



Event streaming applications With Kafka Streams, Spring Kafka and Actuator



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You will learn

How to:

- Produce / consume messages --> spring-kafka
- Streaming 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

SOAP



REST

but it's slow.....



Let's do async

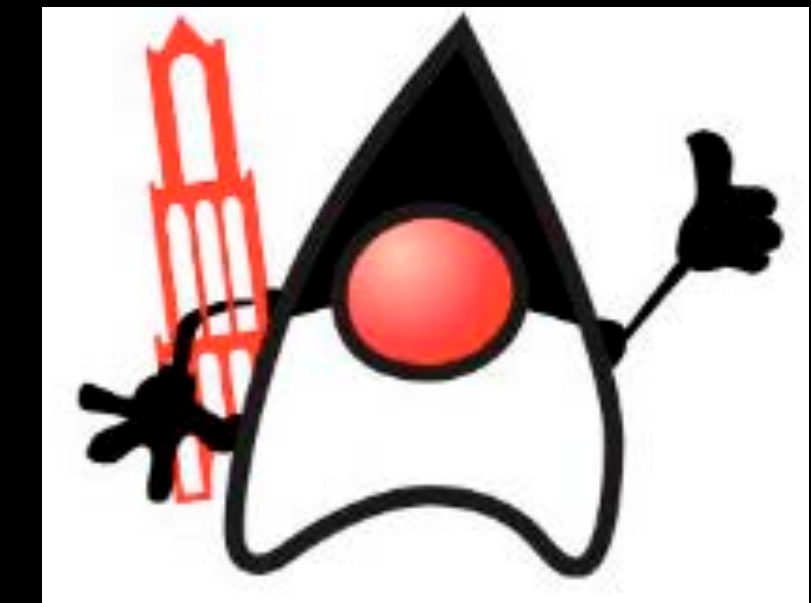
With Apache Kafka!

EVENT STREAMING APPLICATIONS

With Kafka Streams, Spring Kafka and Actuator

MARRIED

WITH
CHILDREN



@KOTURK77

but first, why???

