

Elixir |> BEAM() == ❤

About me

- Backend developer at Toggl Plan
- Developing since 2008
- Elixir for 2,5 years
- Fresh dad
- github.com/kelvinst



About Erlang

- Created by Ericsson
- More than 30 years old
- Prolog like syntax
- Concurrent and functional
- Run on BEAM



About Elixir

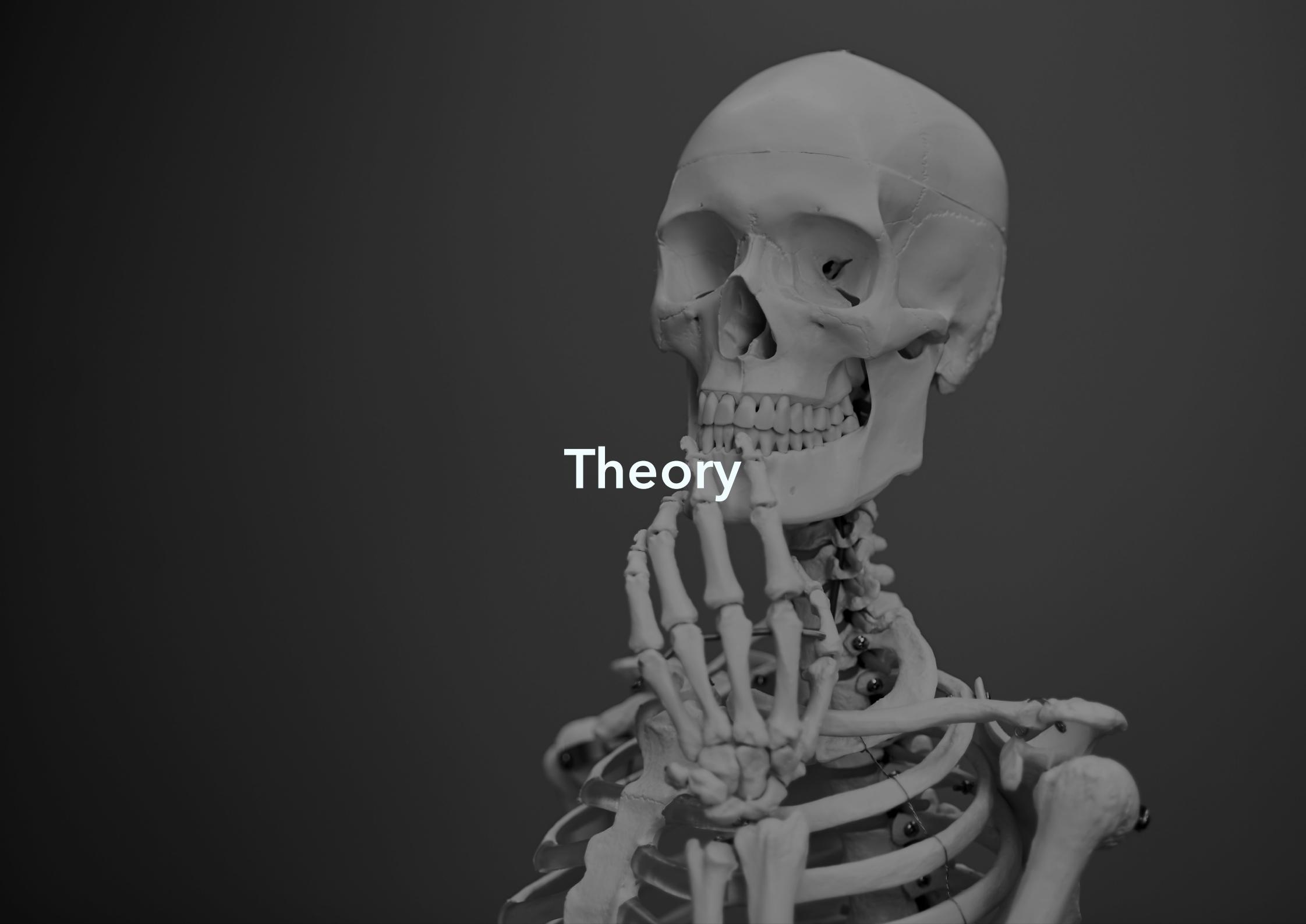
- Created by a brazilian (José Valim)
- Just 9 years old
- Ruby like syntax
- Concurrent and functional
- Run on BEAM



