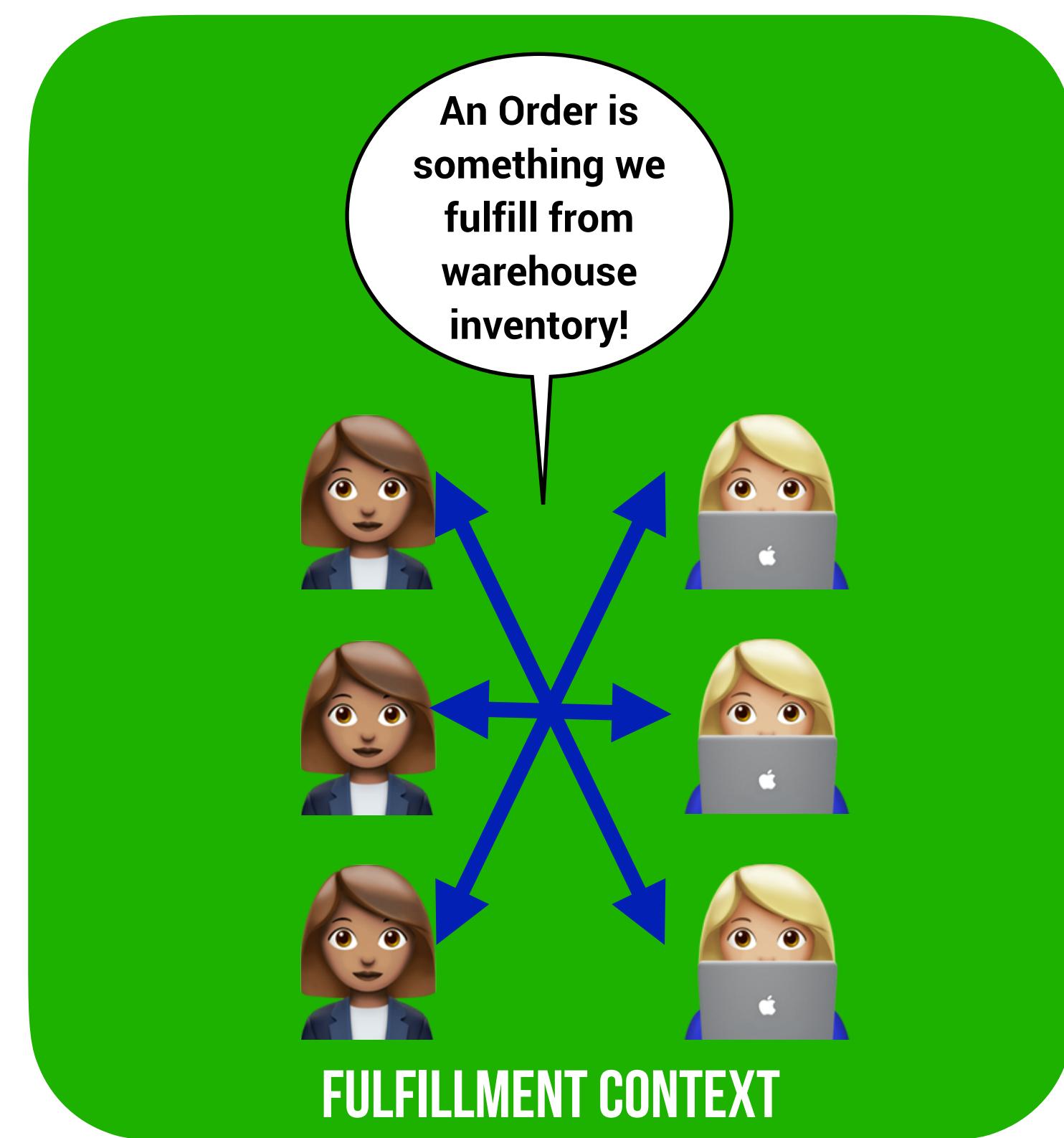
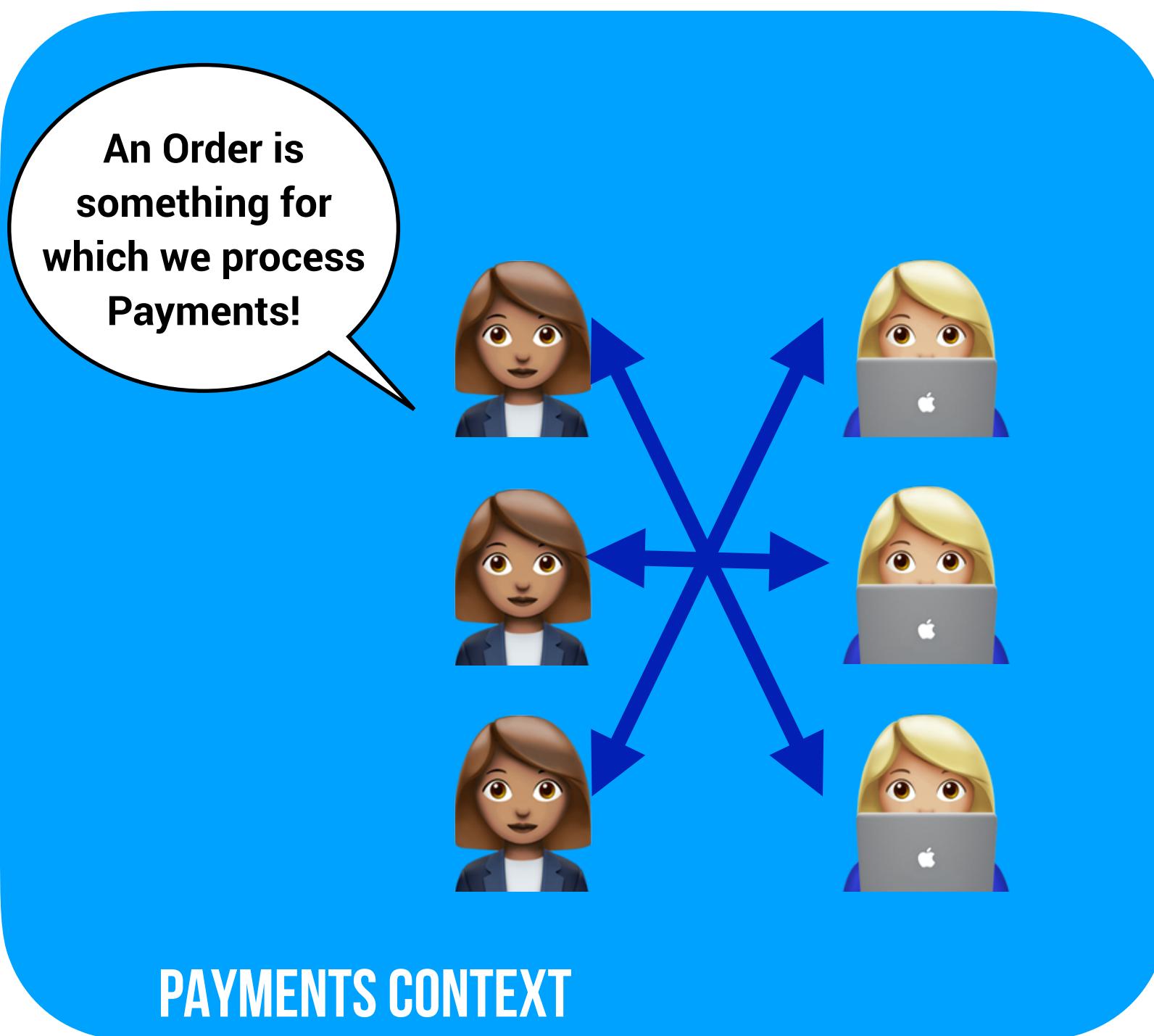
An Order is something we fulfill from warehouse inventory!