event streaming

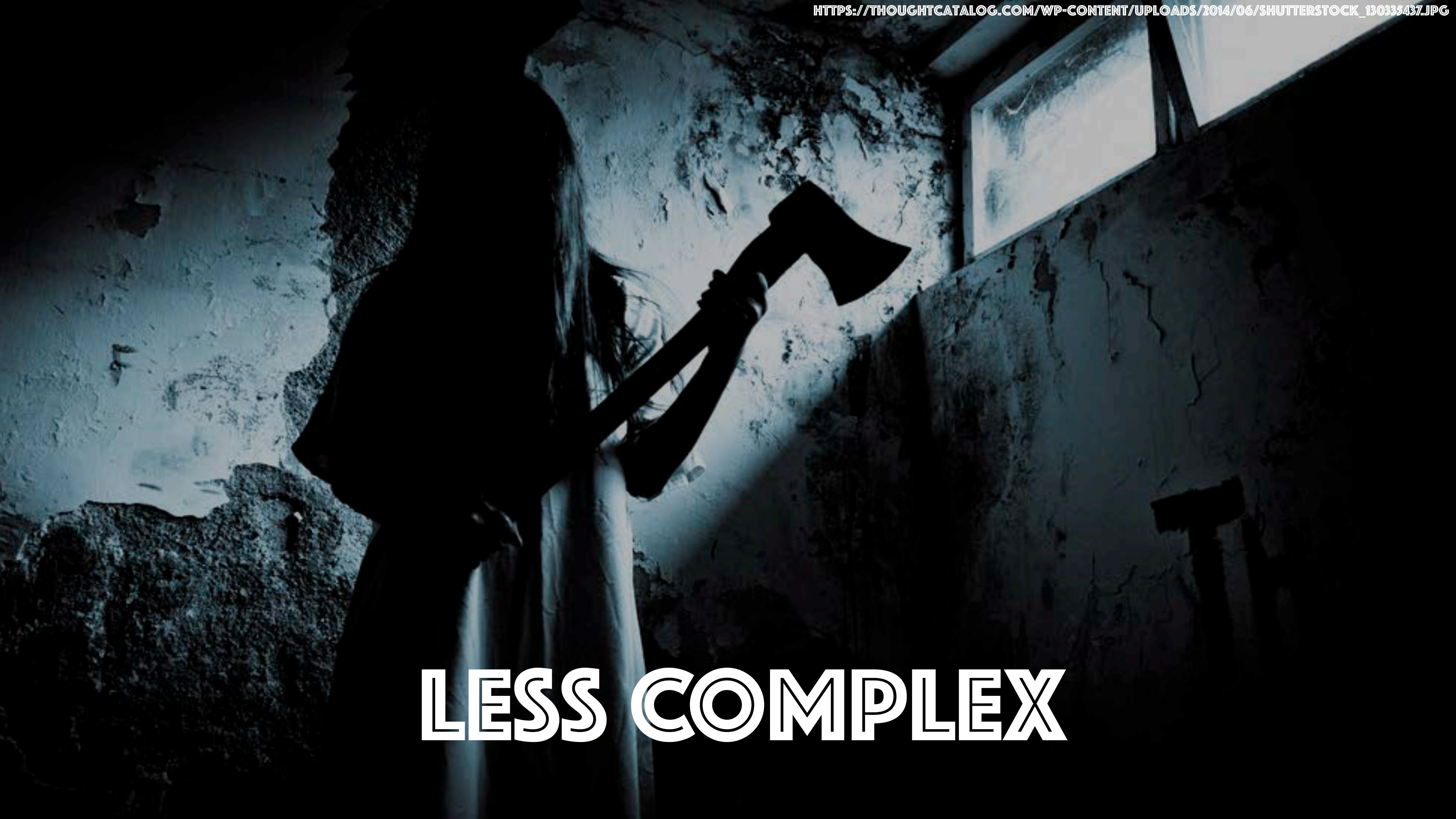


EVENTS



A full-page image of Ghost Rider, a character with a flaming skull, riding a motorcycle at night. The character is wearing a black leather jacket and has flames coming out of his skull and hands. The background is a dark, wooded area with a large, dark, hood-like shape in the distance. The text "SOMETHING FAST" is overlaid at the bottom in a large, white, bold, sans-serif font.

SOMETHING FAST

A person with long hair, seen from the side, is holding a large, dark axe. They are standing in a dark, dilapidated room with peeling walls and a window in the background. The lighting is dramatic, with strong shadows.

