

How to teach elixir to non-functional developers



I am Leandro Bighetti

Elixir - Energy Industry - YouTube



Agenda

The First 5 SecondsBecoming DysfunctionalGraduating

The First 5 Seconds

Part 1

A bigger problem

A bigger problem

Marketing ?

HOME INSTALL GUIDES LEARNING DOCS

<pre>defprotocol String.Inspect only: [BitString, List,</pre>
<pre>defimpl String.Inspect, fo def inspect(false), do:</pre>
<pre>def inspect(true), do: def inspect(true), do: def inspect(nil), do:</pre>
<pre>def inspect(:""), do: def inspect(:""), do:</pre>
def inspect(atom) do

🔈 elixir

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

Elixir leverages the Erlang VM, known for running low-latency, distributed and fault-tolerant systems, while also being successfully used in web development and the embedded software domain.

To learn more about Elixir, check our getting started guide and

our <u>learning page for other resources</u>. Or keep reading to get an overview of the platform, language and tools.

HOME INSTALL GUIDES LEARNING DOCS

defprotocol String.Inspe only: [BitString, List	
<pre>defimpl String.Inspect, def inspect(false), do def inspect(true), do def inspect(nil), do def inspect(:""), do</pre>):):):
def inspect(atom) do	

elixir

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

Elixir leverages the Erlang VM, known for running low-latency, distributed and fault-tolerant systems, while also being successfully used in web development and the embedded software domain.

To learn more about Elixir, check our getting started guide and

our <u>learning page for other resources</u>. Or keep reading to get an overview of the platform, language and tools.

I don't have concurrent problems!

I don't have concurrent problems!

• I have boring problems!

Phoenix



Productive. Reliable. Fast.

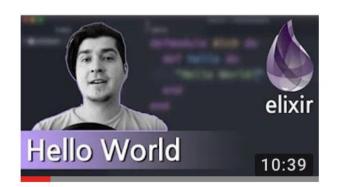
A productive web framework that does not compromise speed and maintainability.

Build APIs, HTML 5 apps & more

See our guides

Productivity!

YouTube



Hello World | Zero to Hero in Elixir #1

3,3 mil visualizações • 1 ano atrás

Quickstart!

Quickstart!

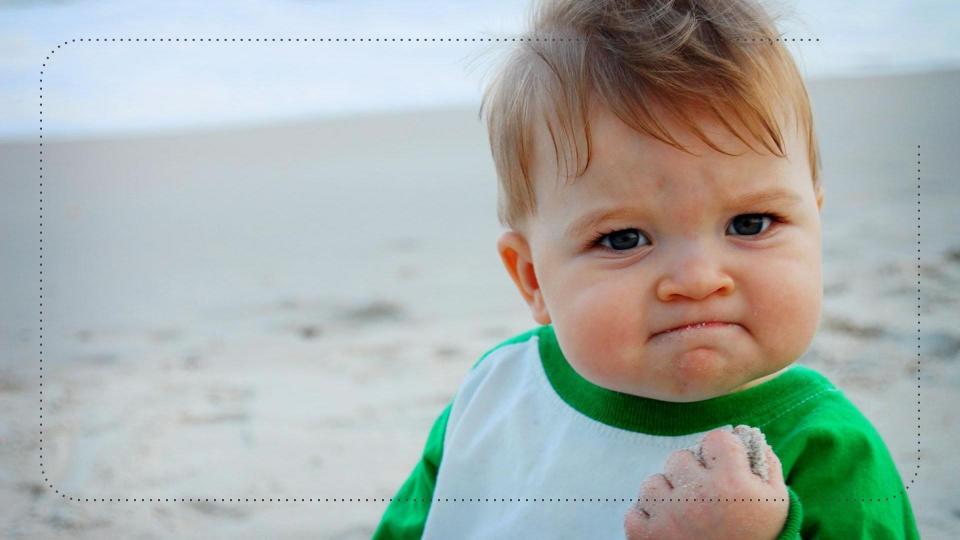
mix phx.new my_app

mix phx.server



Welcome to Phoenix!

A productive web framework that does not compromise speed and maintainability.



Becoming Dysfunctional

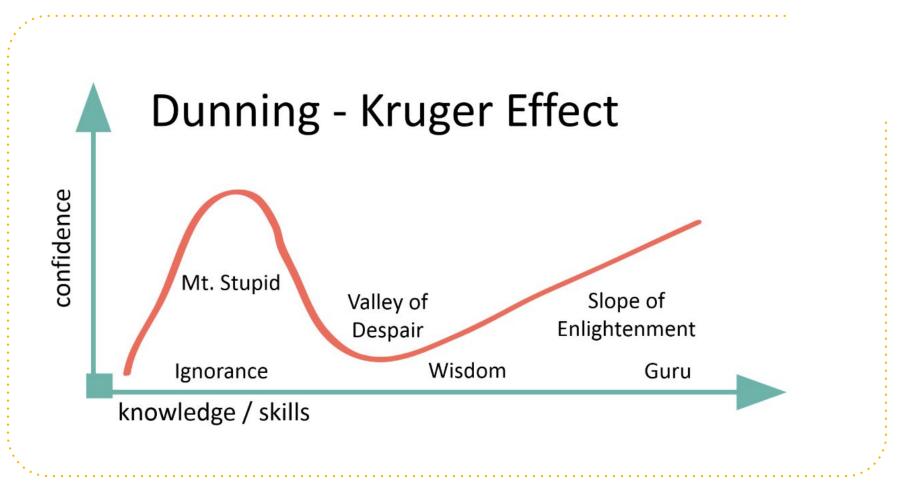
Part 2

Newborn

• Breastfeeding

Newborn

Breastfeeding Learning a new skill is hard!



Strange questions?

Strange questions?

Unknown unknownsXY Problem

Strange questions?

Unknown unknowns XY Problem ... how do we solve this?

No Retreat! No Surrender!

44

Teacher (Community)

EmpathyPatience

Pupil

Build things!even books are secondary

Elixir is not a language, It's an experience.

Graduating

Part 3

Independence

• How to achieve it ?

Newborn

• Must master basic skills



"Get the fundamentals down otherwise the fancy stuff isn't going to work"

- Randy Pausch, The Last Lecture

Where to focus?

Where to focus?

OO vs FP differencesOO vs elixir differences

• Immutability

ImmutabilityPattern Matching

ImmutabilityPattern MatchingRecursion

- ImmutabilityPattern MatchingRecursion
- Pipe Operator

- Immutability
- Pattern Matching
- Recursion
- Pipe Operator
- Linked Lists

- Immutability
- Pattern Matching
- Recursion
- Pipe Operator
- Linked Lists
- Erlang Processes

- Immutability
- Pattern Matching
- Recursion
- Pipe Operator
- Linked Lists
- Erlang Processes
- Higher Order Functions

Higher Order Functions

- Enum.map
- Enum.filter
- & friends

Bottom line



Recap

- Do Not Lose Them
- Valley of Despair
- Independence Day





https://www.youtube.com/c/LittleAlchemistio