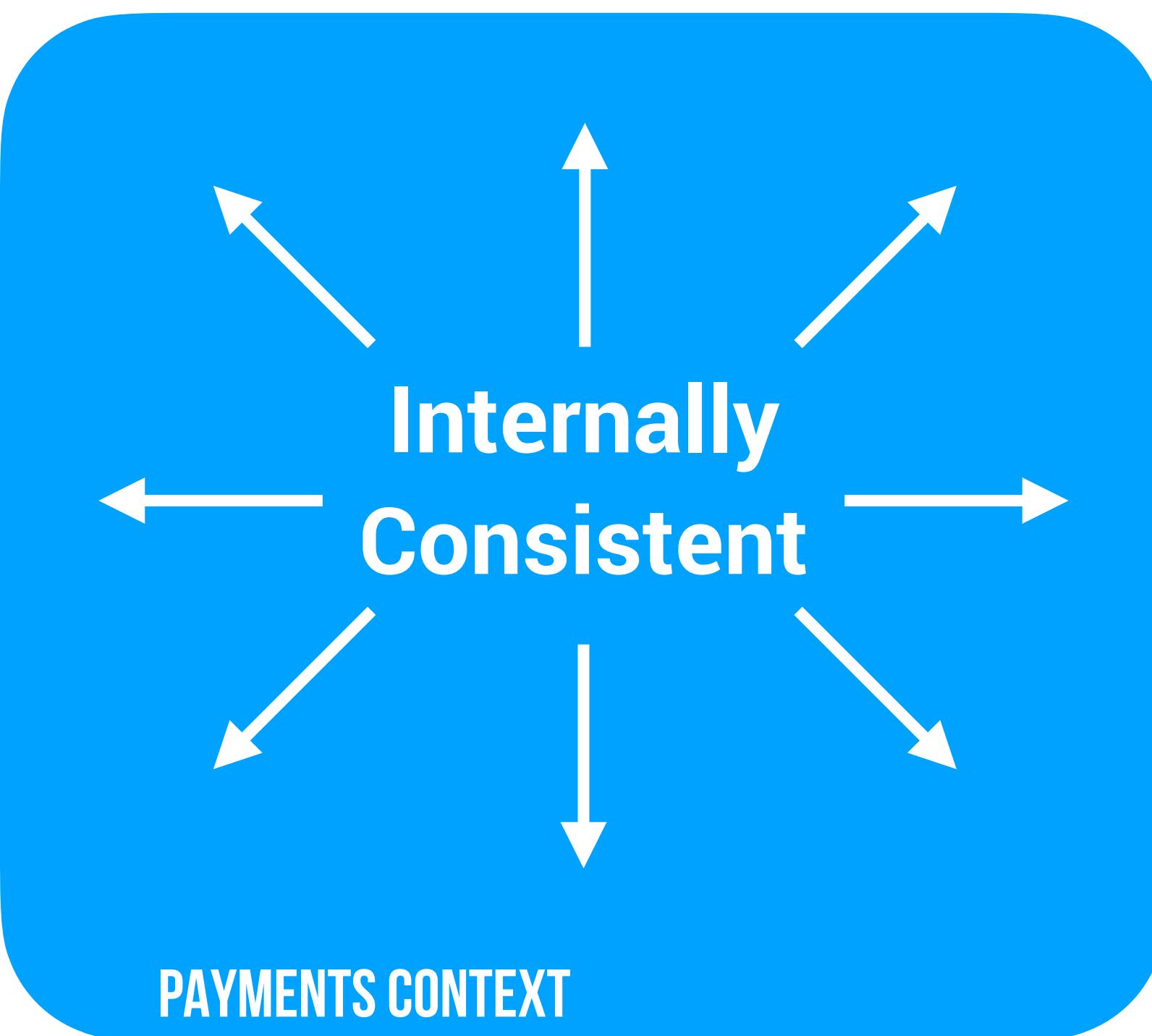
An Order is something we ship to the appropriate address!



