GETTING STARTED

SLIDES ON GITHUB¹

¹https://github.com/Zeeker/talks

WHAT IS ELIXIR?

Elixir is a dynamic, functional language designed for building scalable and maintainable applications.

- elixir-lang.org

Elixir is young and immature!

- Some grumpy old programmer

ELIXIR IS RUNNING ON THE ERLANG VM

ALSO CALLED BEAM

WHY IS THAT IMPORTANT?

ERLANG IS 32 YEARS OLD OPENSOURCE FOR 20 YEARS

ERLANG/OTP OPEN TELECOM PLATFORM

OTP is a collection of useful middleware, libraries, and tools written in the Erlang programming language.

- Wikipedia on OTP

OTP IS WELL SUITED FOR

- Distributed
- ► Fault-tolerant
- Highly available

SYSTEMS

OF COURSE YOU GET ALL OF THIS "FOR FREE" WHEN PROGRAMMING ELIXIR

WHAT ELSE?

IMMUTABLE DATA

PATTERN MATCHING

EASY CONCURRENCY

USING THE ACTOR MODEL

TOPICS FOR TODAY?

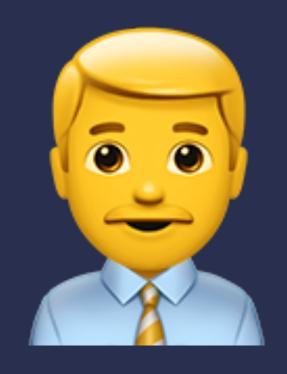
- Syntax
- ► Functional paradigms
 - ► Immutable data
 - Pattern matching

UNLESS YOU HAVE SOME QUESTIONS

FANGY NEW

E-COMMERCE

A WILD CUSTOMER COMES ALONG



HE HAS SOME REQUIREMENTS

We need a way of adding products to a shopping cart!

- The wild customer

We need to calculate the overall sum of money to be paid

- The wild customer

We have premium customers that pay 10% less!

- The wild customer

We need shipping costs that are dependent on the weight of the shipment!

- The wild customer



Free shipping over 100£!

The wild customer

When you select PayPal as your payment method, we charge 5% more because of fees that we have to pay!

- The wild customer

We want to know the CLYs (revenue generated per customer) to support our most valuable customers!

The wild customer

We need to exclude the shipping costs from the CLYs!

- The wild customer

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git clone https://github.com/jfornoff/elixir-ug-rover