



JAVA DAY

Istanbul

Event streaming applications

With Kafka Streams, Spring Kafka and Actuator



Ko Turk
Developer @



You will learn

How to:

- Produce and consume messages
- Process big data
- Create proper monitoring

With

- spring-kafka
- kafka-streams
- spring-boot-starter-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.....

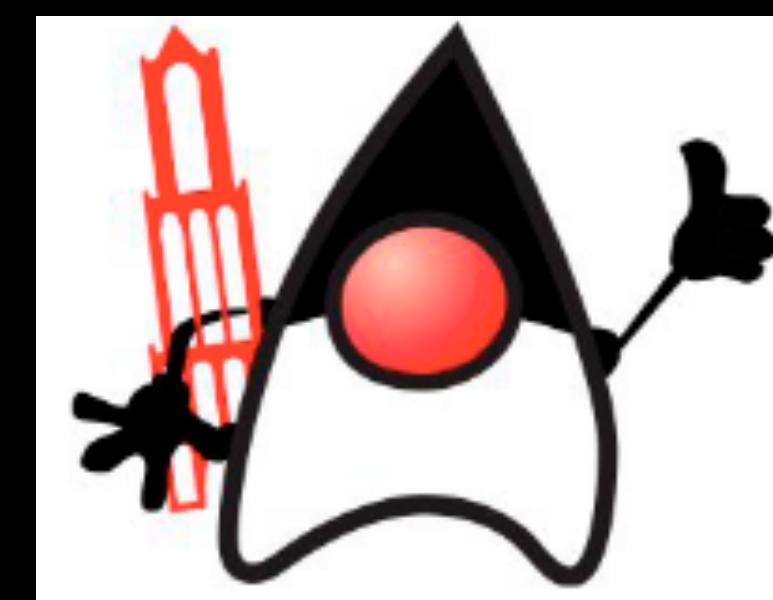
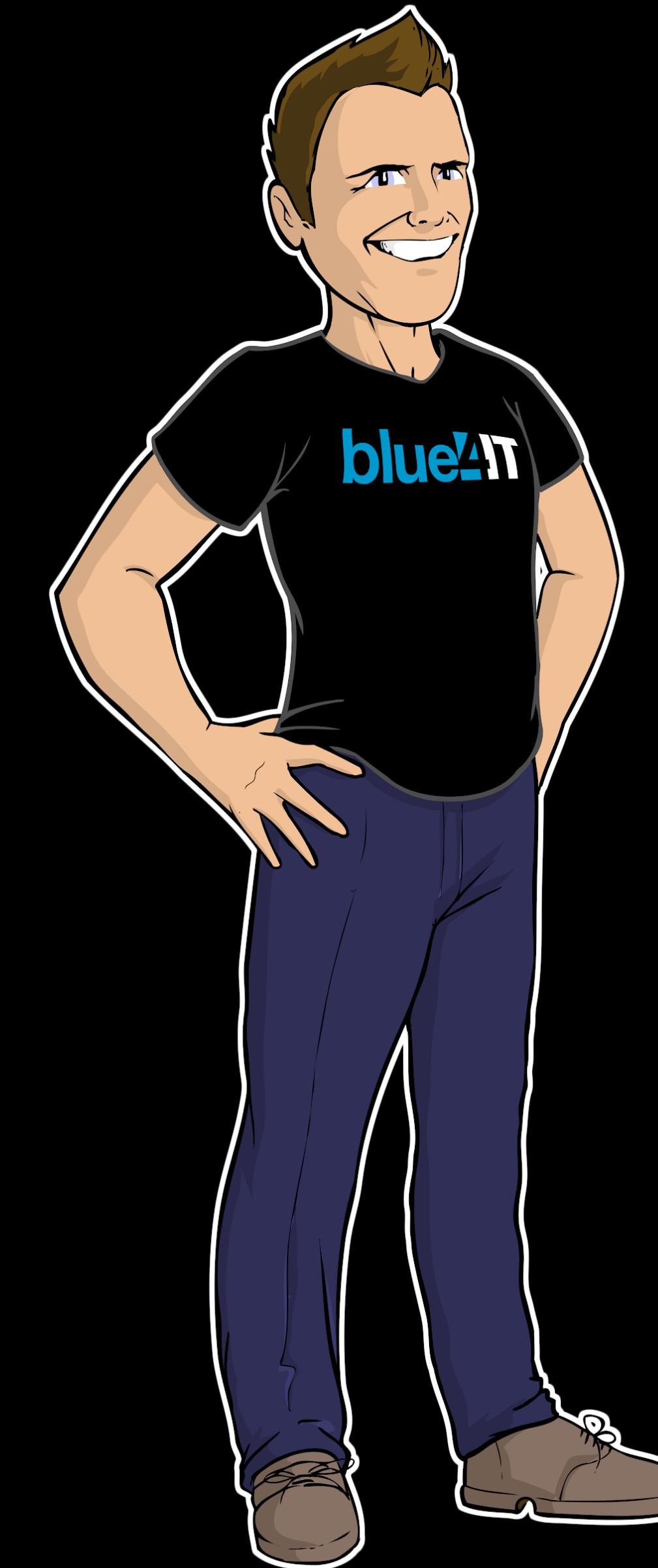