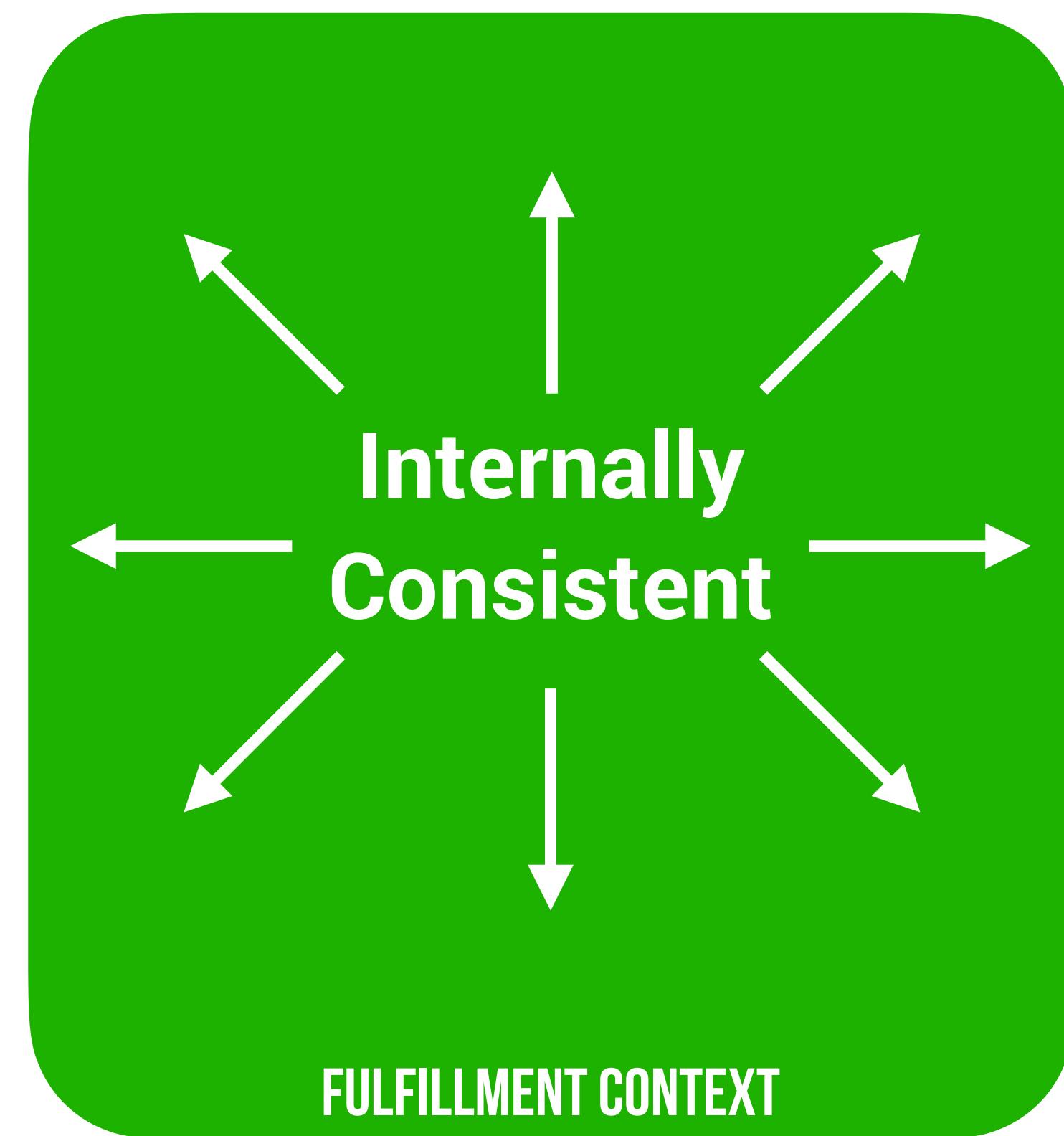
BOUND AND EMBRACE THE DIFFERENCES



THE LANGUAGE IS SCOPED



Undefined



Undefined



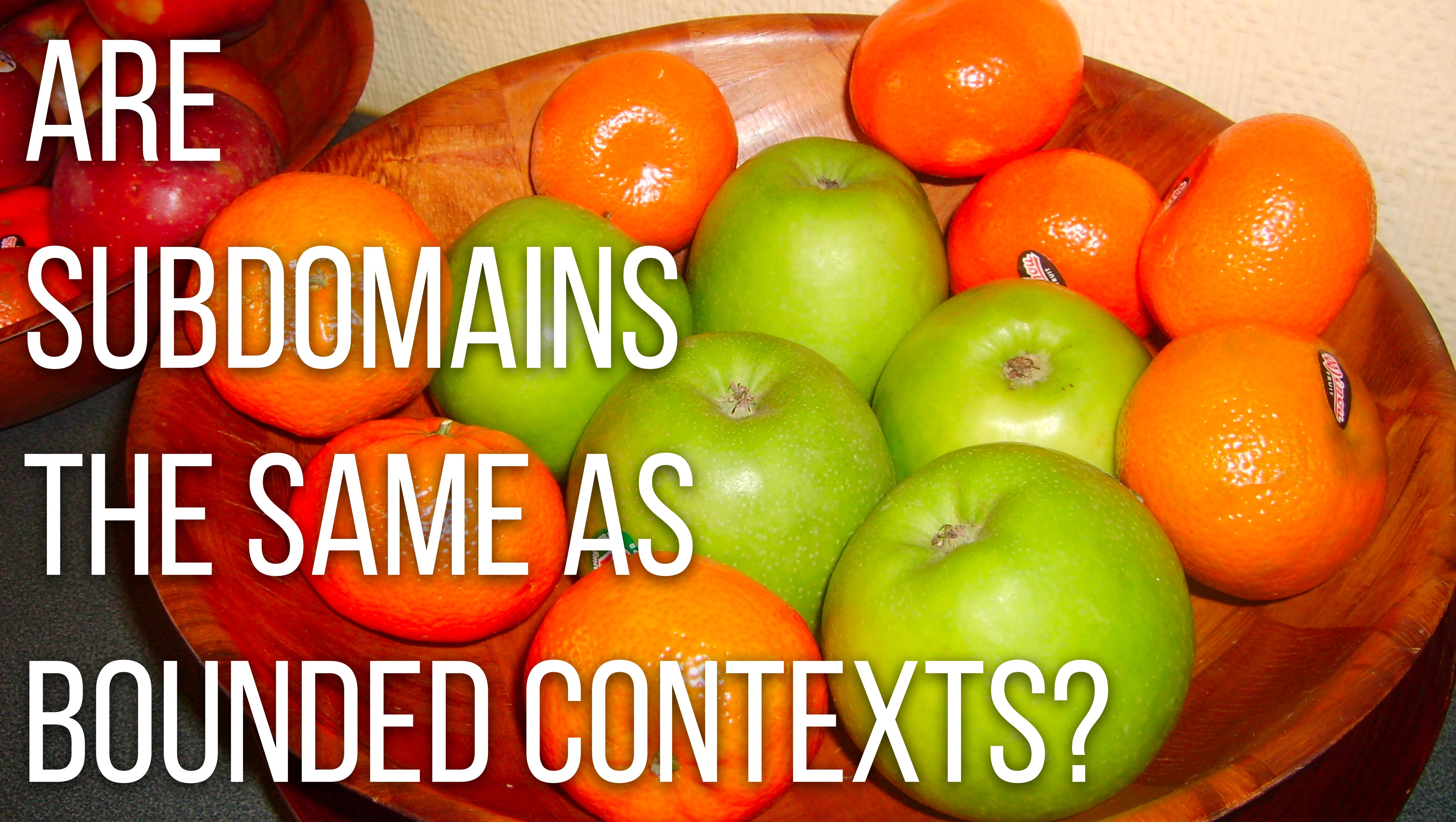
Undefined

A **Subdomain** is a single, logical domain model that
is a sub-part of your overall business domain.

SUBDOMAINS

- **Core**
strategic, competitive differentiators
- **Generic**
 - necessary, but available as COTS/SaaS (e.g. HR software)
- **Supporting**
 - necessary, but requires custom software development

Focus your DDD effort only on Core Subdomains.



ARE
SUBDOMAINS
THE SAME AS
BOUNDED CONTEXTS?

A wide-angle photograph of a rural landscape. In the foreground, there's a lush green field with some low-lying shrubs or small trees. Beyond the field, several rolling hills covered in green grass stretch across the middle ground. The background features a bright blue sky filled with scattered, fluffy white clouds.

IDEAL:

