elixir

TRY SOME ELIXIR

An introduction.

- Created by José Valim
- v1.0.0 released Sept 2014
- Runs on the Erlang VM
  - Stable VM, already ready for concurrency.
  - Processors aren't getting faster, but many more cores.

- Functional language running on the Erlang VM
- Ruby style syntax
- Pipes (F# style)
- Modern tooling (think Rails)
- Behaviours (similar to Java interfaces)
- Macros (clojure style)
- Protocols (polymorphism)

ERLANG

- Created by Joe Armstrong, Mike Williams and Robert Virding in 1986 at Ericsson.
- Built for scalable, distributed, fault tolerant, soft realtime systems.
- Ericsson AXD301

So what do we get from Erlang?

- Actor Model
  - Concurrency
  - Scalability
- Fault Tolerance
- Open Telecom Platform (OTP)
- Mature VM

Open Telecom Platform

Erlang, the movie:
https://www.youtube.com/watch?v=xrIjfIjssLE

Hello Mike
Hello Joe

Hello Mike
Hello Joe
Hello Robert

.. conf call crashes on 4th entry.

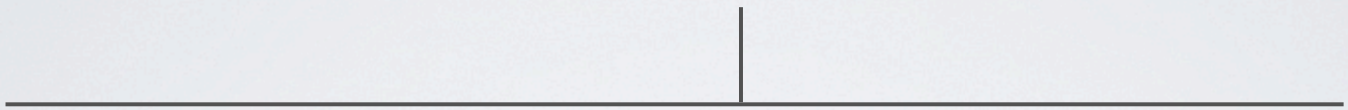
Hello Mike
Hello Joe

elixir

Open Telecom Platform

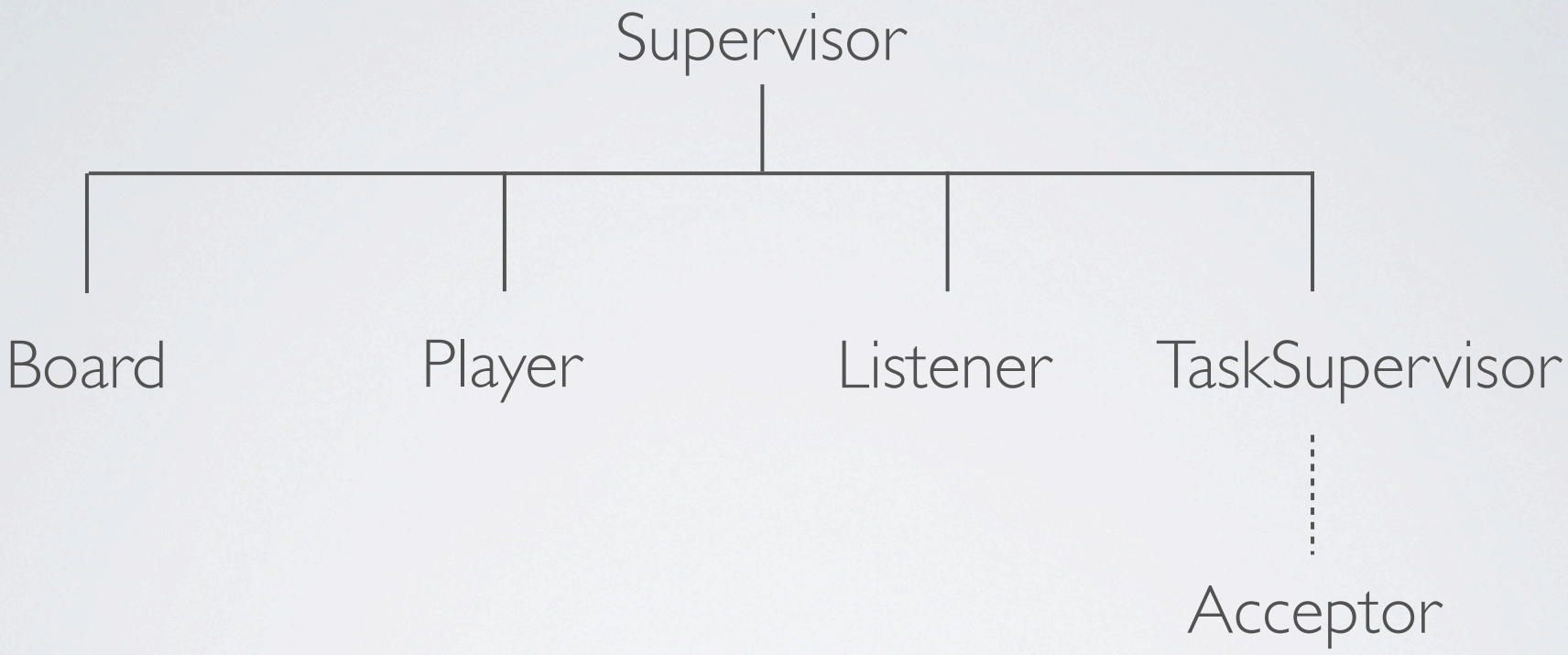
GenEvent

Supervisor



Agent GenServer Task

State

elixir

OTP Adventure Game!