

# Microservices with Service Fabric

Easy... or is it?

# Goals

Stateless and **Stateful** Services

**Partitioning** of Business Data

**Message Patterns** and Partitioning

# Premise

A Tale of

chocolate

# Horrible death of easter bunnies



# Karl's, Sales Pitch

# Our Chocolate Microservices

High Availability

Automatic Rollback

Load balancing

Stateless Services

Hyper Scale

Data Partitioning

Stateful Services

Rolling Upgrades

Replication & Failover

Self-healing

Health Monitoring

Container orchestration & lifecycle management

On-premises or in the cloud

<https://channel9.msdn.com/Blogs/Azure/Azure-Service-Fabric>

<https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-overview>

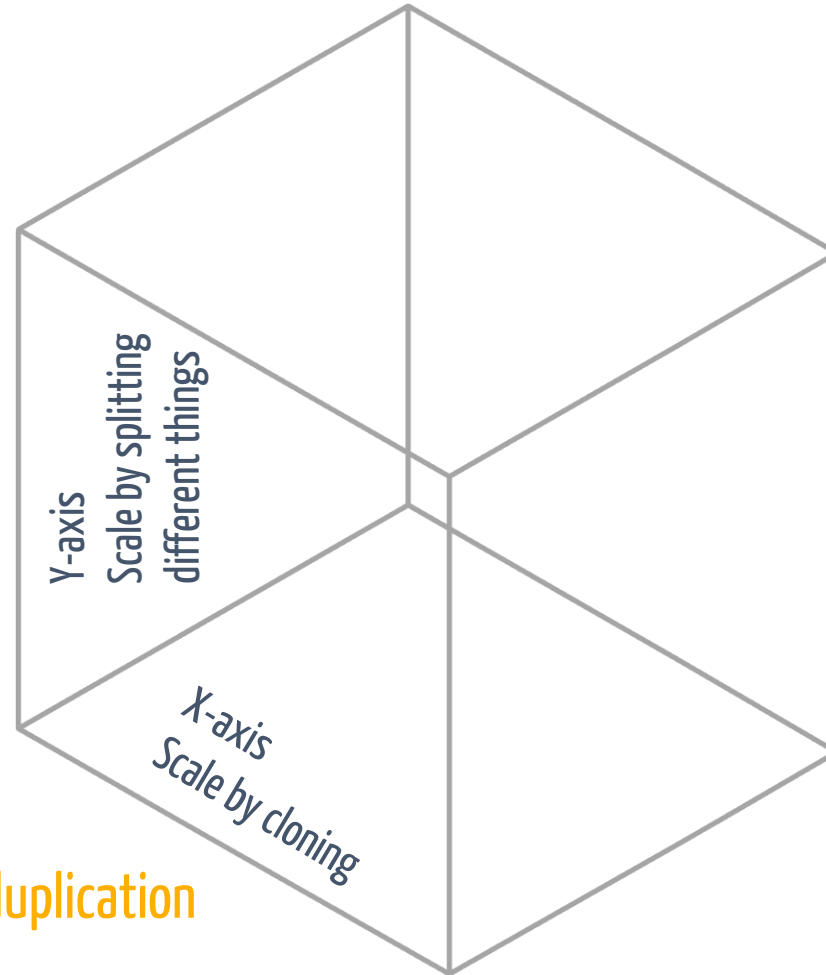
# Demo

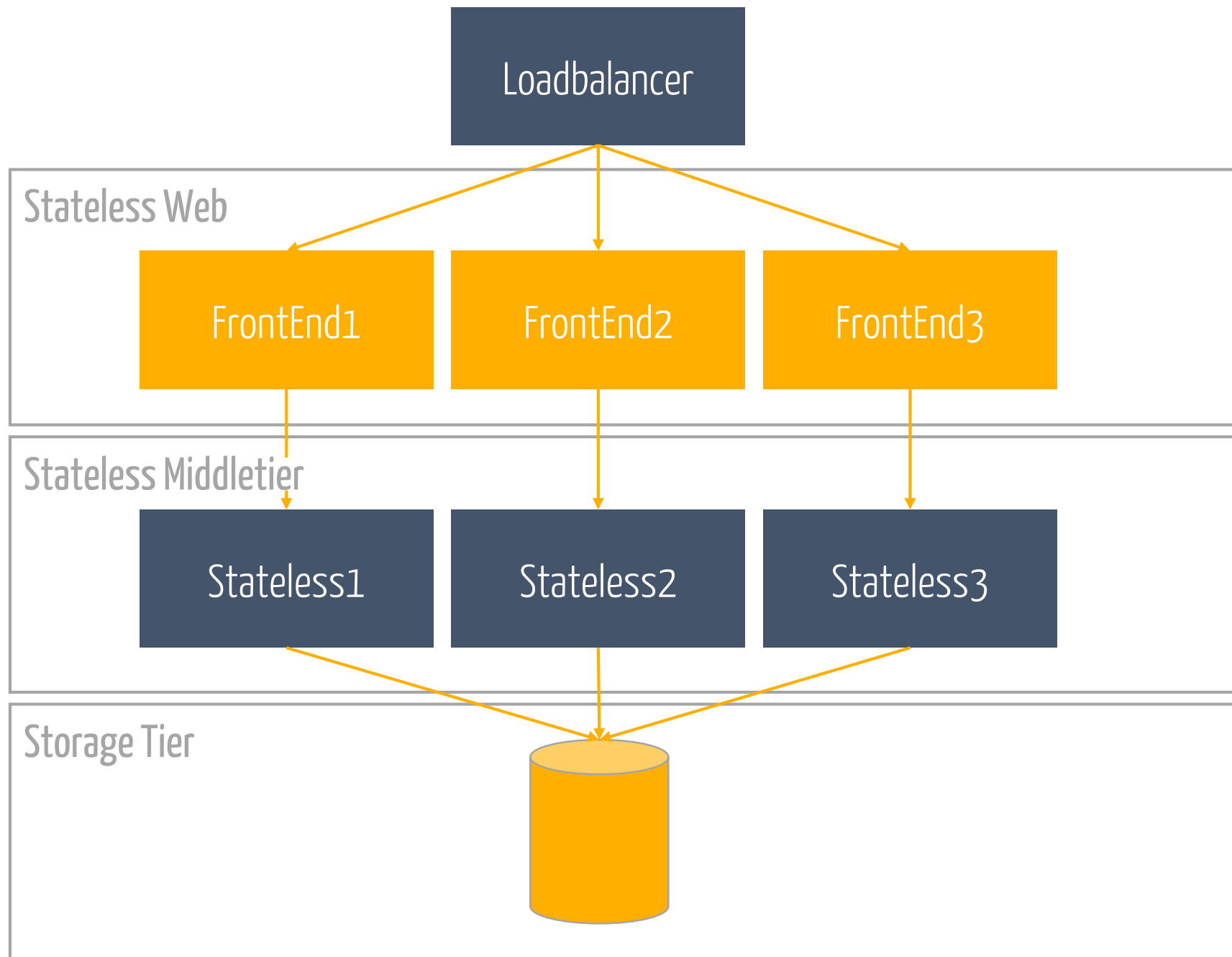


Let's scale  