1 BOUNDED CONTEXT : 1 SUBDOMAIN

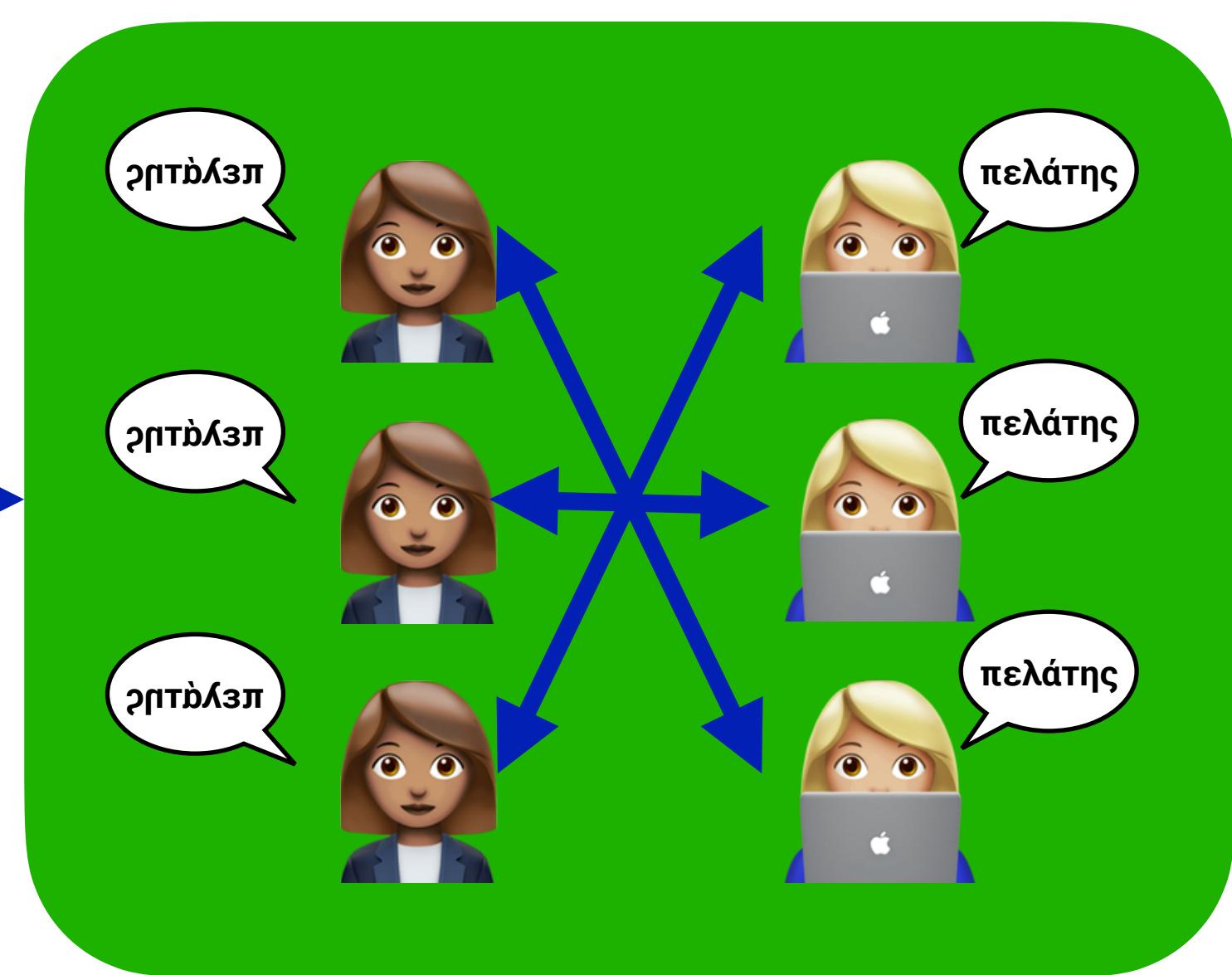
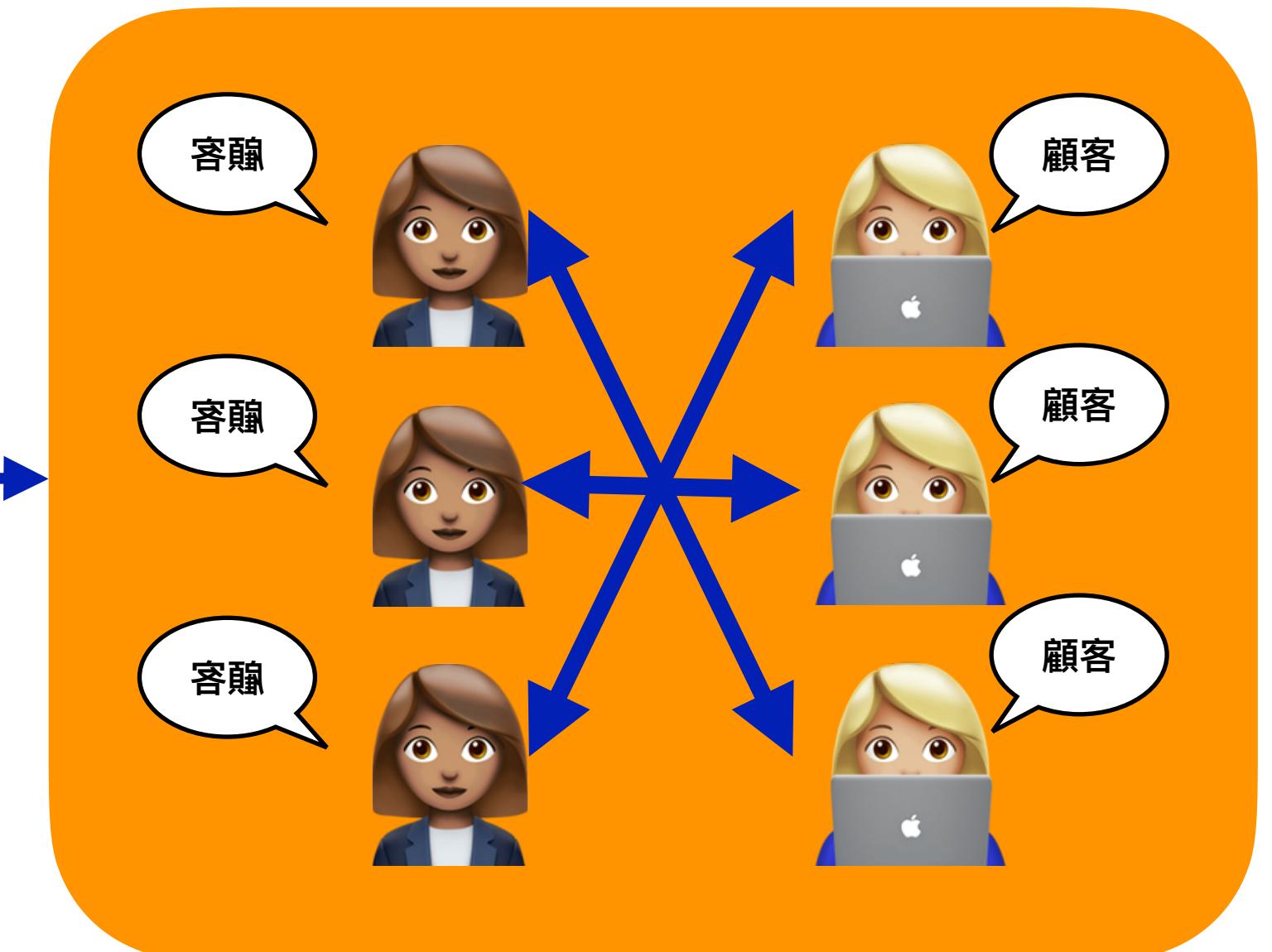
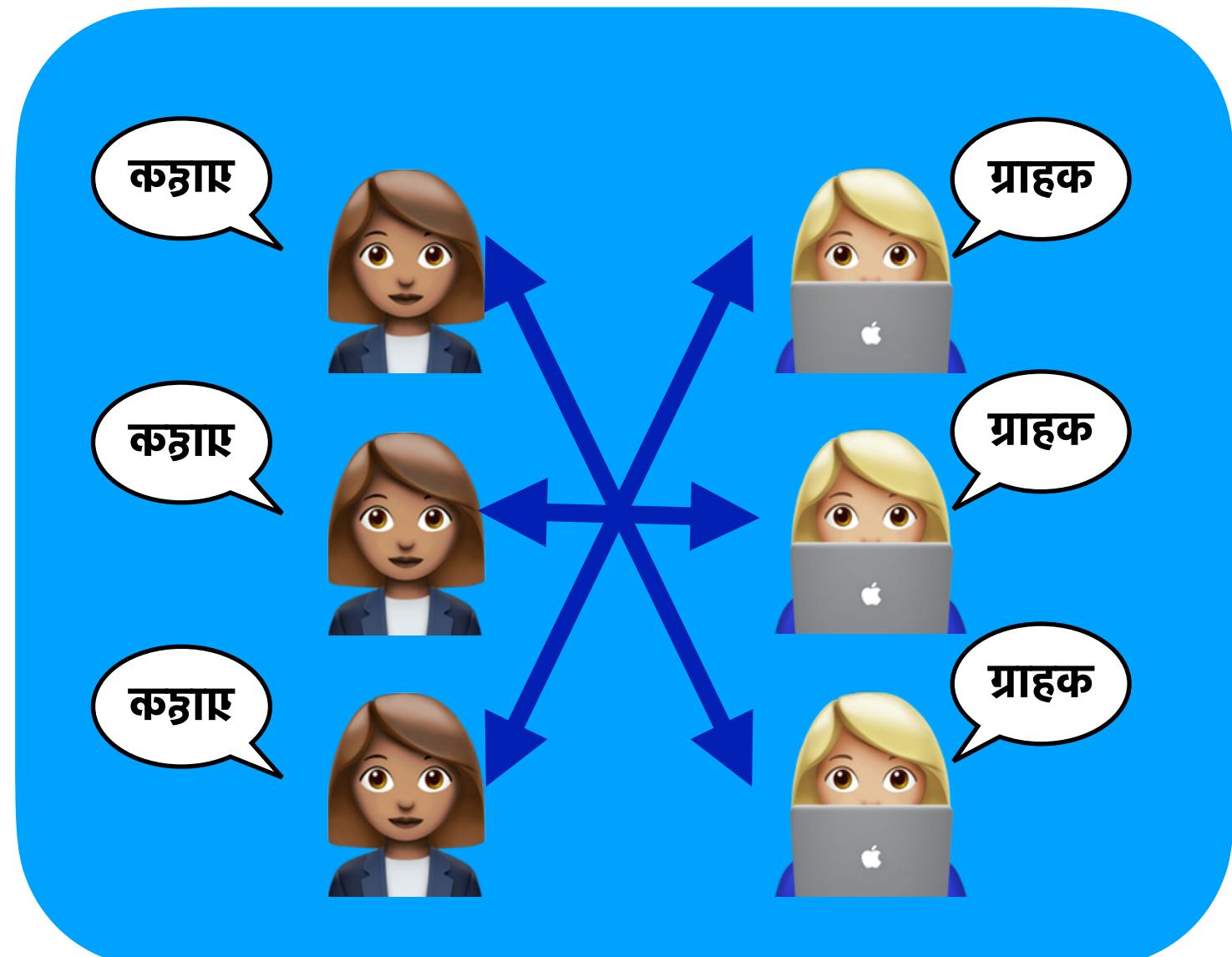
LEGACY
SYSTEMS
CAN BLUR
THE
LINES