About BEAM

- Erlang's "VM"
- Distributed
- Fault-tolerant
- Highly-available
- Zero-downtime deploys

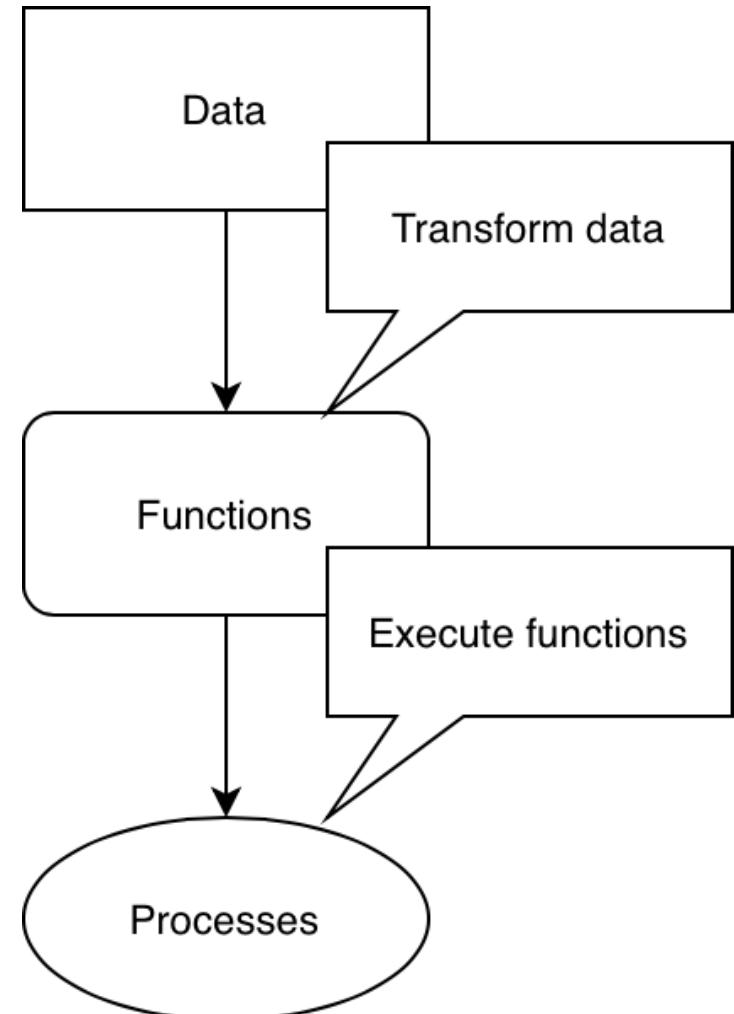


