

# Event streaming applications With Kafka Streams, Spring Kafka and Actuator



Ko Turk  
Developer @



# You will learn

How to:

- Produce / consume messages      --> **spring-kafka**
- Process big data                      --> **kafka-streams**
- Create proper monitoring              --> **actuator**

# WARNING

This meeting will contain live coding,  
so everything could (potentially) go wrong.



The story.....



# IT WAS A NIGHTMARE



TO BE A DEVELOPER (in the 90's)



CORBA



A dark, atmospheric scene featuring a solar eclipse with a bright corona, palm trees, and a chain-link fence.

**SOAP**



A dark, atmospheric hallway with a hospital bed and wheelchair.

REST

but it's slow.....

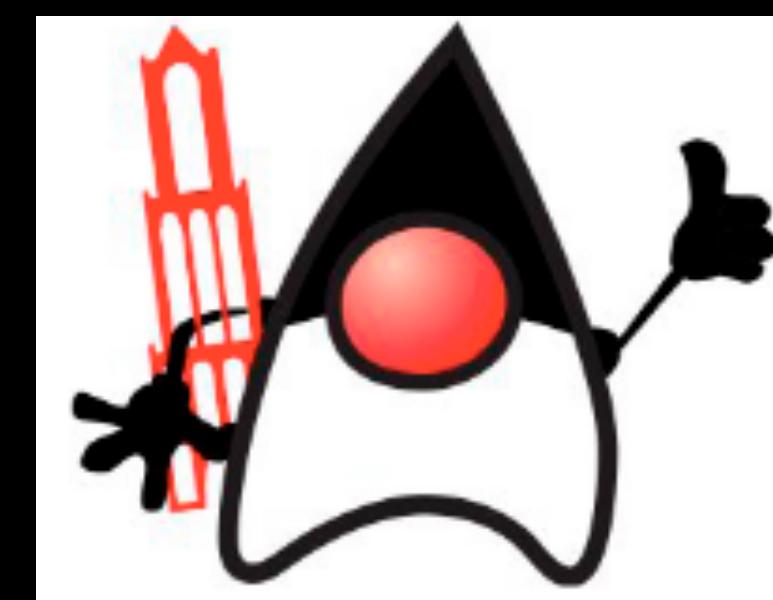
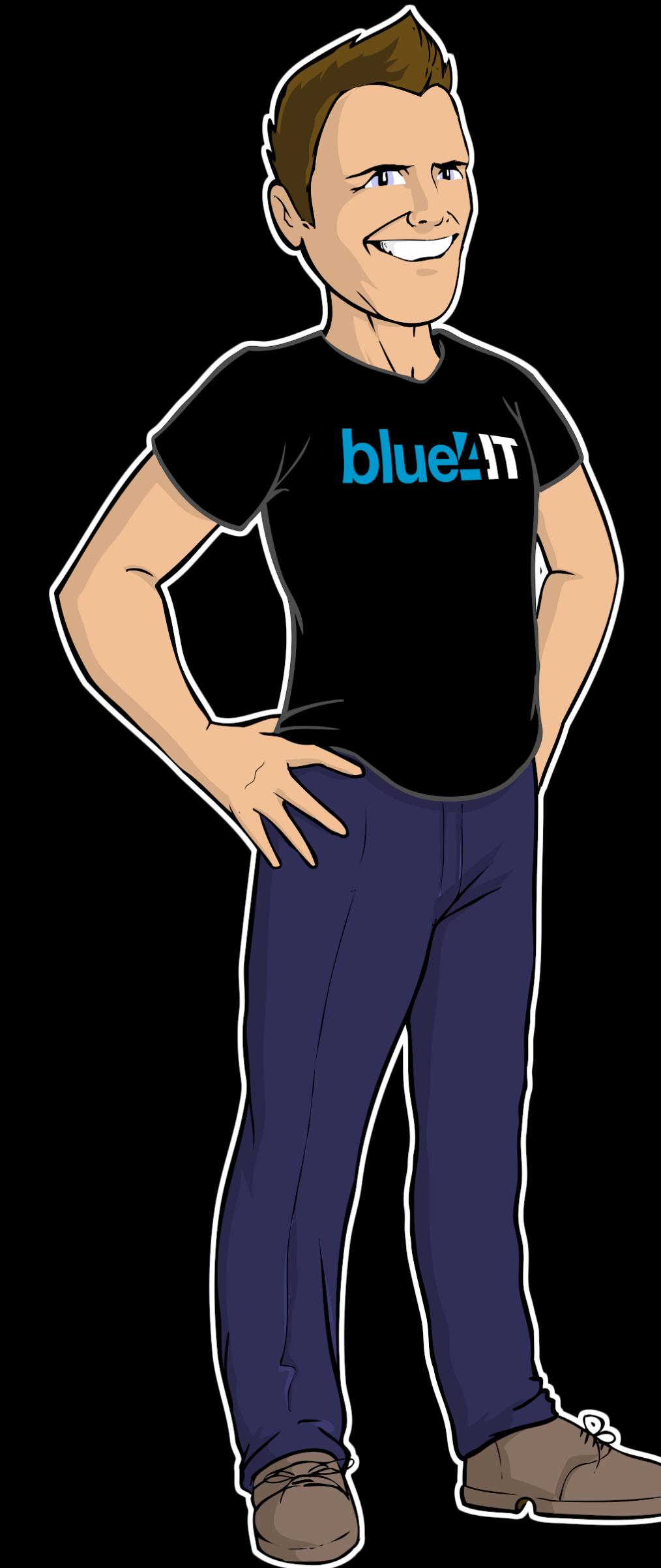