chocolate

Functional decomposition

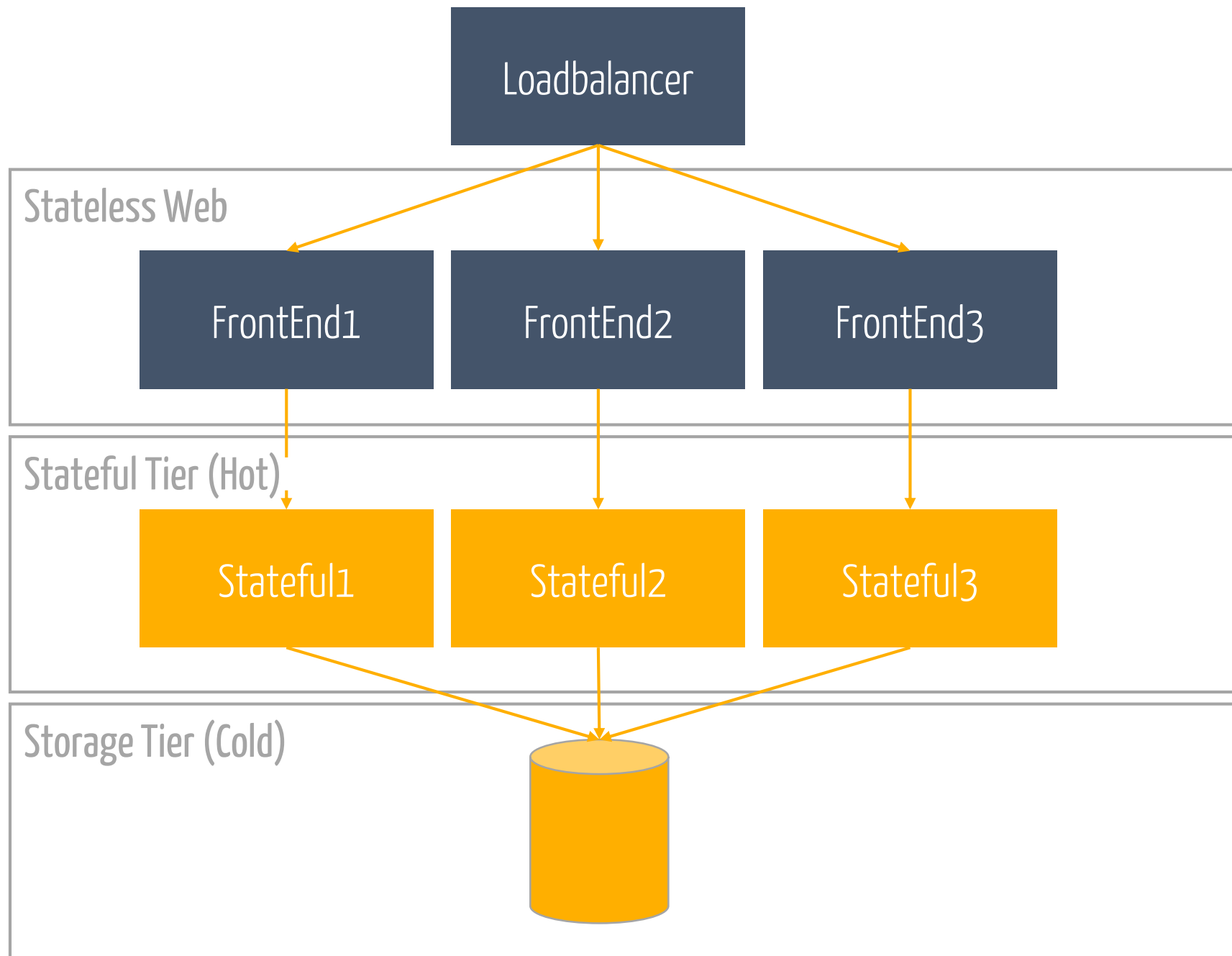
Horizontal duplication

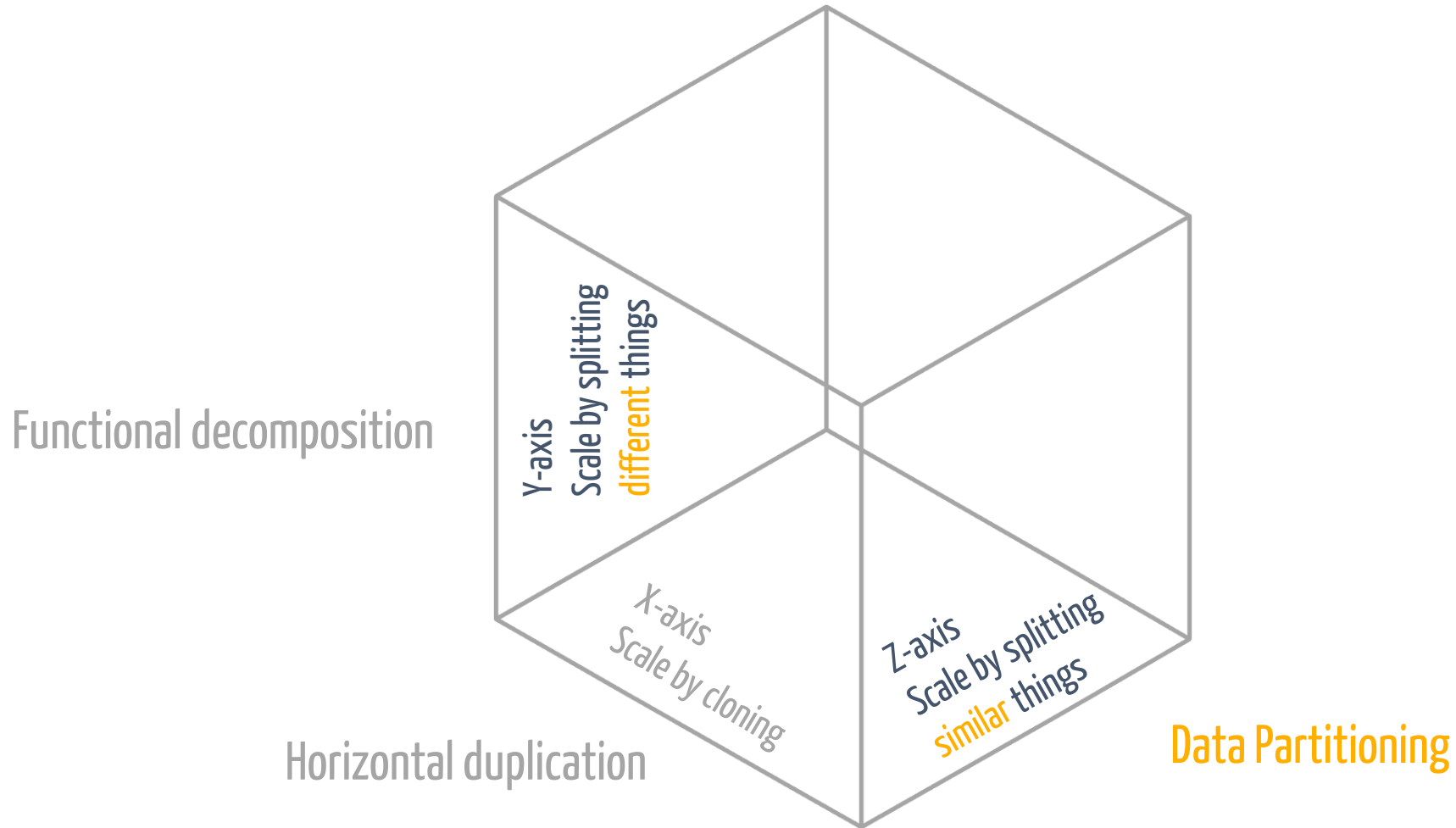


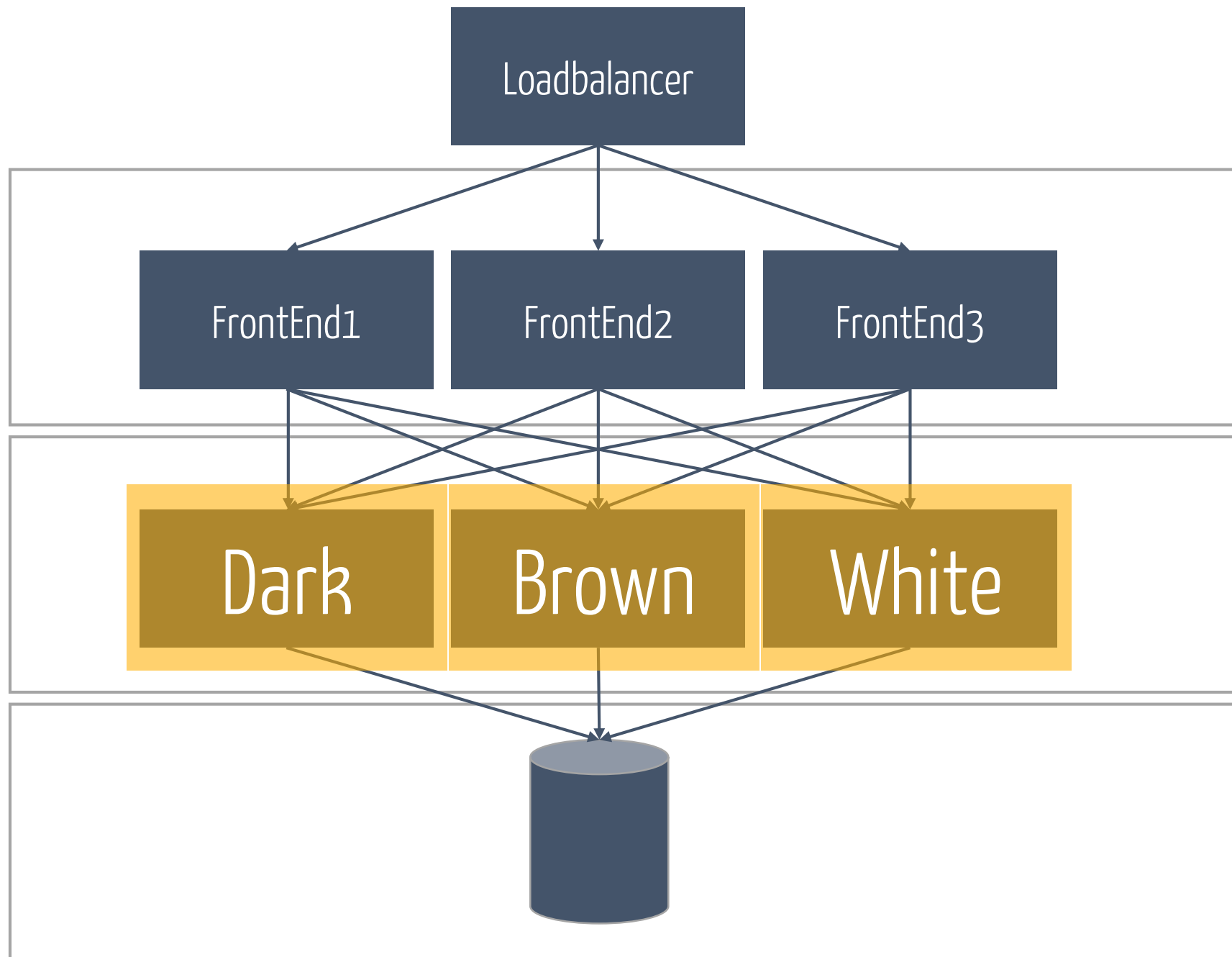


and then

Mandy spoke up



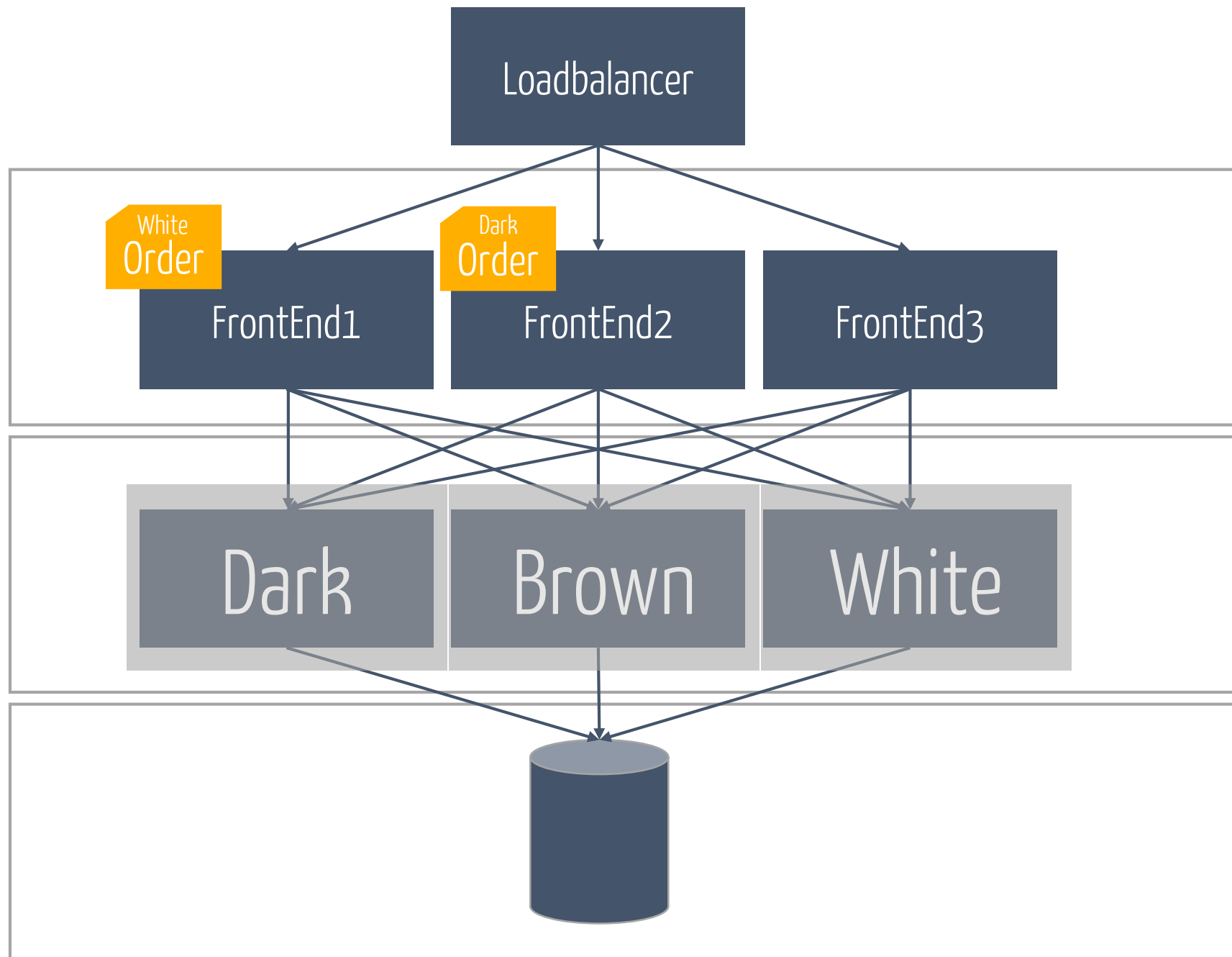




