



**DXUQ IN ELIXIR**

# ELIXIR? I BARELY KNOW 'ER

- Functional programming language built on top of erlang
- Erlang invented in the 80s, used in telecom. Elixir invented in 2011 to improve on Erlang while keeping the VM and concurrency support
- BEAM VM provides strong support for concurrency and scalability, used in telecom, finance, and commerce



# IMPLEMENTATION PROGRESS

✓ Tokenize

✓ Parse

✓ Interpret

✓ Serialize

☐ Tokenization error handling

☐ Decimal numbers

**THE CODE**

# ELIXIR VALUES

Integers, Floats, Strings,  
Atoms:

```
:something    :true = true    :nil
```

Lists (linked), Tuples (contiguous),  
Structs  $\approx$  Maps:

```
%Bike{size: 56, type: :giant}  $\approx$  %{:size => 56, :type => :giant}
```

Closures, Keyword lists

# ELIXIR SYNTAX

## Pipe operator

```
f(g(x)) == g(x) |> f()
```

## Sigils

```
~r/foo|bar/  
~w(foo bar bat)a  
~D[2019-10-31]
```

## Anonymous functions

```
(&(&1 + &2)).(1, 2)
```

## Structs

```
%IfC{f: f, then: t, else: e}
```

|>

~w

&()

%{ }

# ELIXIR EMPLOYMENT?

- **Alex:** sure
- **Bailey:** also sure (if such a job exists)