Let's  
With Apache Kafka!  
async

# EVENT STREAMING APPLICATIONS

**With Kafka Streams, Spring Kafka and Actuator**

# MARRIED



@KOTURK77

Who is already using  
Kafka?

but first, why??  
event streaming



EVENTS



A dramatic night scene featuring the Ghost Rider. He is a skeletal figure with a flaming skull head, wearing a black leather jacket and pants. He is riding a black motorcycle with a large chrome sidecar. The sidecar is engulfed in intense orange and yellow flames. The rider is looking directly at the camera with a fierce expression. The background is dark with some foliage visible.

SOMETHING FAST

A dark, moody photograph of a woman with long hair, wearing a white shirt, standing in a doorway. She is holding a large axe over her shoulder with both hands. The background is a textured, possibly stone or concrete wall. The lighting is dramatic, with strong highlights and shadows.

LESS COMPLEX

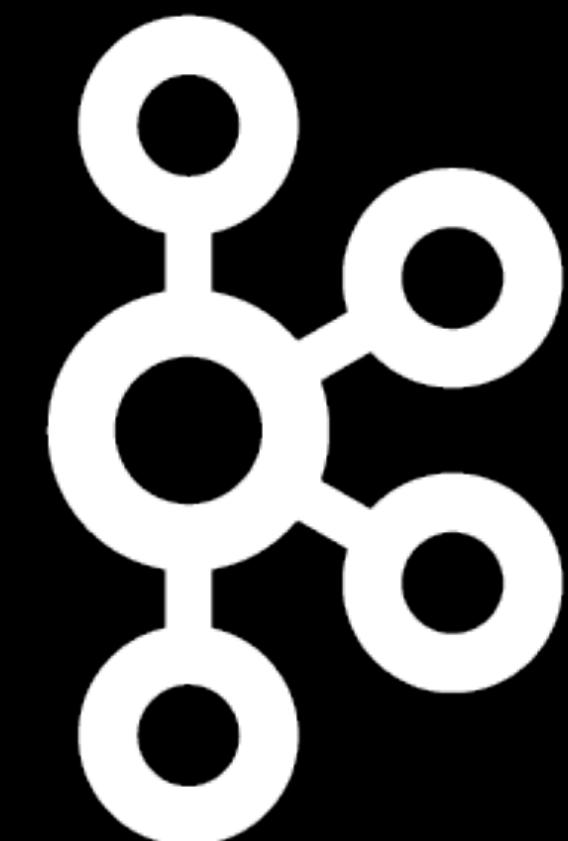


# FAULT TOLERANT



# REPLAYABILITY

For that we have



kafka

# BATCHING

## BATCHING EVERYWHERE

memegenerator.net



# ME STARTING THE DAILY RITUAL

## OF LOOKING FOR THE REMOTE

imgflip.com



# Copy Cat

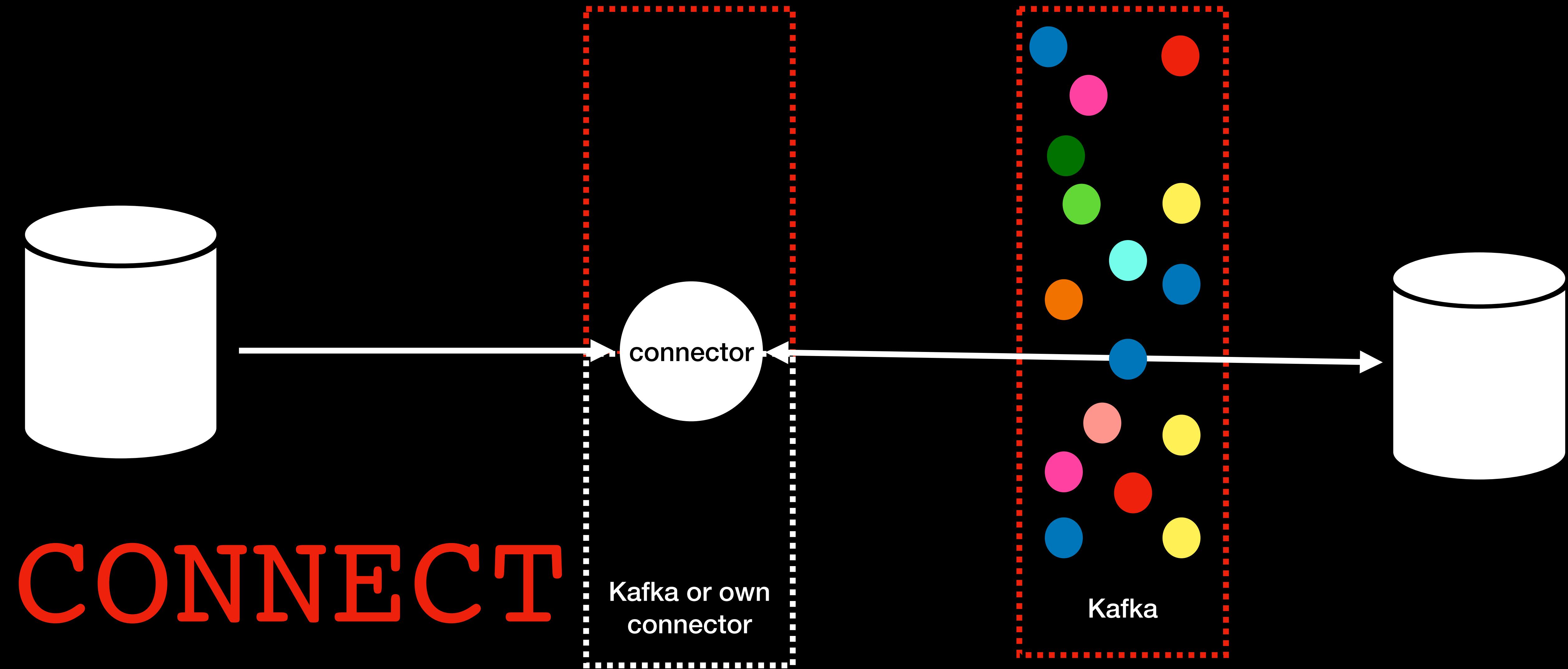


But why not using  
**RABBITMO**

A photograph of three clowns standing side-by-side. The clown on the left has a multi-colored, spiky hairstyle and wears a green and yellow ruffled collar. The clown in the center has a red ruffled collar and a red bow tie. The clown on the right has a red ruffled collar and a red bow tie. They are all wearing white face paint with black eyebrows and noses, and red lips.