CONTEXT MAPPING

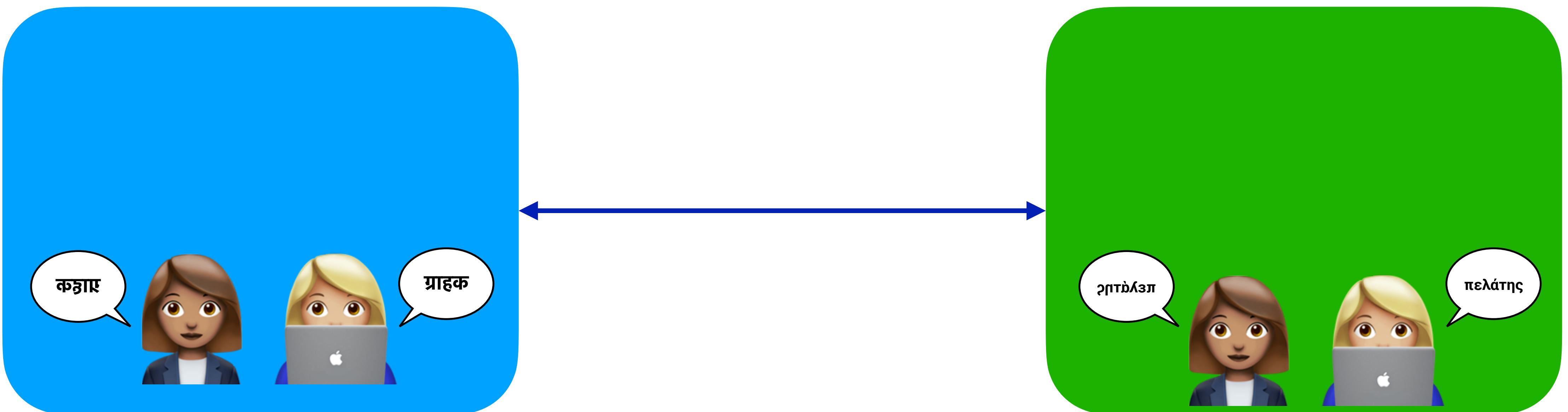


CONNECTING THE CONTEXTS

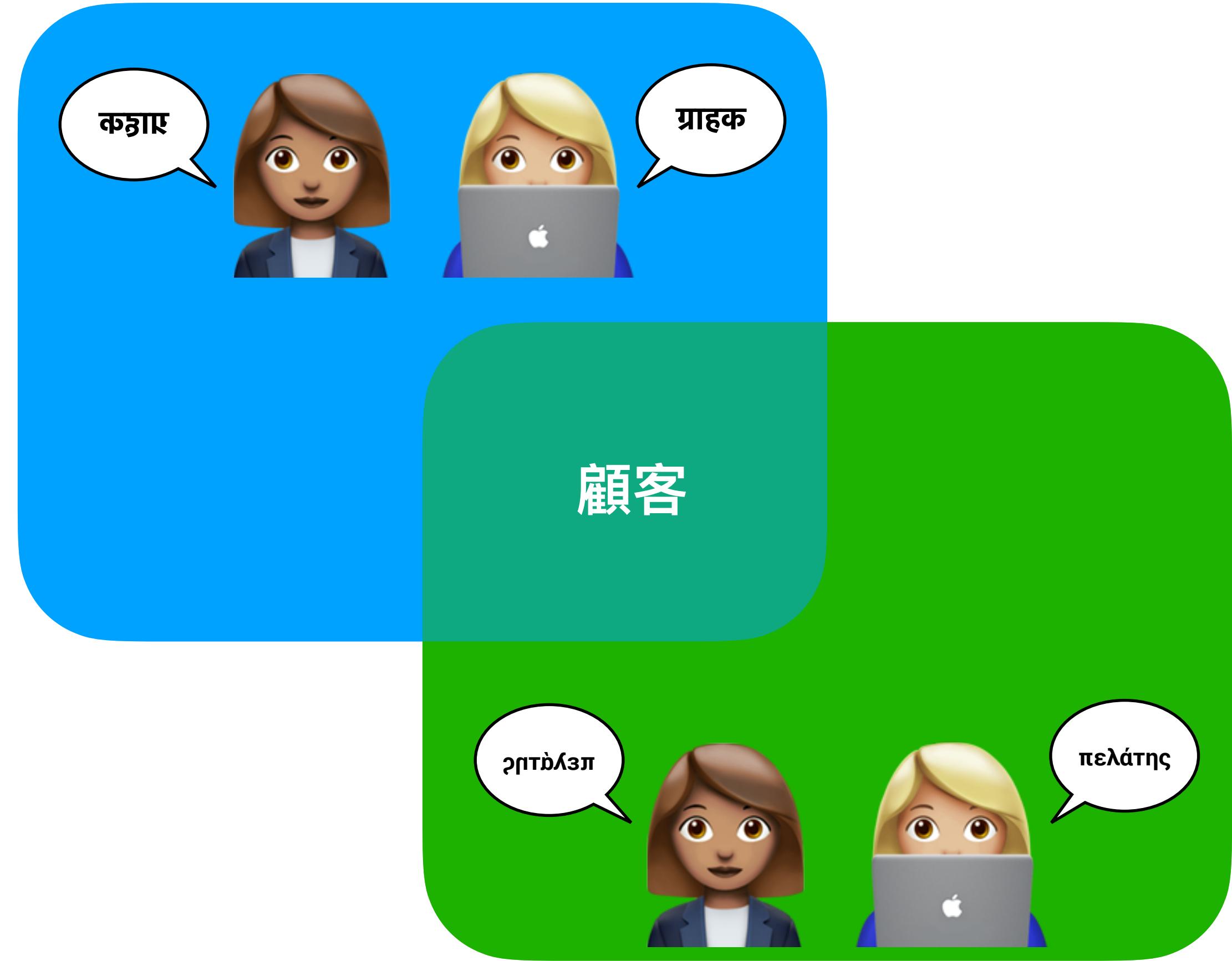


We define **mappings** on the basis of language.