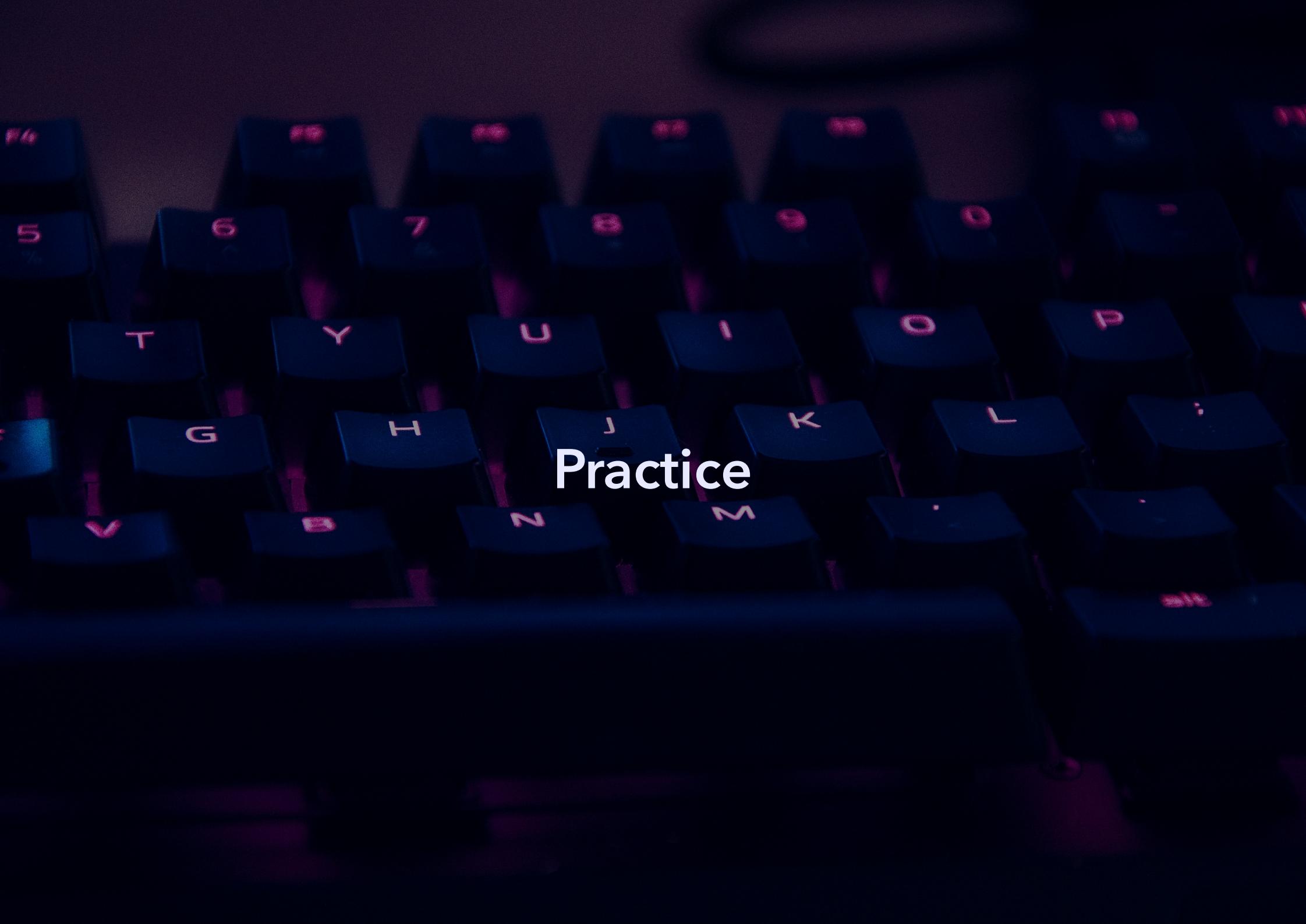


Theory

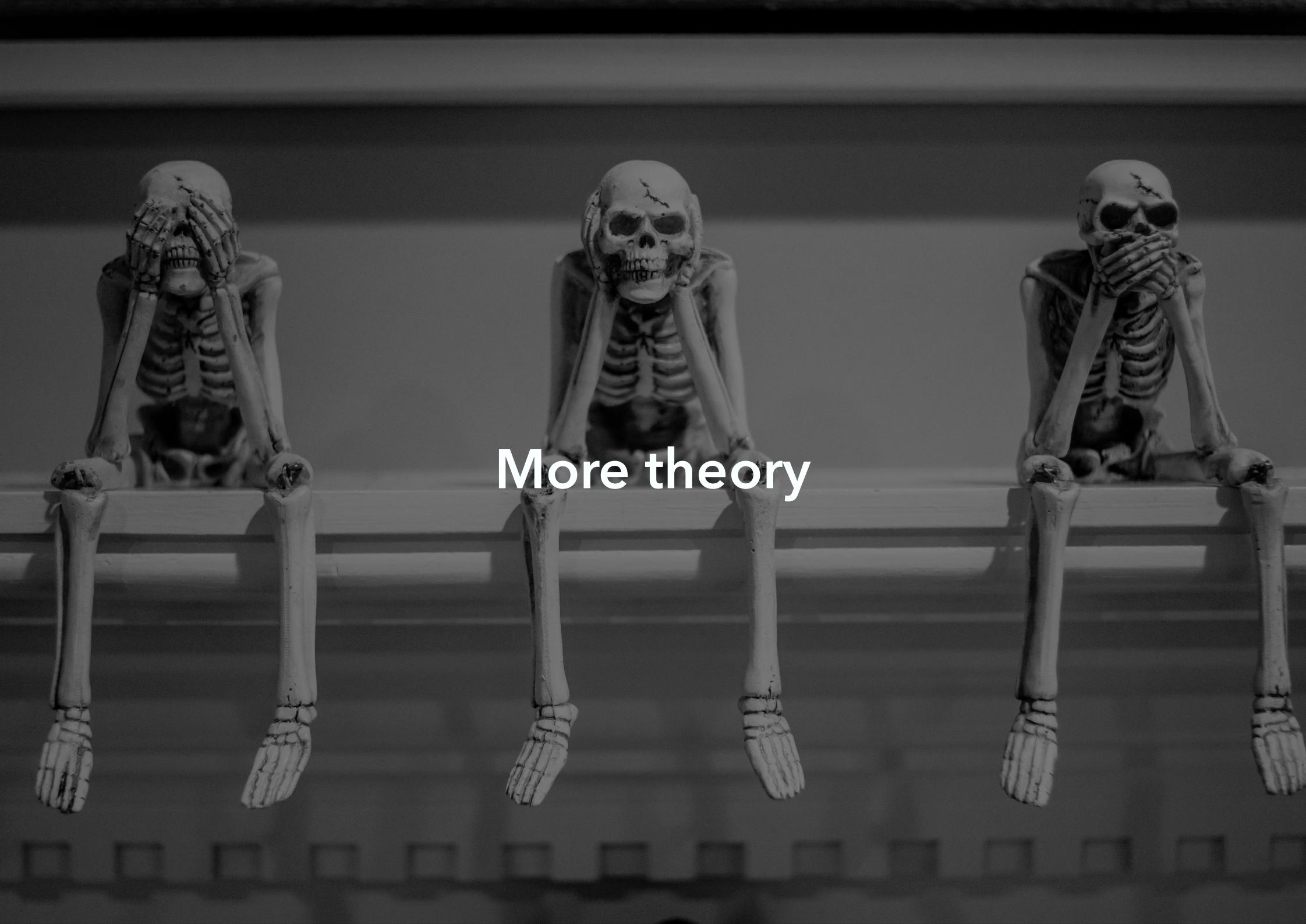
Base

- Data
 - Simple types
 - Immutable
- Functions
 - Gets data through parameters
 - Always return something
- Processes
 - Gets the function and the data to run
 - Executes it and dies