Let's
With Apache Kafka!
async

EVENT STREAMING APPLICATIONS

With Kafka Streams, Spring Kafka and Actuator

MARRIED



@KOTURK77

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 background is dark, with some foliage visible on the left. The overall atmosphere is dark and intense.

SOMETHING FAST



A black and white photograph of a woman with long hair, wearing a dark top. She is holding a large axe over her shoulder with both hands. The background is dark and textured, possibly a wall or doorway. The lighting is dramatic, highlighting the axe and her profile.

LESS COMPLEX

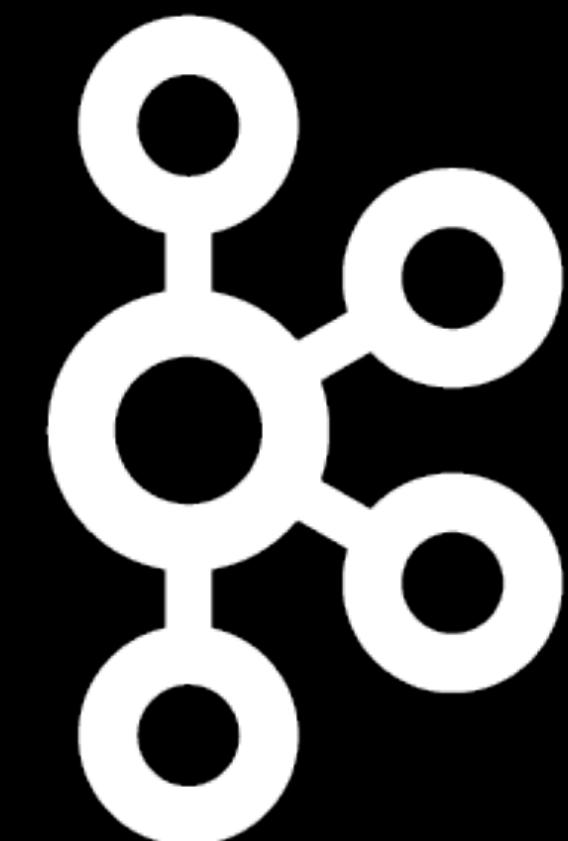


FAULT TOLERANT



REPLAYABILITY

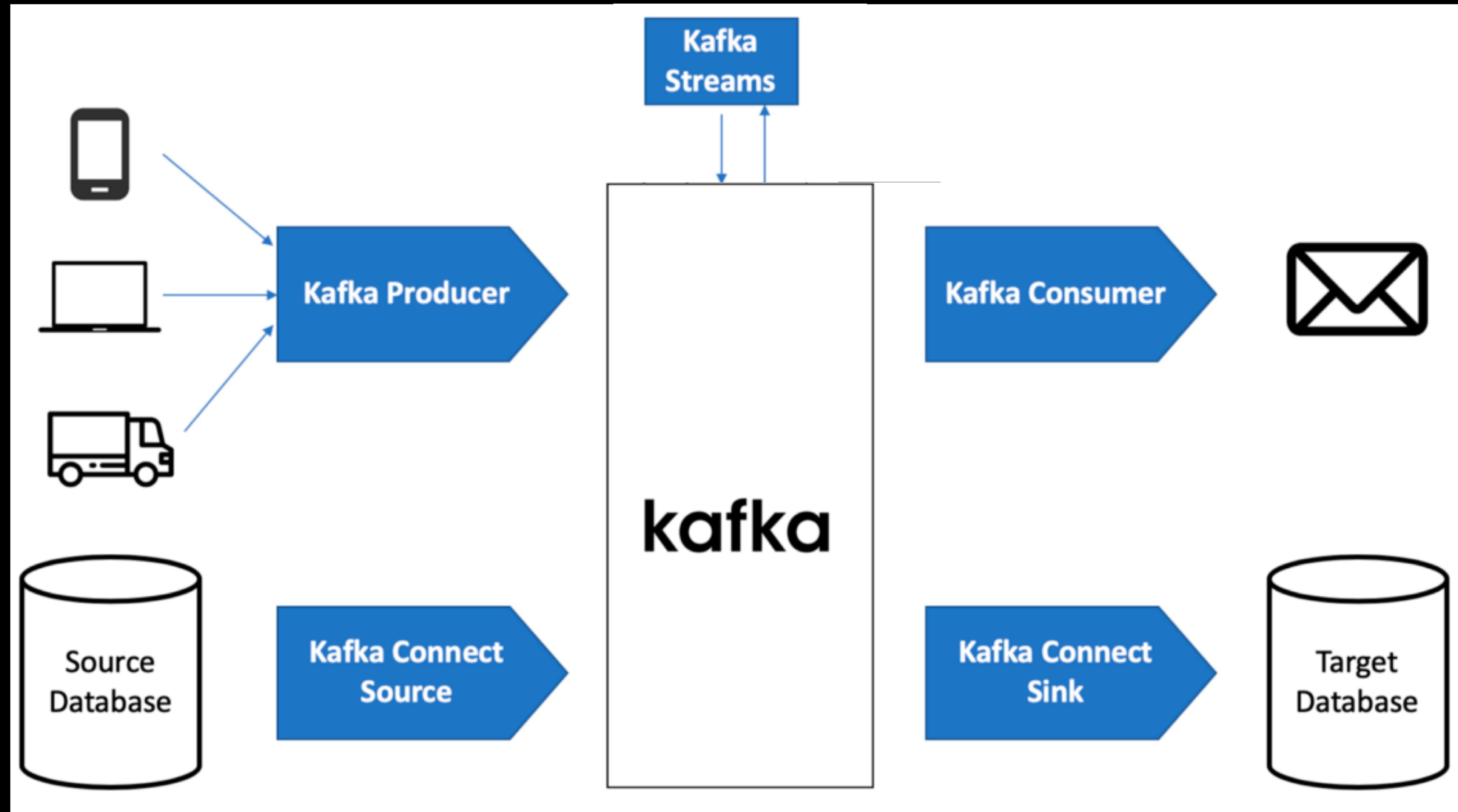
For that we have



kafka

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



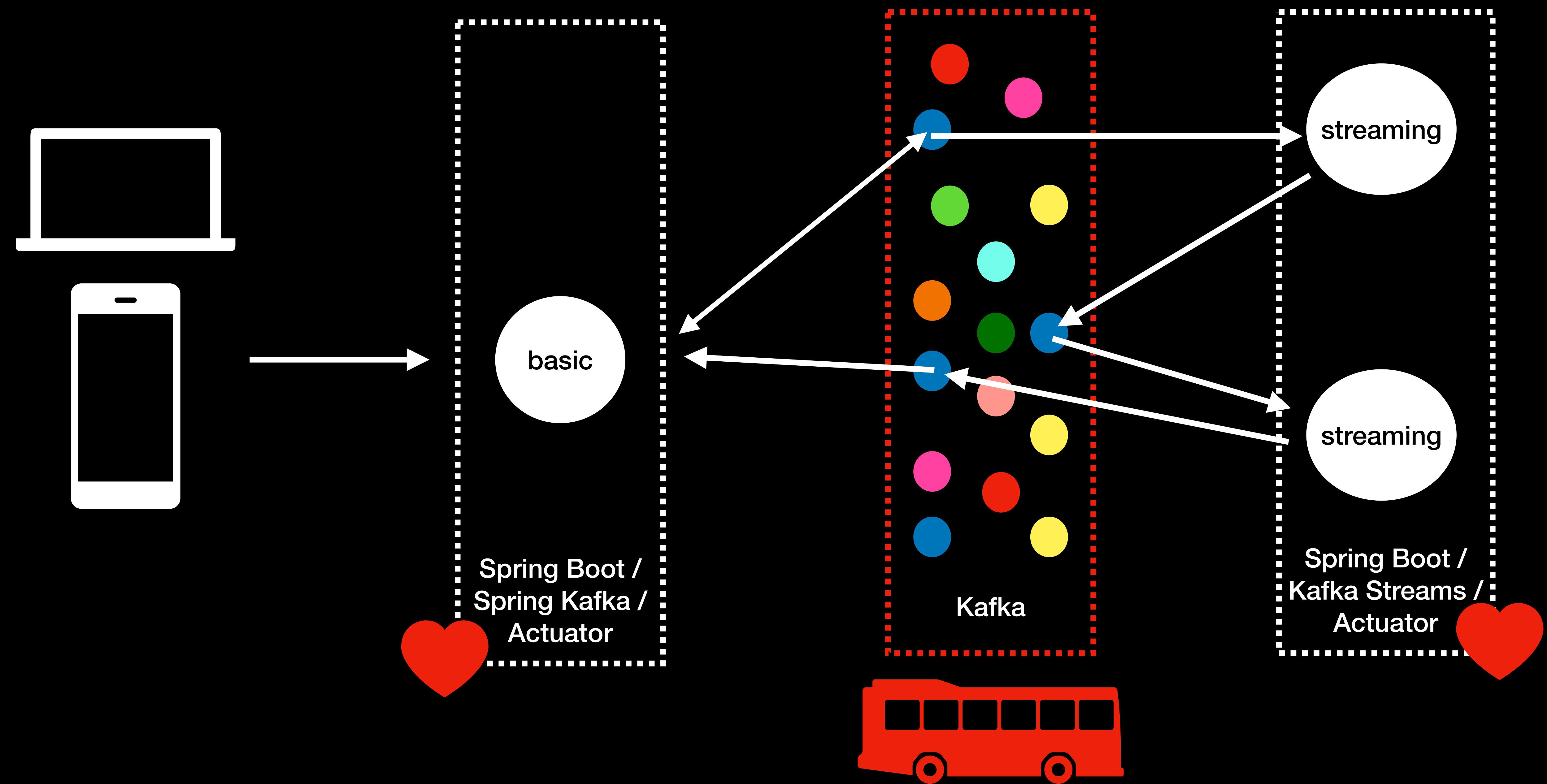
But why not using

RABBITMQ



In a moment

LIVE CODING



LET'S EAT SOME CODE



You learned

How to use:

- `@KafkaListener` -> consumer
- `Kafkemplate` -> producer
- `Streamsbuilder` -> streams DSL

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



Ko Turk



MONITORING

I wish you a pleasant day
at



All the slides and the code will be at:

<https://github.com/KoTurk/Kafka/tree/main/JavaDayIstanbul/>

Please follow me at Twitter: @KoTurk77