# However

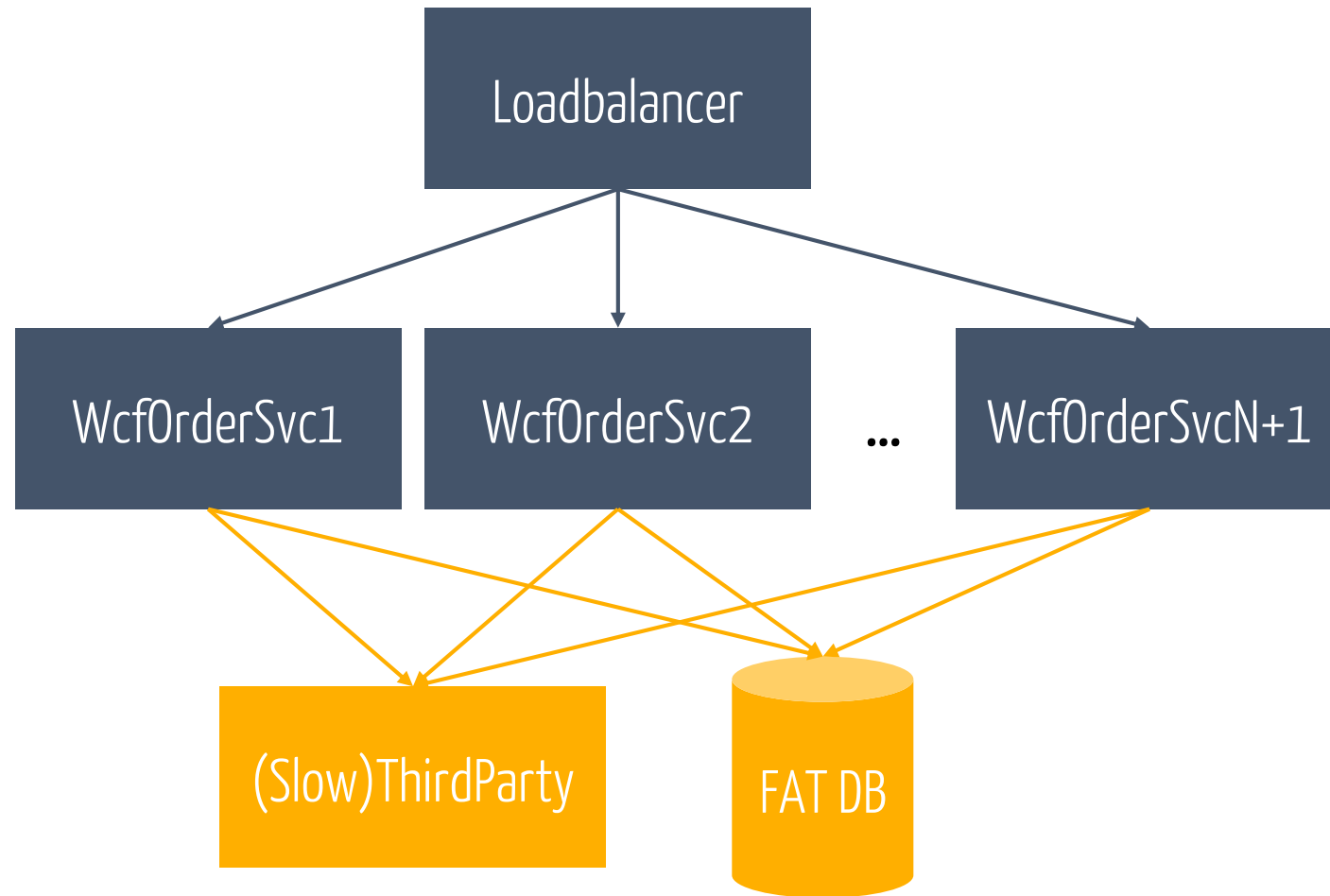
Joe couldn't understand it

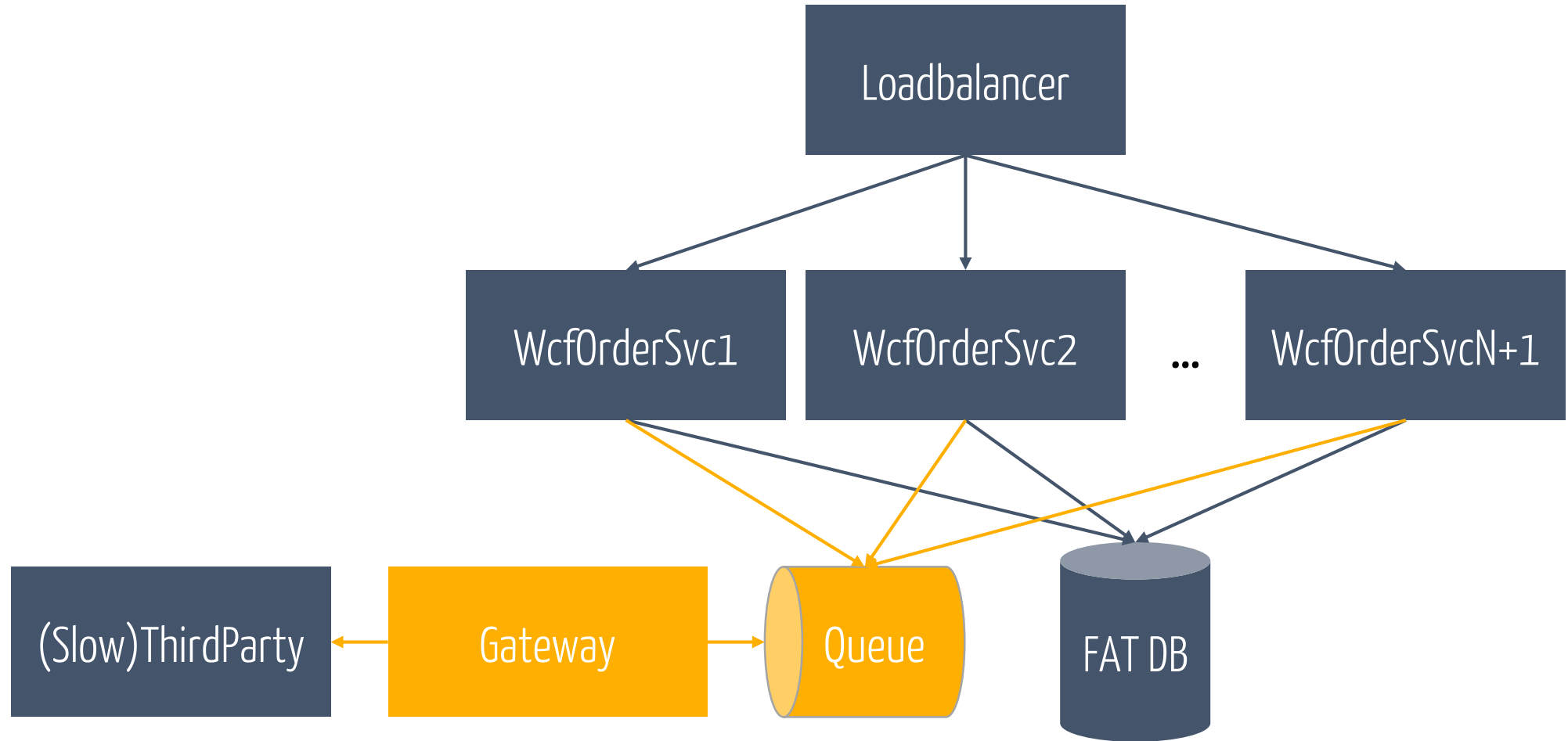


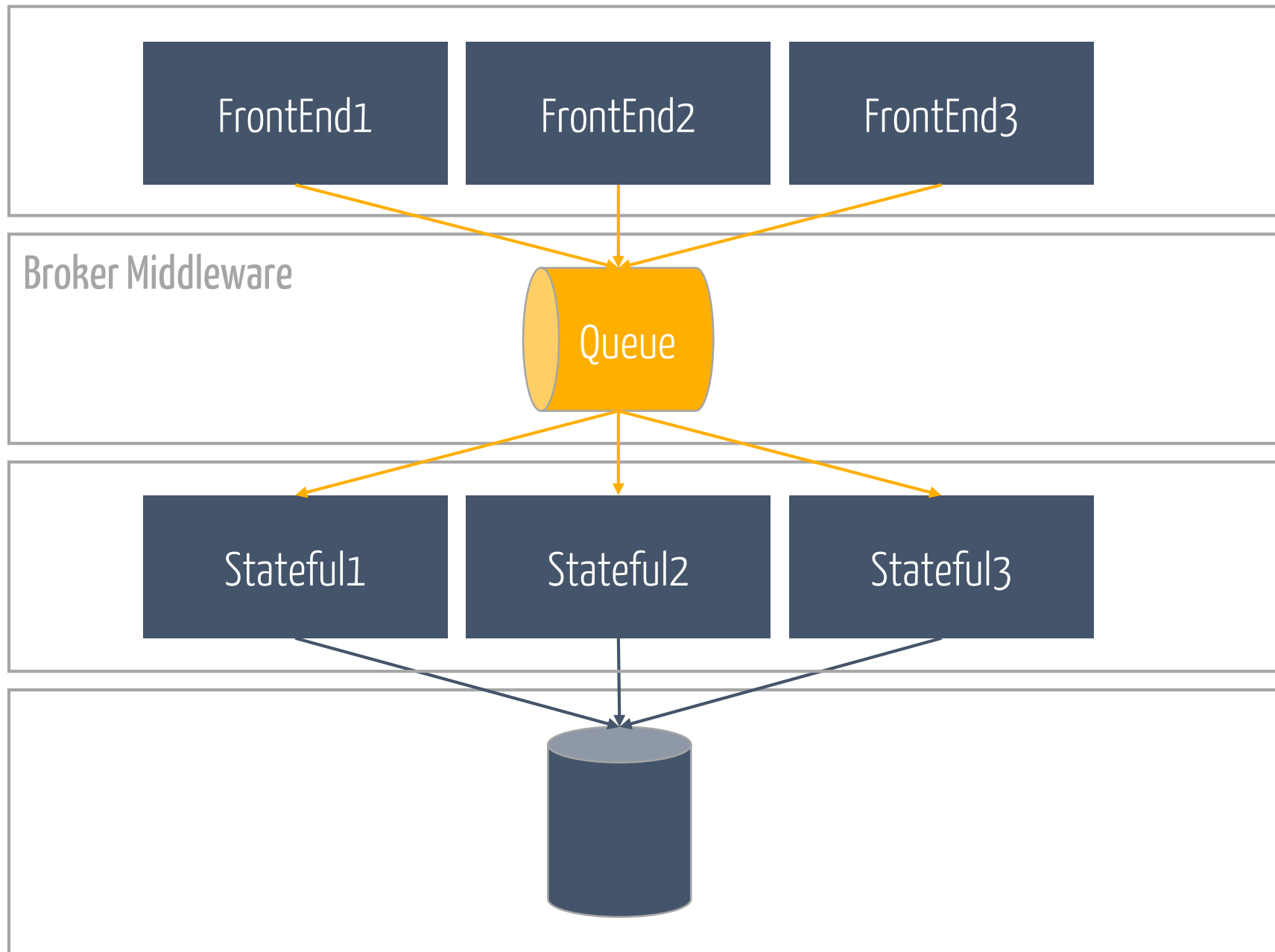


# And then

Sophia threw a grenade





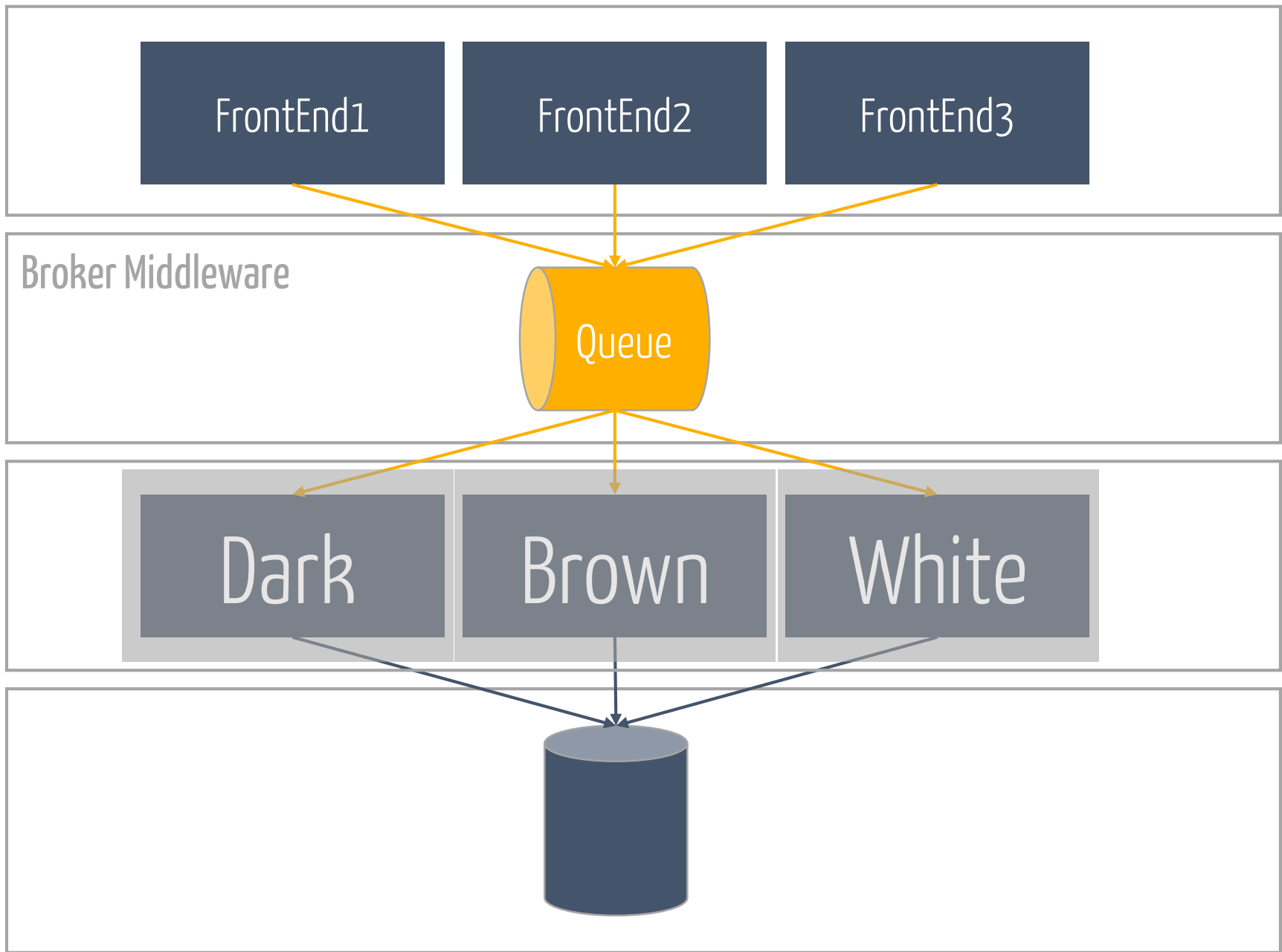


