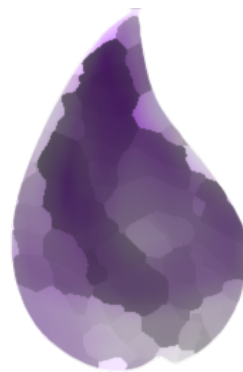
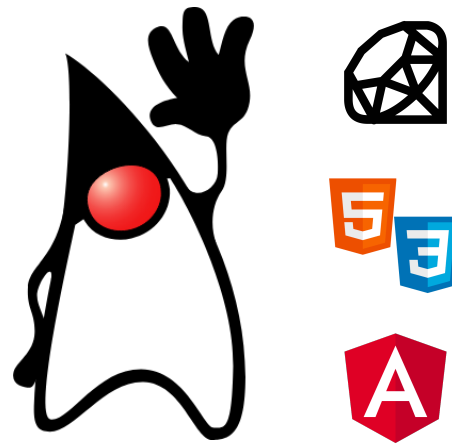


Introducción a Elixir: Chat con Phoenix paso a paso



|>AST

SOBRE MI



indra



LIFERAY®

Empachate.com

¿DE QUÉ VA ESTO DE ELIXIR?

- Erlang



- Confiable



Paul Chiusano
@pchiusano



WhatsApp: 900M users, built w/ < 35 devs, using [#erlang](#)
Uber: 40M users, a Rube Goldberg machine (Python, go, Java...), 2k devs + growing

- Funcional y Concurrente

$f(x)$

- Rapidez y Rendimiento



Phoenix Framework

Name	Status	Type	Initiator	Size	Time	Ti
localhost	200	document	Other	962 B	22 ms	
frame	200	document	(index):18	41.7 KB	4 ms	

MUY GUAPO TODO, PERO... ¡ENSEÑAME CÓDIGO!



Integer

Float

```
iex> 0b0110
6
iex> 0x1F
31
iex> 1.0e-10
1.0e-10
```



Cadenas

```
iex> adele = "from the
other side"
iex> "Hello #{adele}"
"Hello from the other side"
```

```
iex> adele = "from the
other side"
iex> "Hello " <> adele
"Hello from the other side"
```

Átomos

```
iex> :foo
:foo
iex> :foo == :bar
false
```

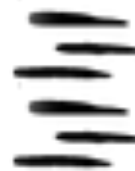
```
iex> :two
:two
iex> :two == String.to_atom("two")
true
```



Rangos

```
iex> range = 1..3
1..3
iex> first..last = range
1..3
iex> first
1
iex> last
3
```

MÁS CÓDIGO: COLECCIONES



Listas []

```
iex> list = [3.14, :foo, "Gastronomy"]  
[3.14, :foo, "Gastronomy"]
```

```
# Prepending (rápido)  
iex> ["Beer"] ++ list  
["Beer", 3.14, :foo, "Gastronomy"]  
# Appending (lento)  
iex> list ++ ["Dessert"]  
[3.14, :foo, "Gastronomy", "Dessert"]
```

Listas de clave/valor [key: value]

```
iex> [foo: "bar", hello: "from the other  
side", foo: 3.14]  
[foo: "bar", hello: "from the other side",  
foo: 3.14]
```

Tuplas { }

```
iex> tuple = {3.14, :foo, "Gastronomy"}  
{3.14, :foo, "Gastronomy"}
```

```
iex> File.read("path/file/menu")  
{:ok, "1. Ensalada, 2. Cachopo"}
```

Mapas %{ }

```
iex> map = %{:hello => "from the other  
side", "foo" => :bar}  
%{:hello => "from the other side", "foo"  
=> :bar}  
iex> map.hello  
"from the other side"
```

PATTERN MATCHING



$$n = a + 1$$

$$a + 1 = n$$

No podemos hacer esto en lenguajes no funcionales



```
iex> x = 3
3
iex> 3 = x
3
iex> 2 = x
** (MatchError) no match of right hand side value
```

```
iex> [1, var, 3] = [1, 2, 3]
[1, 2, 3]
iex> var
2
```

x → 3

x → 7

x → 3

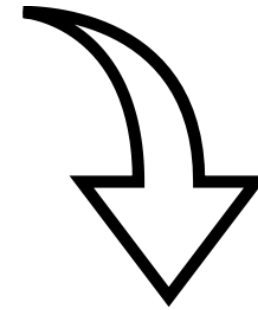
x → 3
x → 7

FUNCIONES

Anónimas



```
iex> sum = fn (a, b) -> a + b end  
iex> sum.(2, 3)  
5
```



```
iex> sum = &(&1 + &2)  
iex> sum.(2, 3)  
5
```

Funciones con nombre

fx

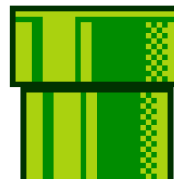
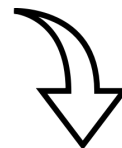
```
defmodule Adele do  
  def hello(param) do  
    "Hello " <> param  
  end  
end  
  
iex> Adele.hello("from the other side")  
"Hello from the other side"
```

OPERADOR PIPE: |>

```
bill = prepare_bill(add_taxes(orders.by_customer(find_customer(id), 2018)))
```



```
customer = find_customer(id);  
customer_orders = orders.by_customer(customer, 2018);  
orders_with_taxes = add_taxes(customer_orders);  
bill = prepare_bill(orders_with_taxes);
```



```
bill = find_customer(id) |> orders.by_customer(2018) |>  
      add_taxes() |> prepare_bill()
```


ENUM

```
iex> Enum.any?(["foo", "bar", "hello"], fn(s) -> String.length(s) == 5 end)
true
```

```
iex> Enum.chunk_every([1, 2, 3, 4, 5, 6], 2)
[[1, 2], [3, 4], [5, 6]]
```

```
iex> Enum.map([0, 1, 2, 3], fn(x) -> x - 1 end)
[-1, 0, 1, 2]
```

```
iex> Enum.uniq_by([1, 2, 3, 2, 1, 1, 1, 1, 1], fn x -> x end)
[1, 2, 3]
```

MIX

```
mix compile
```

```
mix test
```

```
mix new my project
```

```
mix deps.get
```

```
MIX_ENV
```

```
:dev
:test
:prod
```

PHOENIX FRAMEWORK



- **Web Framework**
- **Patrón MVC**
- **Baja curva de aprendizaje**
- Router
- Vistas
- Endpoints
- Controllers
- Channels
- Templates

LIVE CODING



```
brew install elixir
```

```
mix archive.install https://  
github.com/phoenixframework/  
archives/raw/master/phx_new.ez
```

<https://postgresapp.com/>

```
lsof -i :5432
```



Instalar Elixir

```
elixir -v
```

<https://repo.hex.pm/elixir-websetup.exe>

Instalar Phoenix

```
mix phx.new -v
```

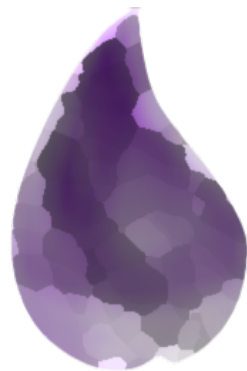
```
mix archive.install https://  
github.com/phoenixframework/  
archives/raw/master/phx_new.ez
```

Instalar Postgres

<https://postgresapp.com/>

```
netstat -na | find "5432"
```

¡Gracias!



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