LESS COMPLEX



FAULT TOLERANT



REPLAYABILITY

For that we have





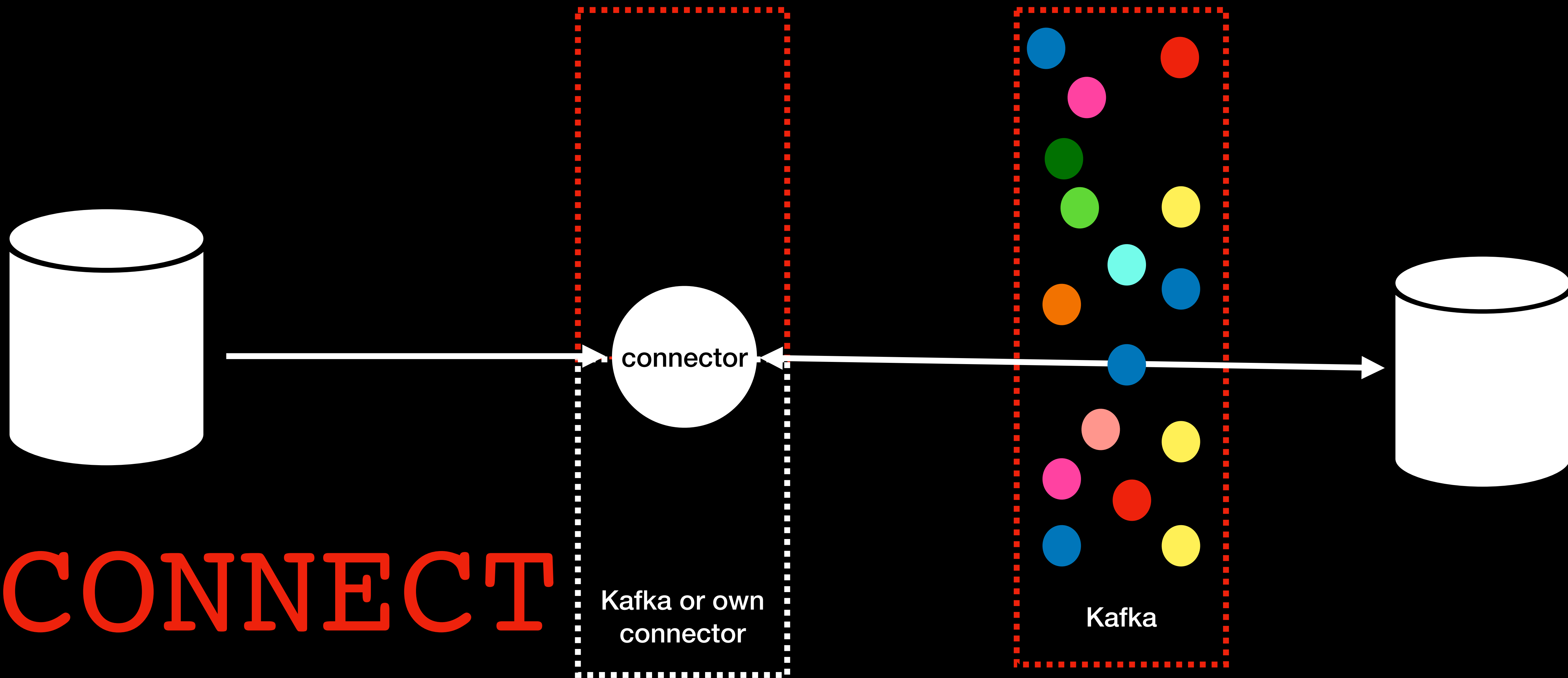
But why not using

RABBITMQ



Three clowns from the movie 'It' are shown from the chest up. The clown on the left has a yellow and orange flame-like wig, blue face paint, and a large green and yellow collar. The clown in the center has a red pointed collar, a large red nose, and a wide, toothy grin. The clown on the right has a red spiky wig, blue face paint, and a red and blue striped outfit. The text 'THREE FLAVOURS' is overlaid in white, bold, sans-serif font across the middle of the image.