THREE FLAVOURS

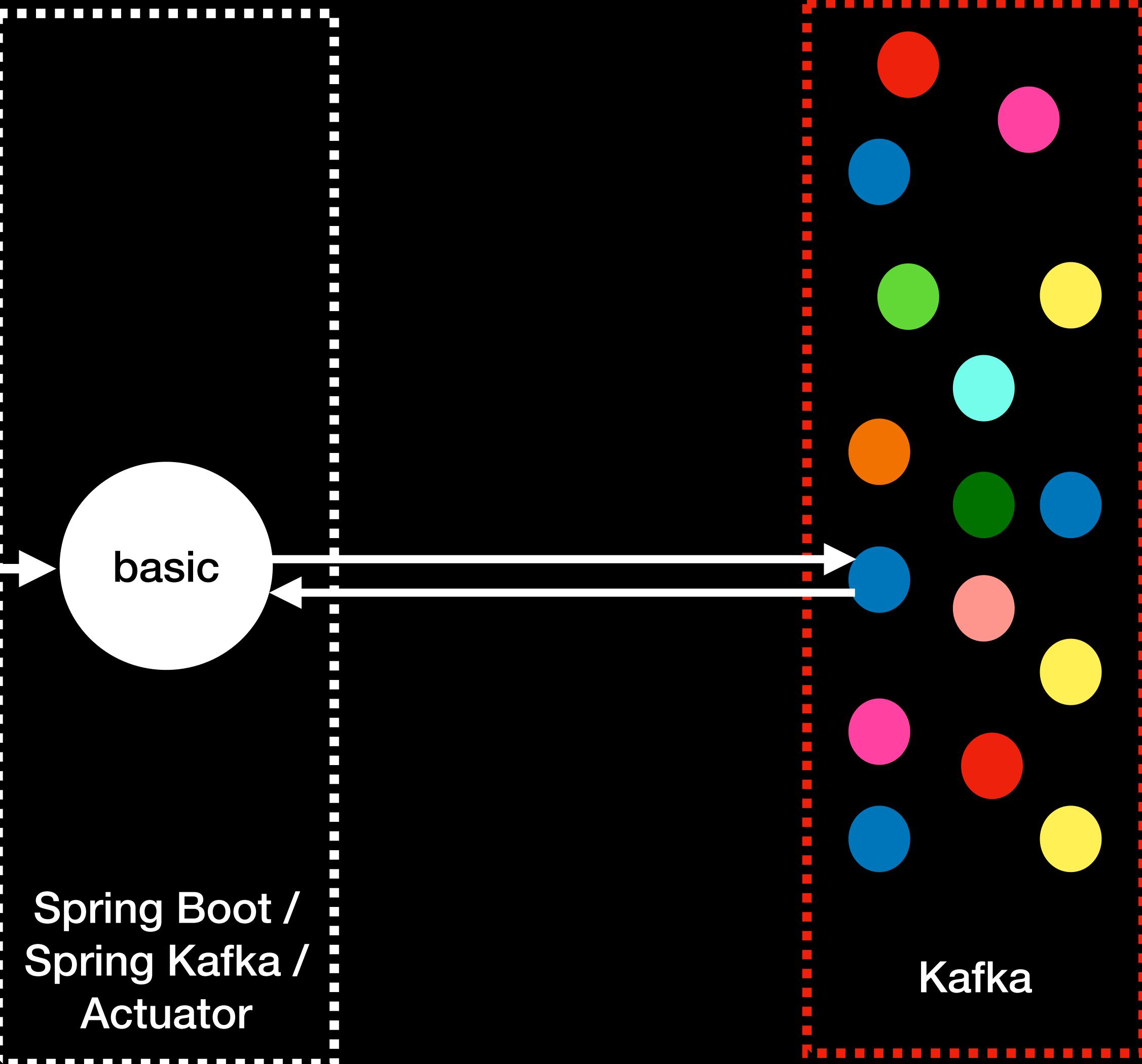
# CONNECT



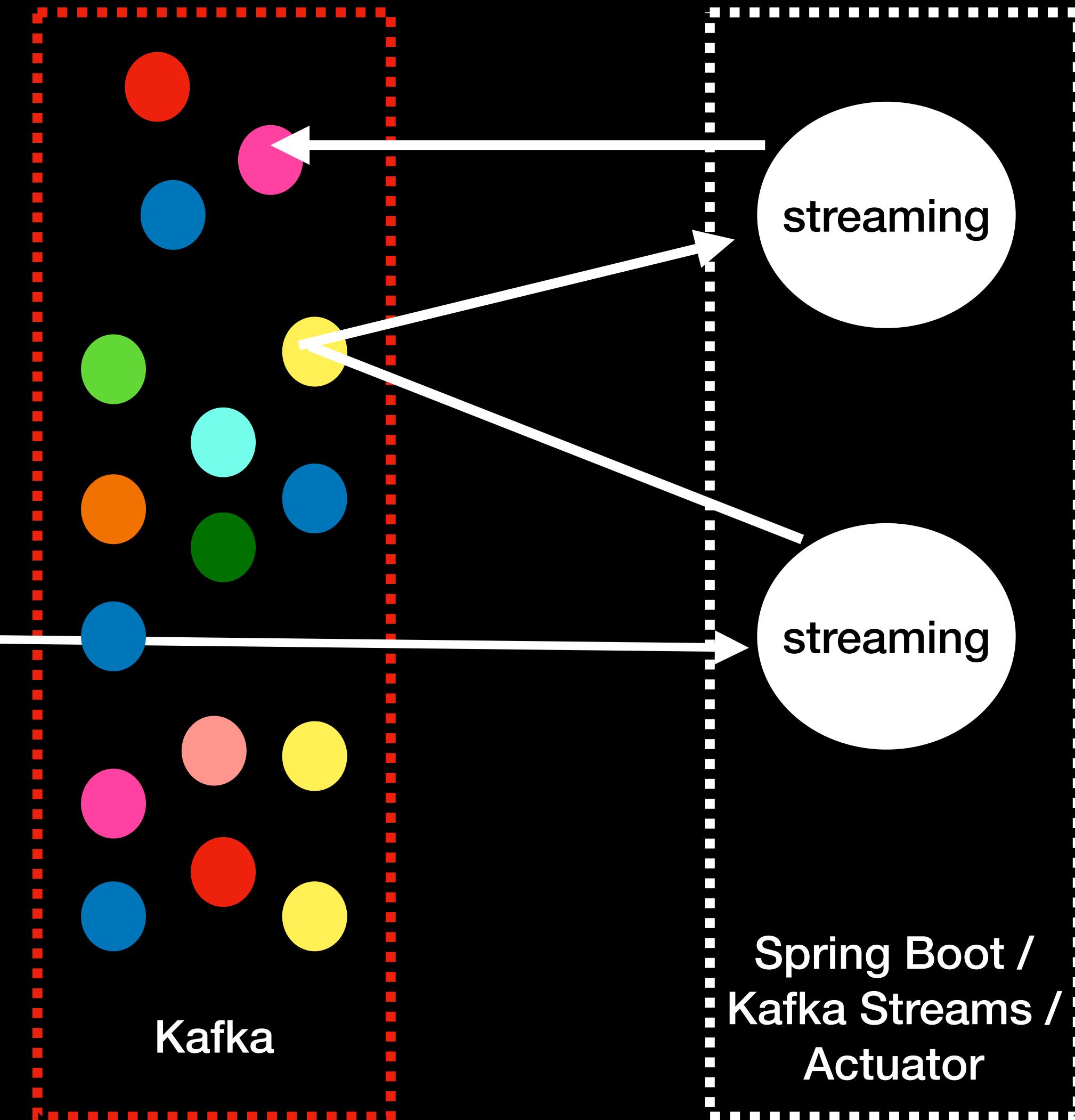
# SIMPLE



rest



# BIG DATA



# LET'S EAT SOME CODE



# You learned

How to use:

- Consumer      -> `@KafkaListener`
- Producer      -> `Kafkatemplate`
- Streams      -> `Streamsbuilder`

Learn to create metrics (actuator)!!

[HTTPS://YOUTU.BE/UNSZKYPAMZC?T=688](https://youtu.be/unszkypamzc?t=688)



Ko Turk



MONITORING

IMAGE FROM:

[HTTPS://RUINMYWEEK.COM](https://ruinmyweek.com)



Thank  
you

Slides + code (branch 'solution'): <https://github.com/KoTurk/Kafka/tree/main/Confluent>  
Follow me at Twitter: @KoTurk77