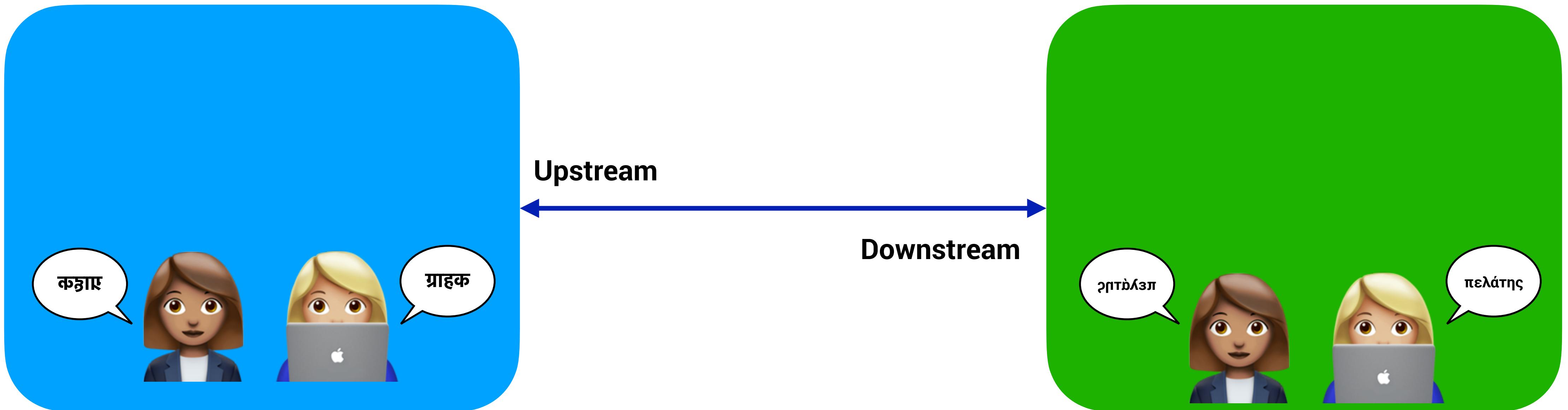
PARTNERSHIP



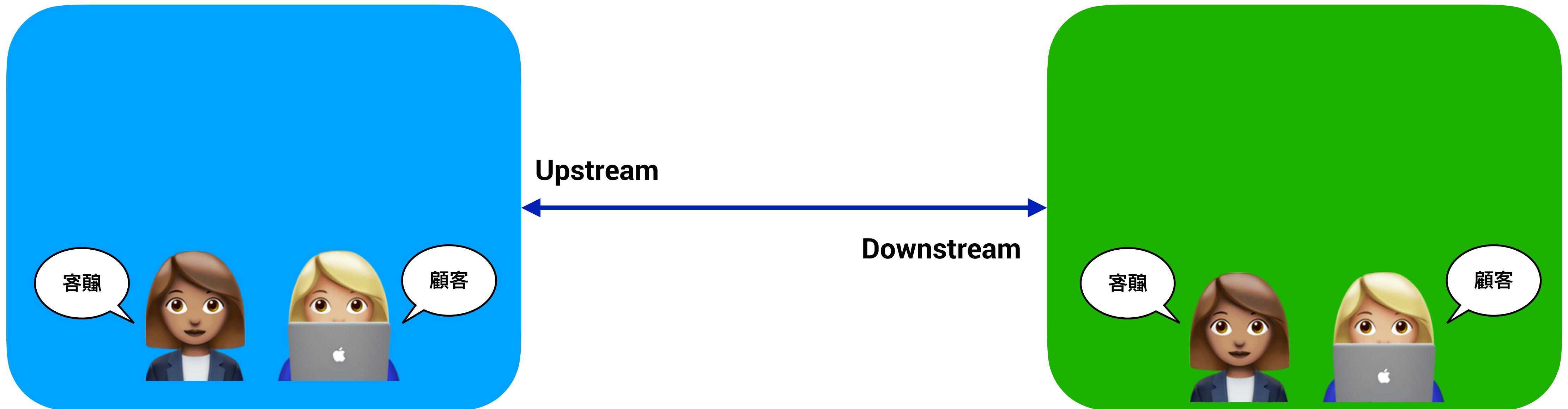
SHARED KERNEL



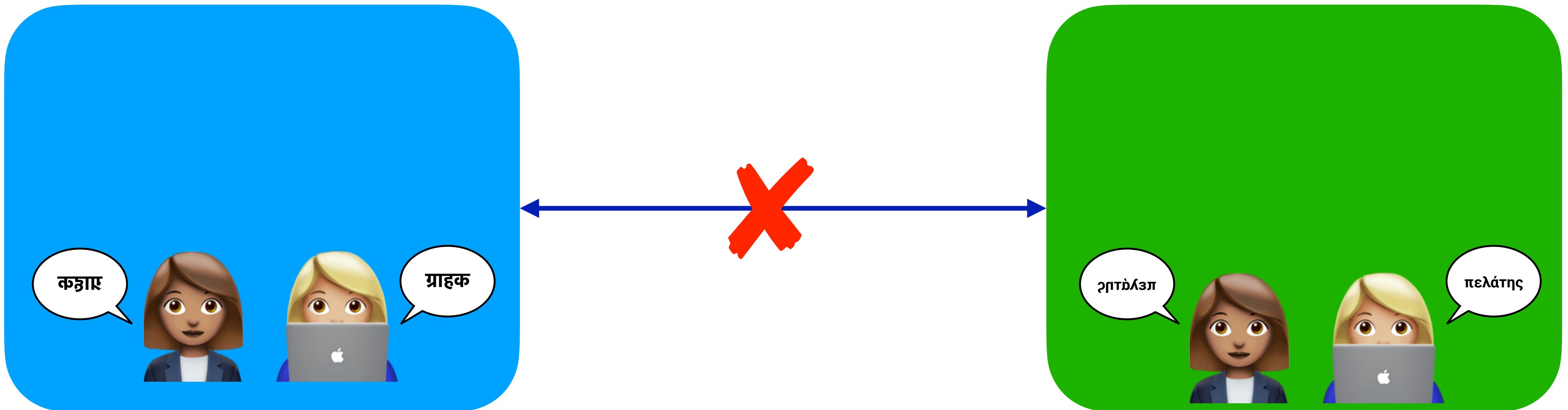
CUSTOMER-SUPPLIER



