

GETTING STARTED WITH ELIXIR

SLIDES ON GITHUB¹

¹<https://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**

**LET'S GET
STARTED!**

UNLESS YOU HAVE SOME QUESTIONS

FANCY NEW

STARTUP

E-COMMERCE SHOP

**A WILD CUSTOMER
COMES ALONG**



HE HAS SOME

REQUIREMENTS

1.

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

– The wild customer

2.

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

– The wild customer

3.

*We have premium customers that pay
10% less!*

– The wild customer

3.

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

– The wild customer

4.

Free shipping over 100€!

– **The wild customer**

5.

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

– The wild customer

BONUS!

B1.

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

– The wild customer

B2.

*We need to exclude the shipping costs
from the CLVs!*

– The wild customer

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CODING DOJO

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