

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 ≈ Maps:

```
%Bike{size: 56, type: :giant} ≈ %{:size => 56, :type => :giant}
```

Closures, Keyword lists

ELIXIR SYNTAX

Pipe operator

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

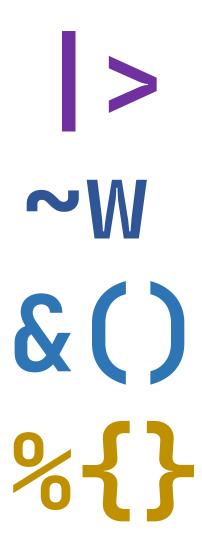
Sigils

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

Anonymous functions

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

Structs



ELIXIR EMPLOYMENT?

• Alex: sure

• Bailey: also sure (if such a job exists)