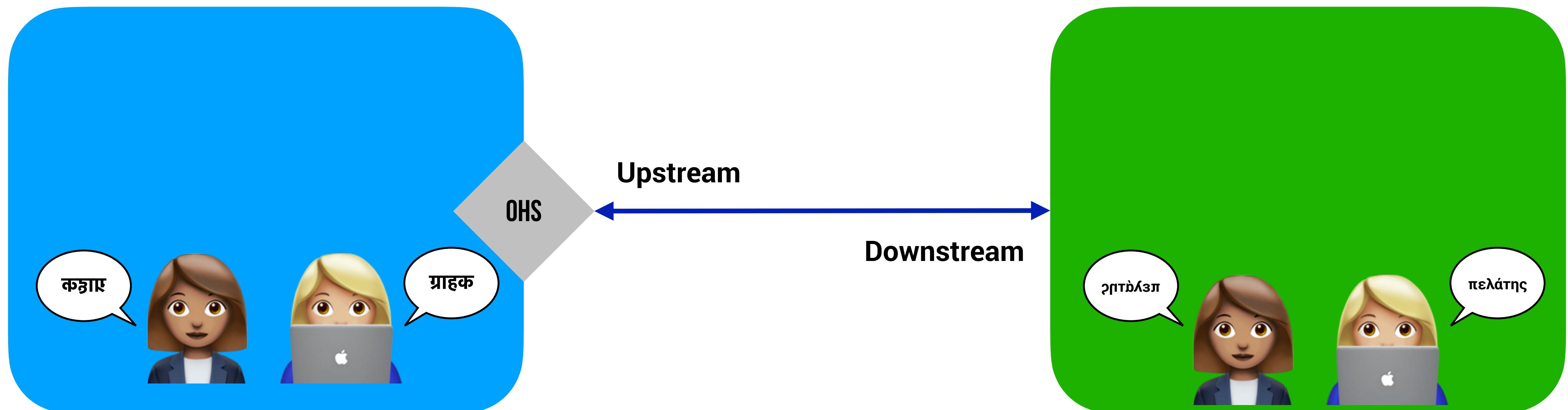
CONFORMIST



SEPARATE WAYS

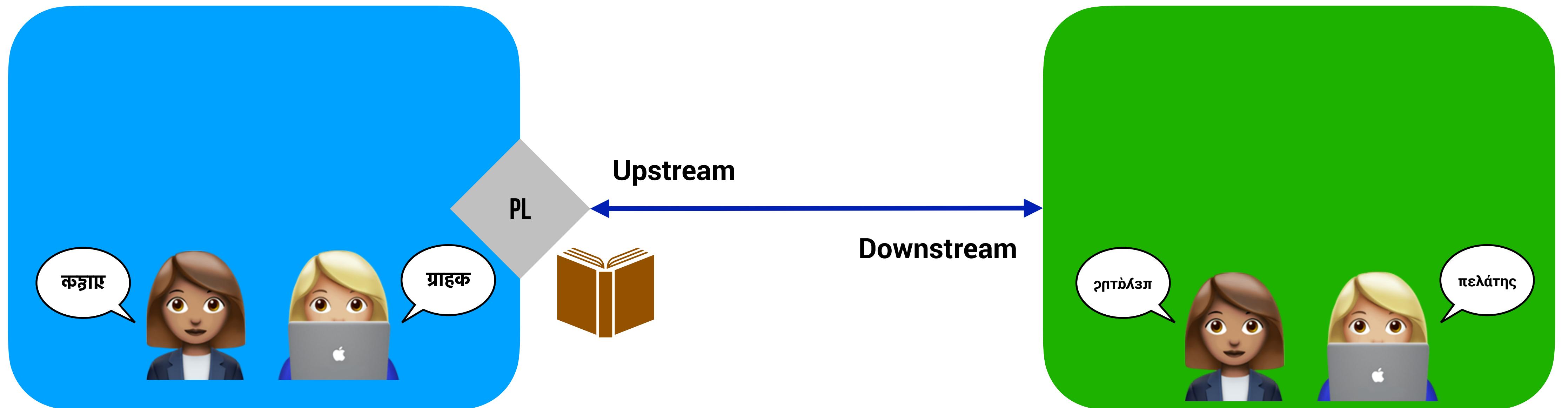


OPEN HOST SERVICE



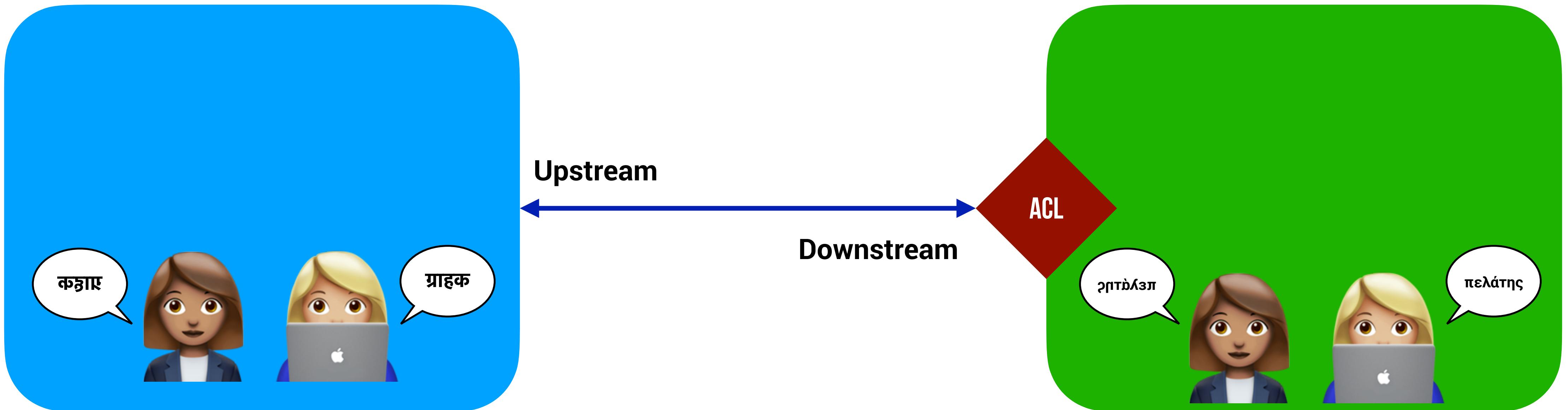
THINK API!

