Micro Frontends

How to evolve to an extensible frontend

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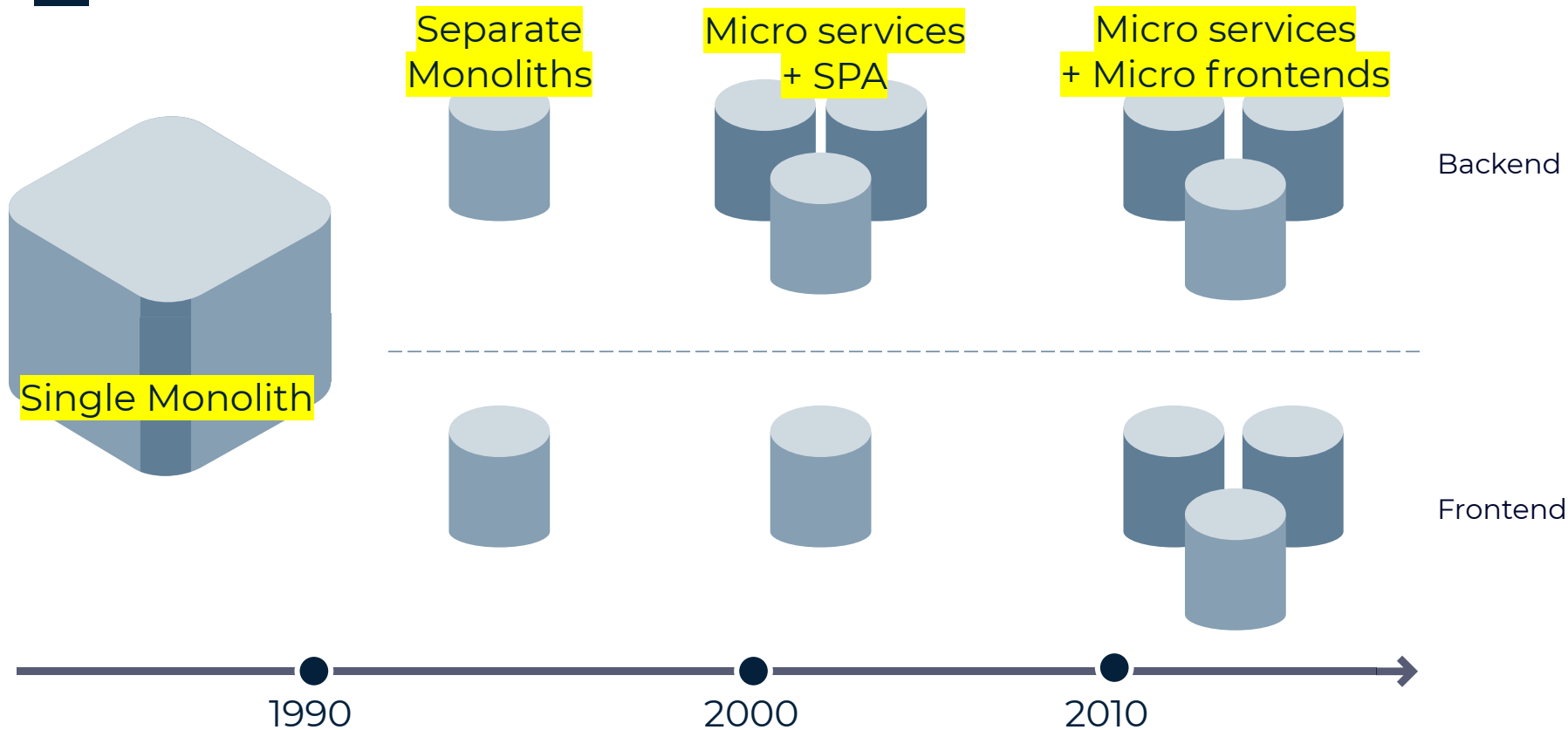
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The Problem

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You have this complex software that is developed by a huge team and it's a mess to maintain. To make it even worse, you have additional requirements like high availability and short delivery times.

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A brief history of web apps architecture

Separate Monoliths

Micro services + SPA

Micro services + Micro frontends

Backend

Single Monolith

Frontend

1990

2000

2010

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What is micro frontend architecture?