# Peter snatches

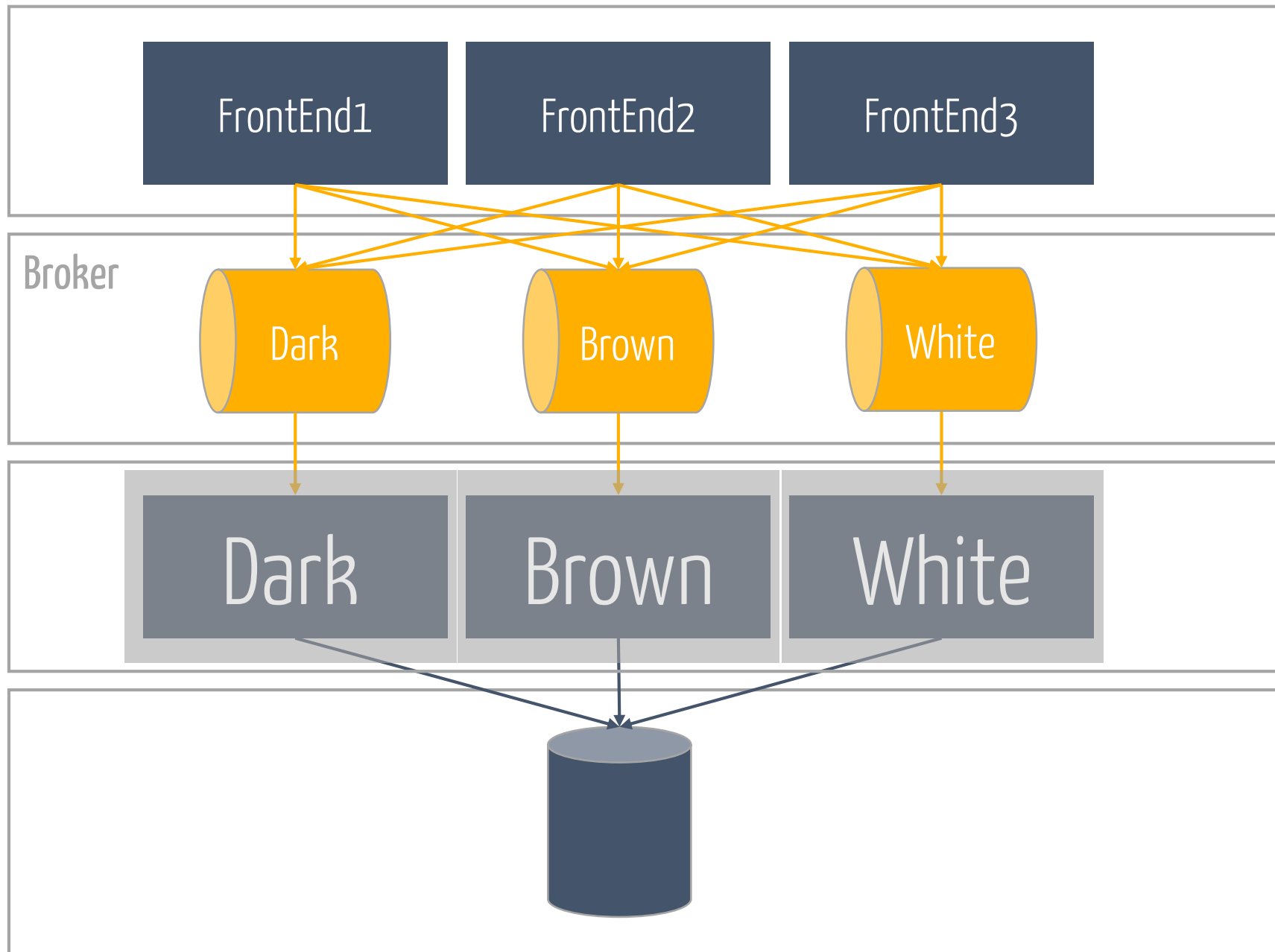
the whiteboard markers

and furiously

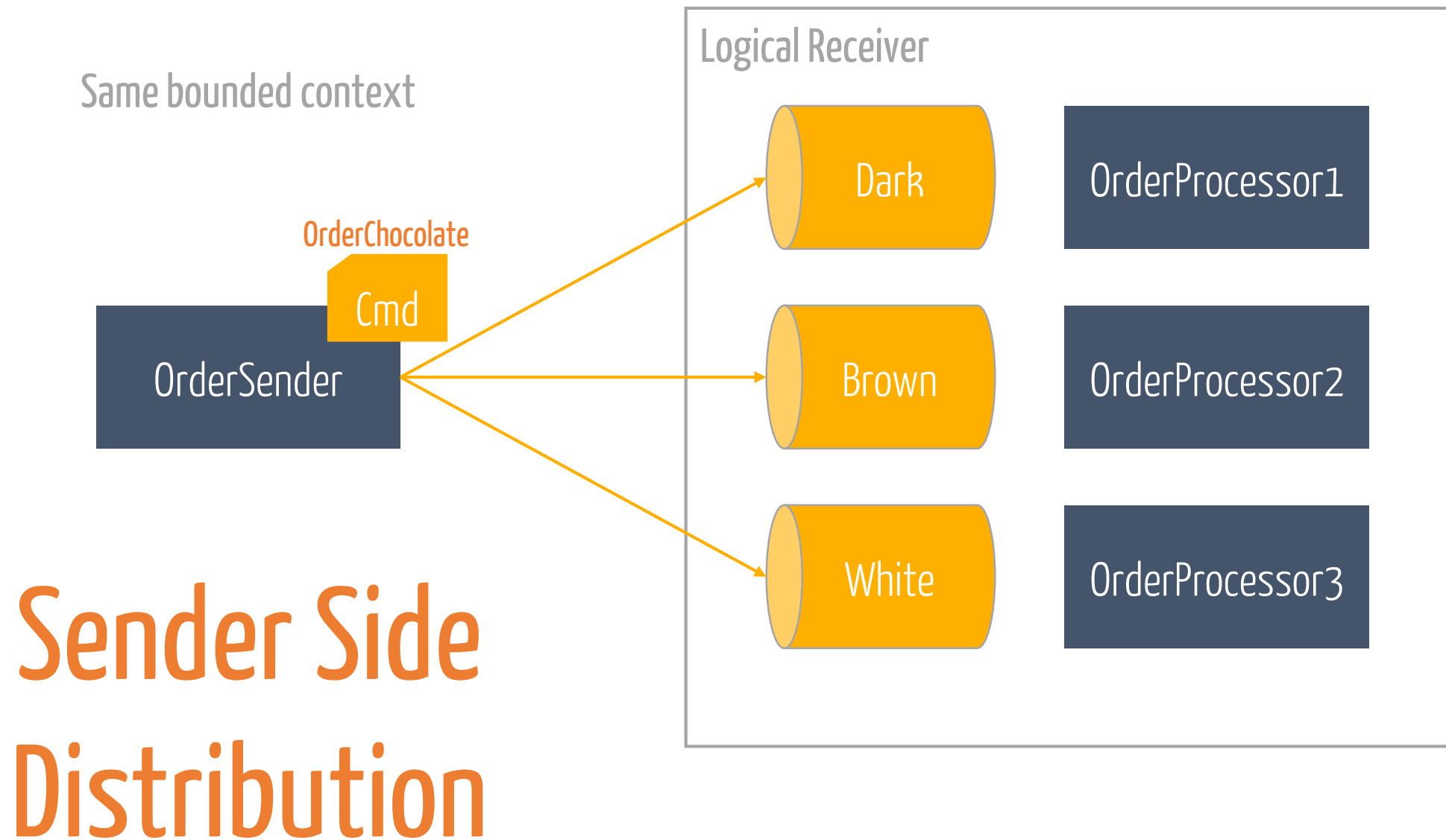
screams







# Commands

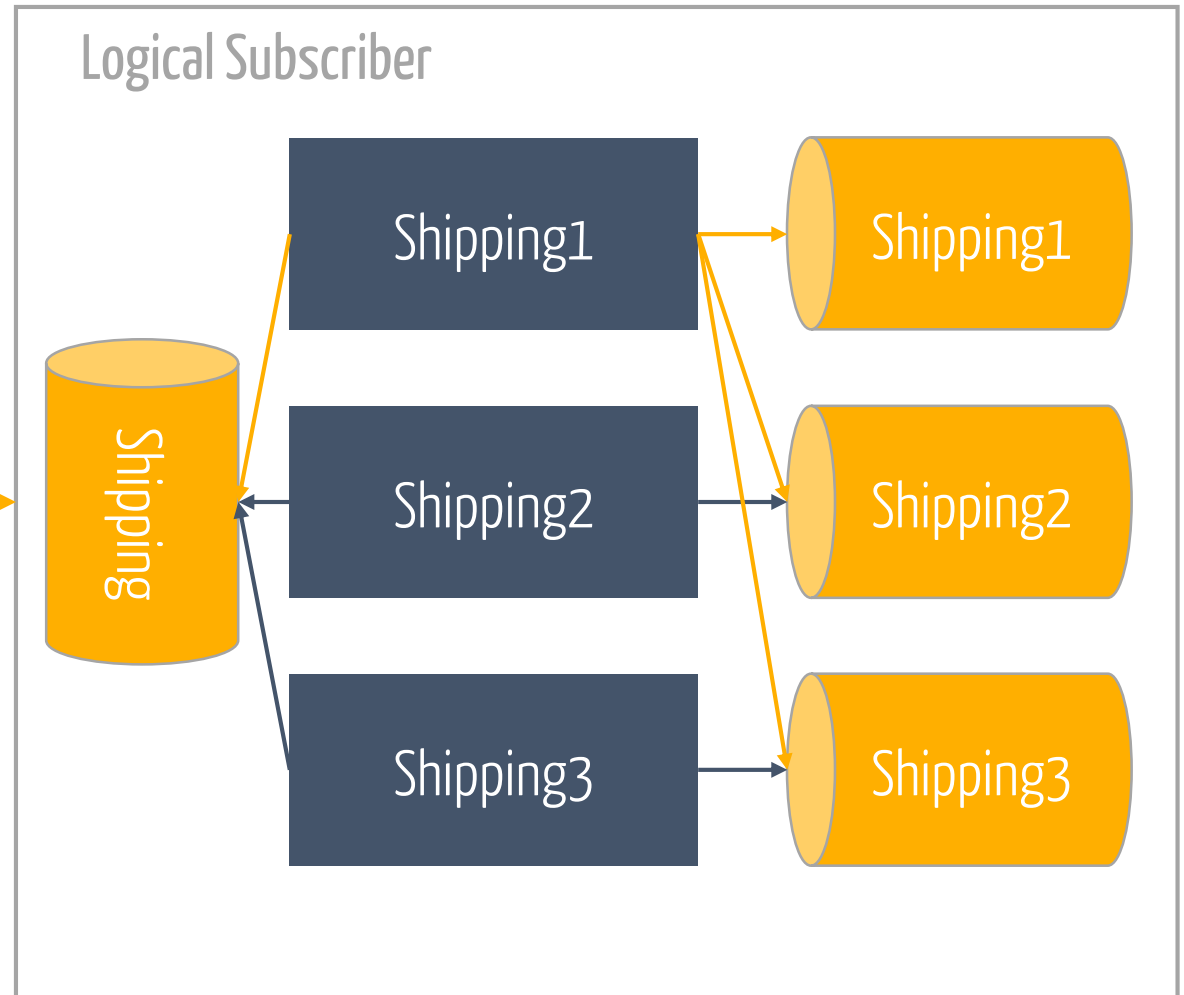


# The PhD dude

acts like a smart ass

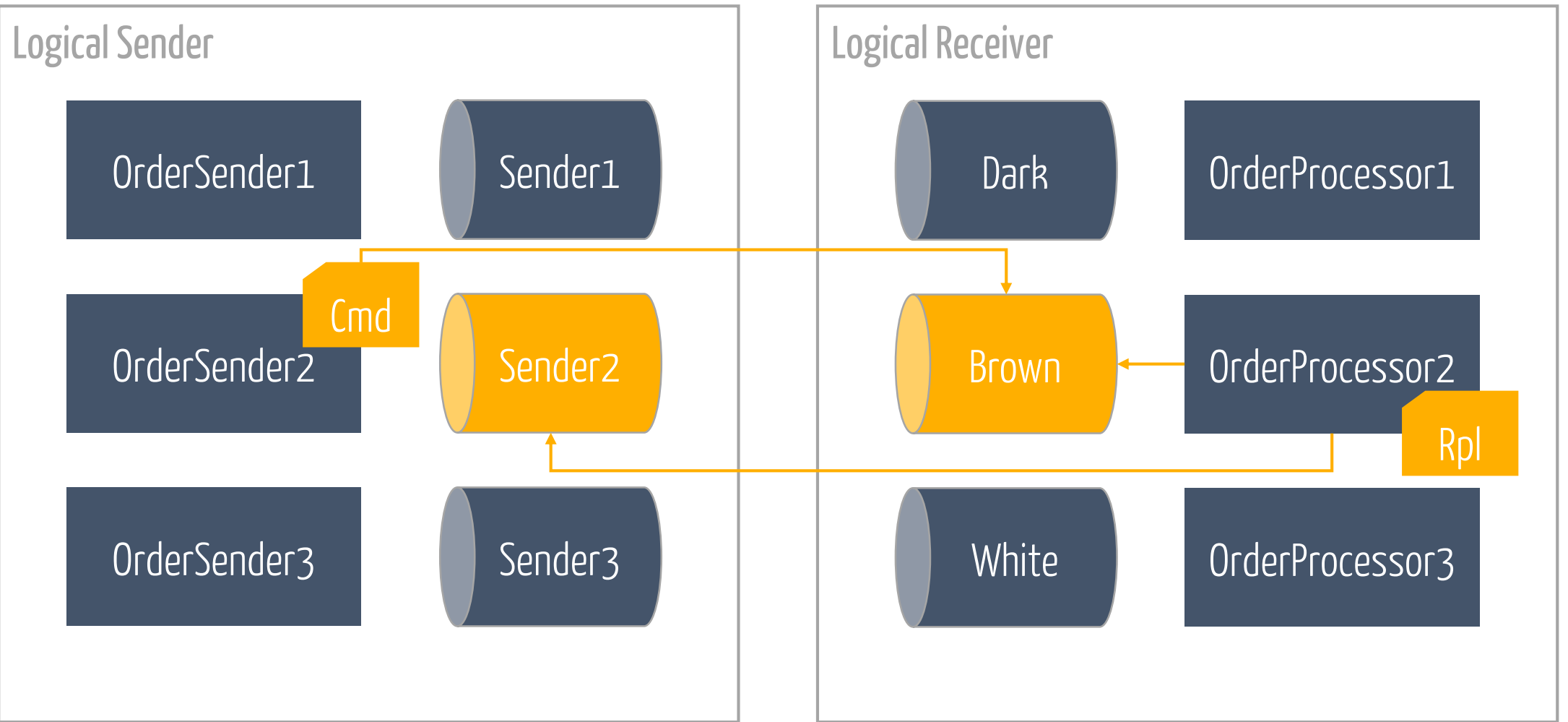