Practice

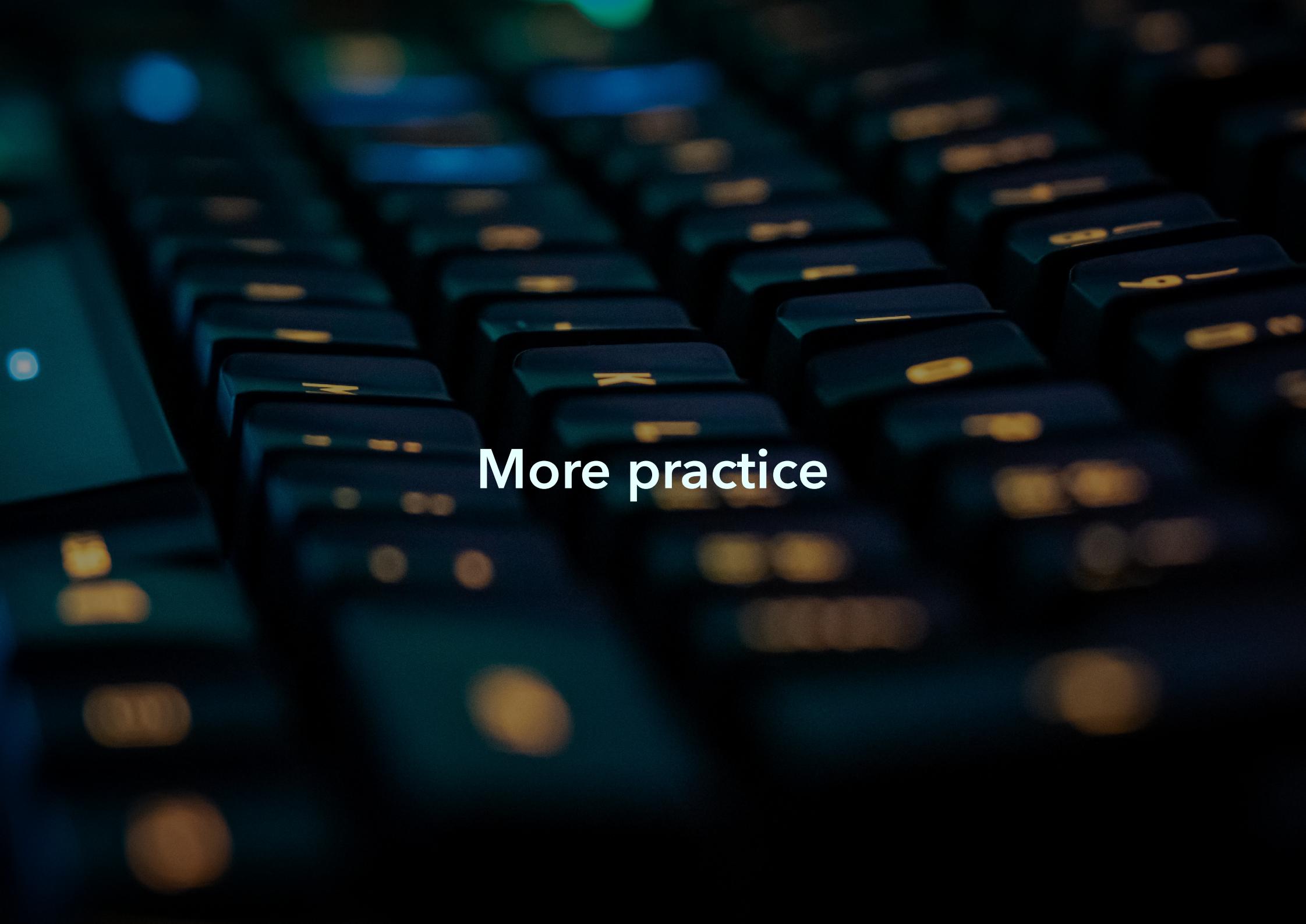
A dark, atmospheric photograph featuring three human skeletons sitting at a long table. The skeleton on the left has its hands over its eyes. The middle skeleton is looking directly forward. The skeleton on the right has its hands over its mouth. They are all leaning forward with their forearms resting on the table. The background is dark and out of focus.

More theory

Processes

- Everything is a process
- Concurrent
- Lightweight
- Have unique names
- Interact through messages
- Know the name? Can send messages
- Share-nothing
- Strongly isolated
- Do what they need to do or fail
- Error handling is non-local





More practice



Demo



"If Java is 'write once, run anywhere', then Erlang is 'write once, run forever'." - Armstrong, Joe - RIP



That's all Folks!

Got interested? Start here: elixir-lang.org/getting-started

Demo repo: github.com/kelvinst/market_umbrella