THREE FLAVOURS





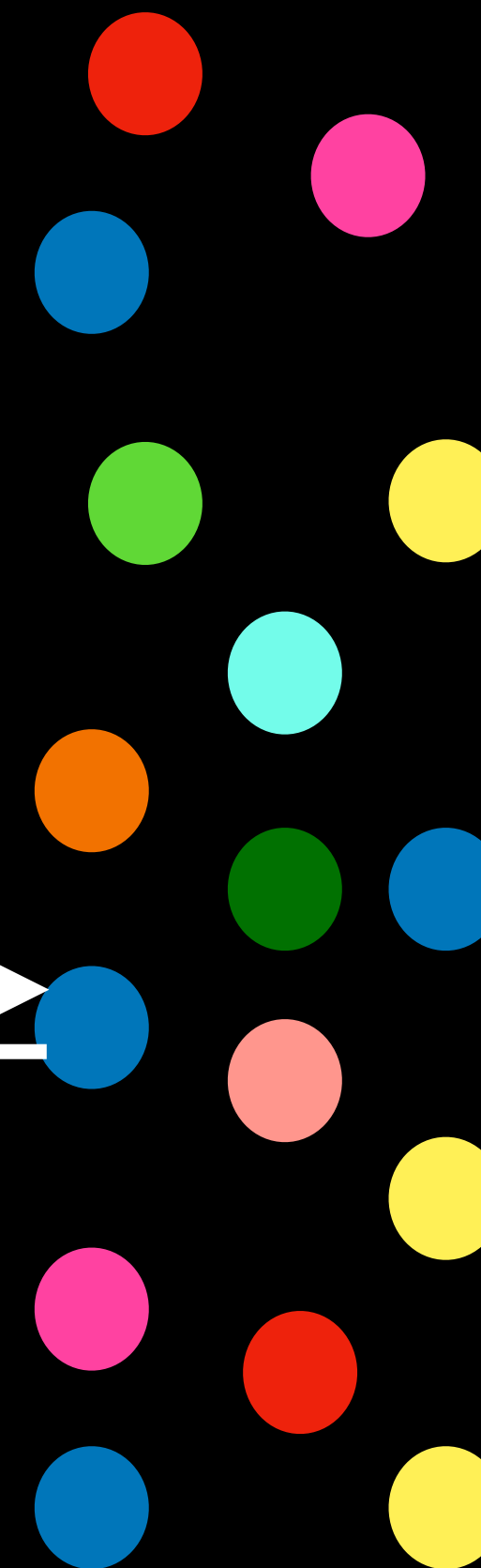
rest

SIMPLE

basic

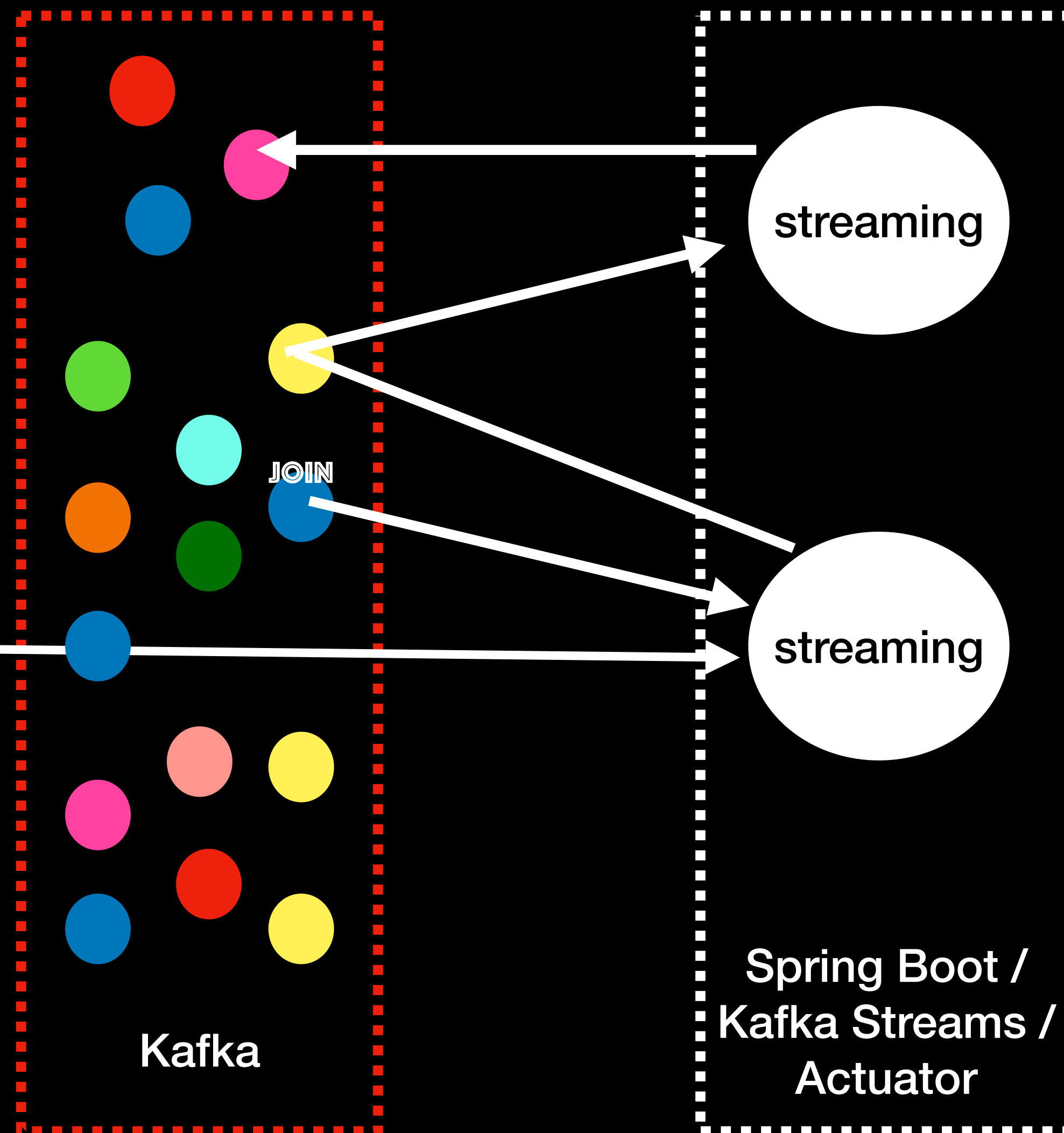
Spring Boot /
Spring Kafka /
Actuator

Kafka





BIG DATA



Go to www.menti.com and use the code 9401 1026



And now, I need you!

LET'S EAT SOME CODE



You learned

How to use:

- Consumer -> `@KafkaListener`
- Producer -> `KafkaTemplate`
- Streams -> `StreamsBuilder`

Learn to create metrics (actuator)!!

REFERENCES

for more fun

- spring-kafka
<https://docs.spring.io/spring-kafka/docs/current/reference/html/#preface>
- kafka-streams
<https://developer.confluent.io/tutorials/>
- spring-boot-starter-actuator
<https://youtu.be/UNszkYpaMZc?t=688>

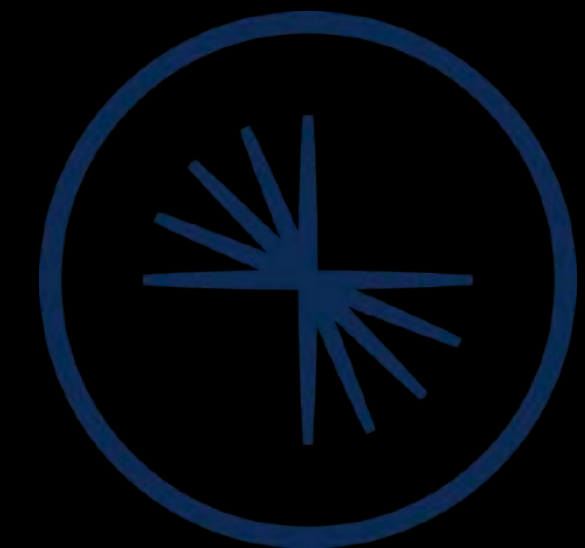


IMAGE FROM:
[HTTPS://RUINMYWEEK.COM](https://ruinmyweek.com)



Thank
you

Slides + code: <https://github.com/KoTurk/Kafka/tree/main/DelhiJUG>

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