# Events

Different bounded context



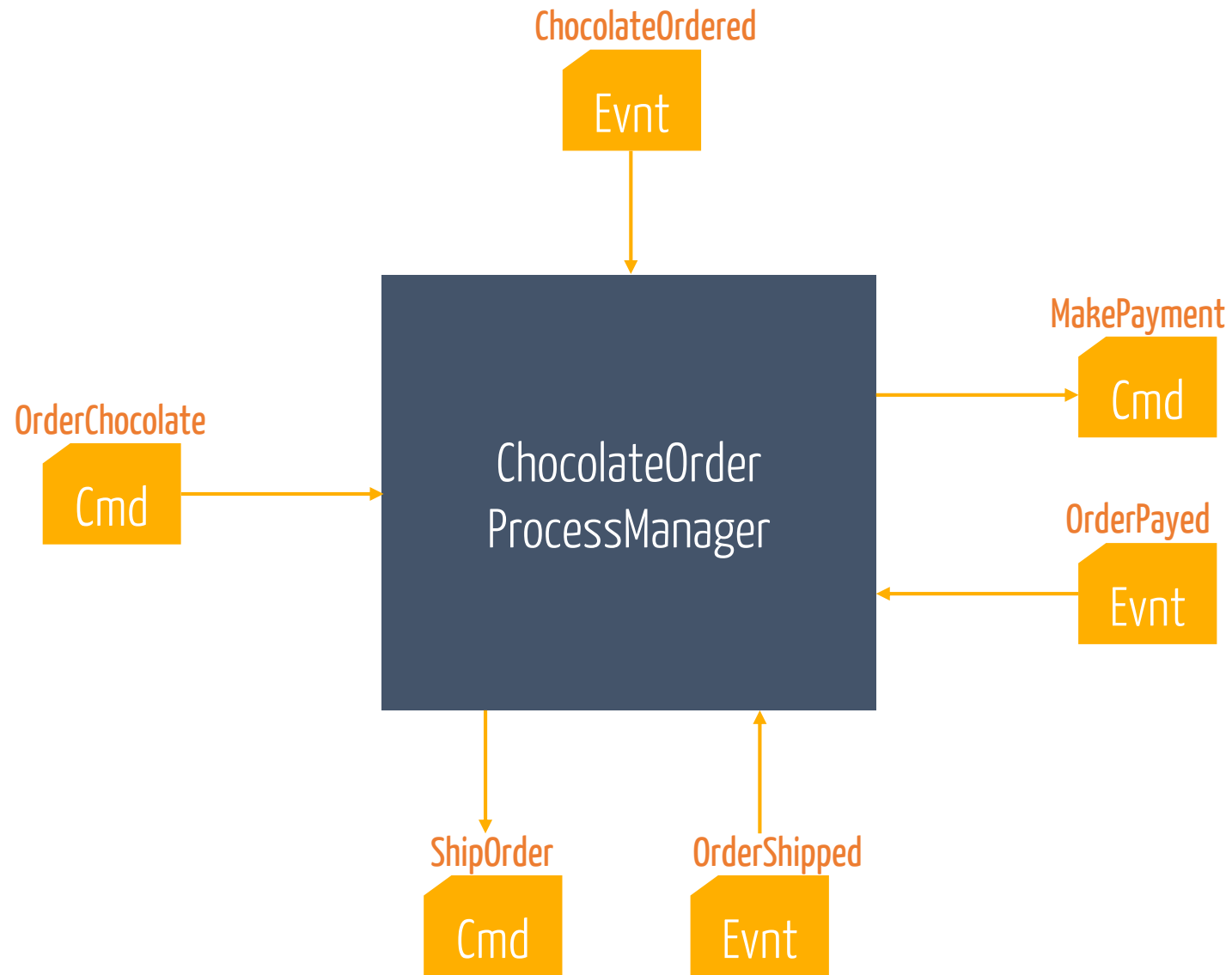
# Receiver Side Distribution

# Request / Reply





# Process Manager



# Demo

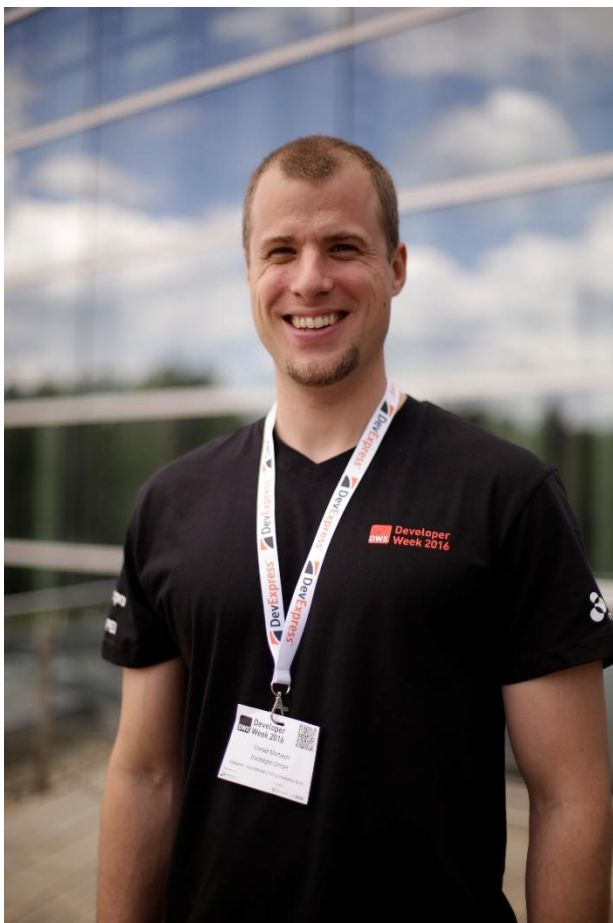
# Recap

reminder

# Slides, Links...

[github.com/danielmarbach/](https://github.com/danielmarbach/Microservices.ServiceFabric)Microservices.ServiceFabric

# Q & A



Software Engineer  
Enthusiastic Software Engineer  
Microsoft MVP

@danielmarbach  
[particular.net/blog](http://particular.net/blog)  
[planetgeek.ch](http://planetgeek.ch)

# Thanks