PUBLISHED LANGUAGE

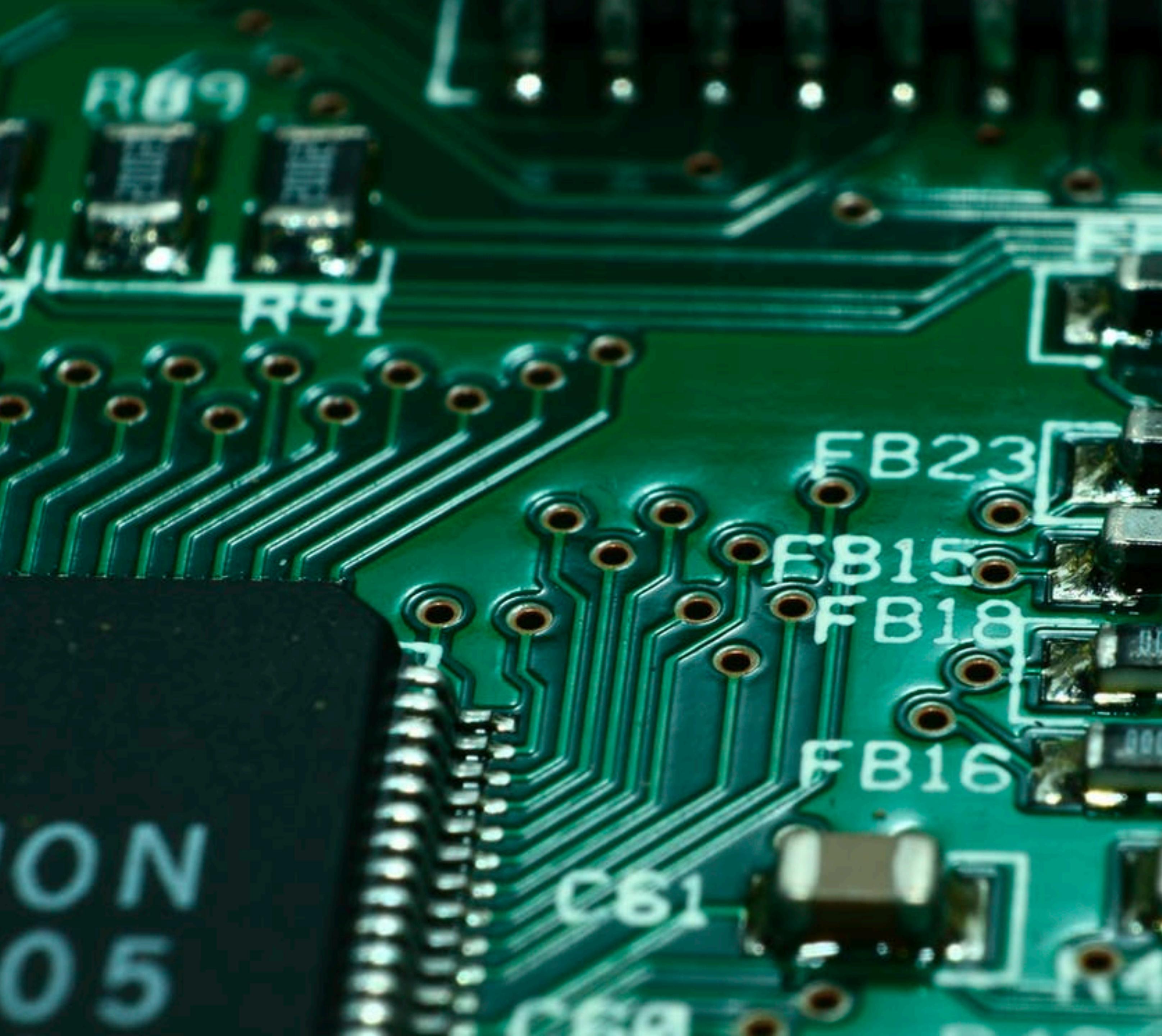


THINK API!

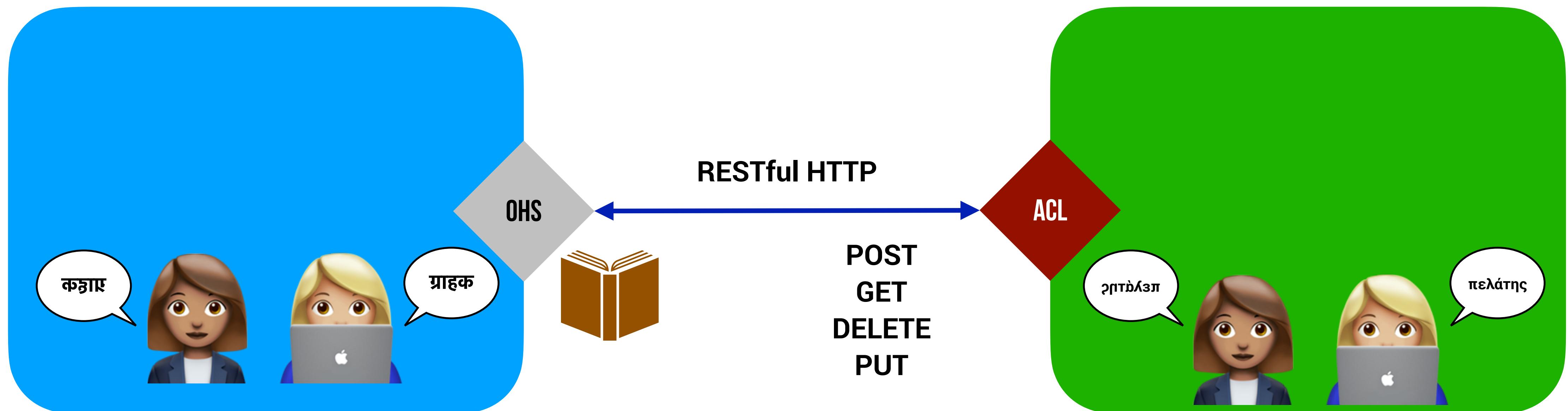
ANTICORRUPTION LAYER



CONTEXT MAPPING VS. TECHNICAL ARCHITECTURE



RESTFUL HTTP



MESSAGING