It is an approach to develop web applications as a composition of small frontend apps representing a business subdomain.
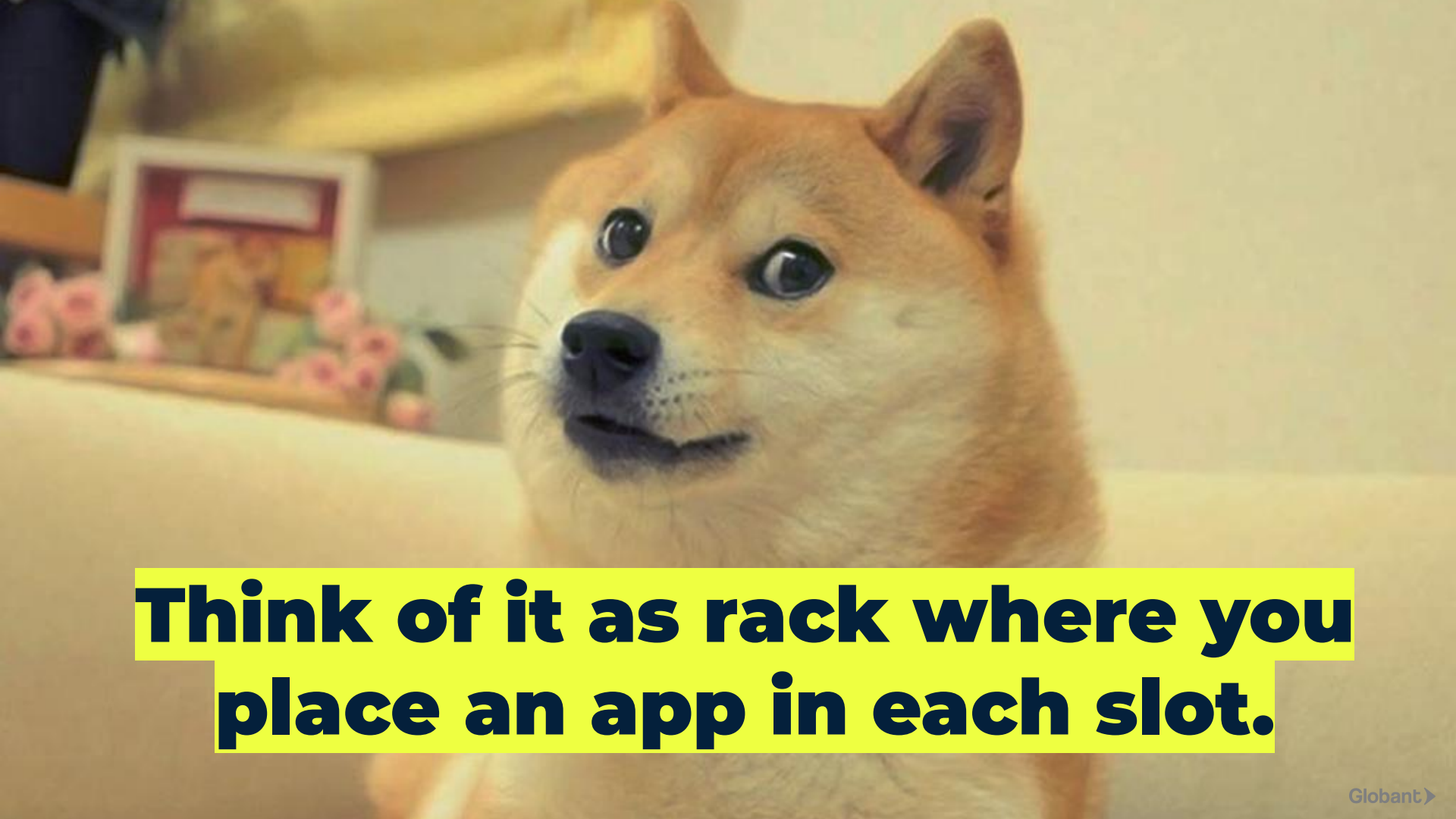
How do they look to the user?

How do they look like to the browser?

Think of it as rack where you place an app in each slot.
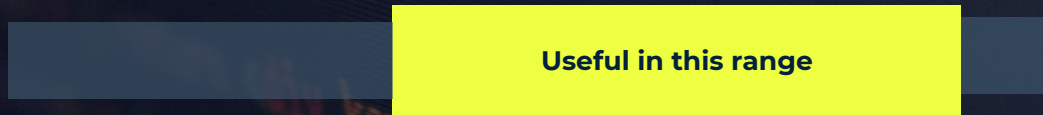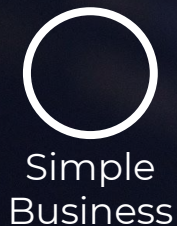
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DEMO!

Trade offs

- ➜ Organizational Flexibility
- ➜ Increased scalability and deployability
- ➜ Reduced ramp up for new devs

VS

- ➜ Increased complexity
- ➜ Increased bundle sizes and data transfer
- ➜ Need emphasis on integration tests

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When should I use them?

Simple
Business

Useful in this range

Diverse
Business

When there's a chance to need a fragmented release.

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https://github.com/StuMx/microfrontends-talk

Thanks

 @StuMx

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