

DON'T CALL ME FRONTEND FRAMEWORK!

a quick ride on

AKKA.JS

WHO AM I?



NOKIA

- GitHub [andreaTP](#)
- Twitter
[@and_prf](#)







AKKA.JS

HOW DOES IT WORK?

- compiler plugins
- java std lib
- reflection
- IR patches
- ...

WHO CARES?

WHY SHOULD I CARE?

WHY NOT?

BE SERIOUS

KEEP RIDE ACTORS ON JS!!!

EXERCISE:

A fullstack POC for Twitter streaming service.

BACKEND

project configuration

BACKEND ARCHITECTURE

- WebSocketServer -> Actor
- WebSocketChannel ->
Actor
- TwitterService -> Actor

BACKEND ARCHITECTURE

- WebSocketServer -> Actor -> **Node Websocket**
- WebSocketChannel -> Actor -> **Testkit!**
- TwitterService -> Actor -> **Node Tweet Stream**

LESSONS LEARNED

- Concepts separation
- Callback hell
- Free concurrency isolation

in ~150 LOC :-)

FRONTEND

project configuration

FRONTEND ARCHITECTURE

- UI -> Dom -> Actors
- WebSocketChannel -> Actor ->
Stream

FRONTEND ARCHITECTURE

UI

- UIActor
 - NavBarActor
 - TrackerActor
 - CarouselActor

FRONTEND ARCHITECTURE

WEBSOCKETCHANNEL

~> WebSocket

~> Stream

~> UIActor

LESSONS LEARNED

- Same programming model
- Reusability
- Free framework features

in < 300 LOC :-)

A FEW WORDS ABOUT AKKA.JS

IT'S AKKA!

LOC STATISTICS

- Akka shared ~ 24741
- Akka JS ~ 3962
- Akka Stream shared ~
30653
- Akka Stream JS ~ 1238

WHAT NEXT?

- Remote
- JS interop
- Performance
- Typed
- ...

THANK YOU!

and remember, you can help! :-)

<https://github.com/akka-js/akka.js>