

How Little Languages Shape the Future

Orlando Code Camp 2023 • <https://youtu.be/avblxk98xvo>

AJ Foster • 25 March 2023

I'm AJ

Software Engineer
at **CodeSandbox**

Specializing in a language
not many people use



Thesis

Learning **Little Languages** will help you become a **better developer** and **help the community** as a whole.

harder to hire for

unproven

harder to get help

less popular

smaller ecosystem

niche focus

business risk

incoming
Rant



“ The index can be used to... make a strategic decision about what programming language should be adopted when starting to build a new software system. ”

1



Python

2



C

3

Logo
Omitted
for Legal
Reasons

Java

⋮

⋮

18

19

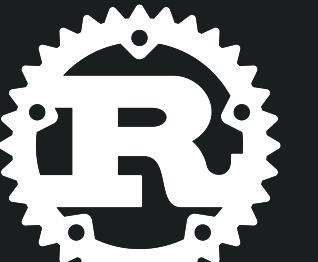
20



Fortran



Ruby



Rust



Swift



2022 Developer Survey

In May 2022 over 70,000 developers told us how they learn and level up, which tools they're using, and what they want.

[Read the overview →](#)

[Methodology →](#)

Knowledge, Collaboration, Community

Stack Overflow for Teams enables enterprises to capture, share, & collaborate on knowledge internally.

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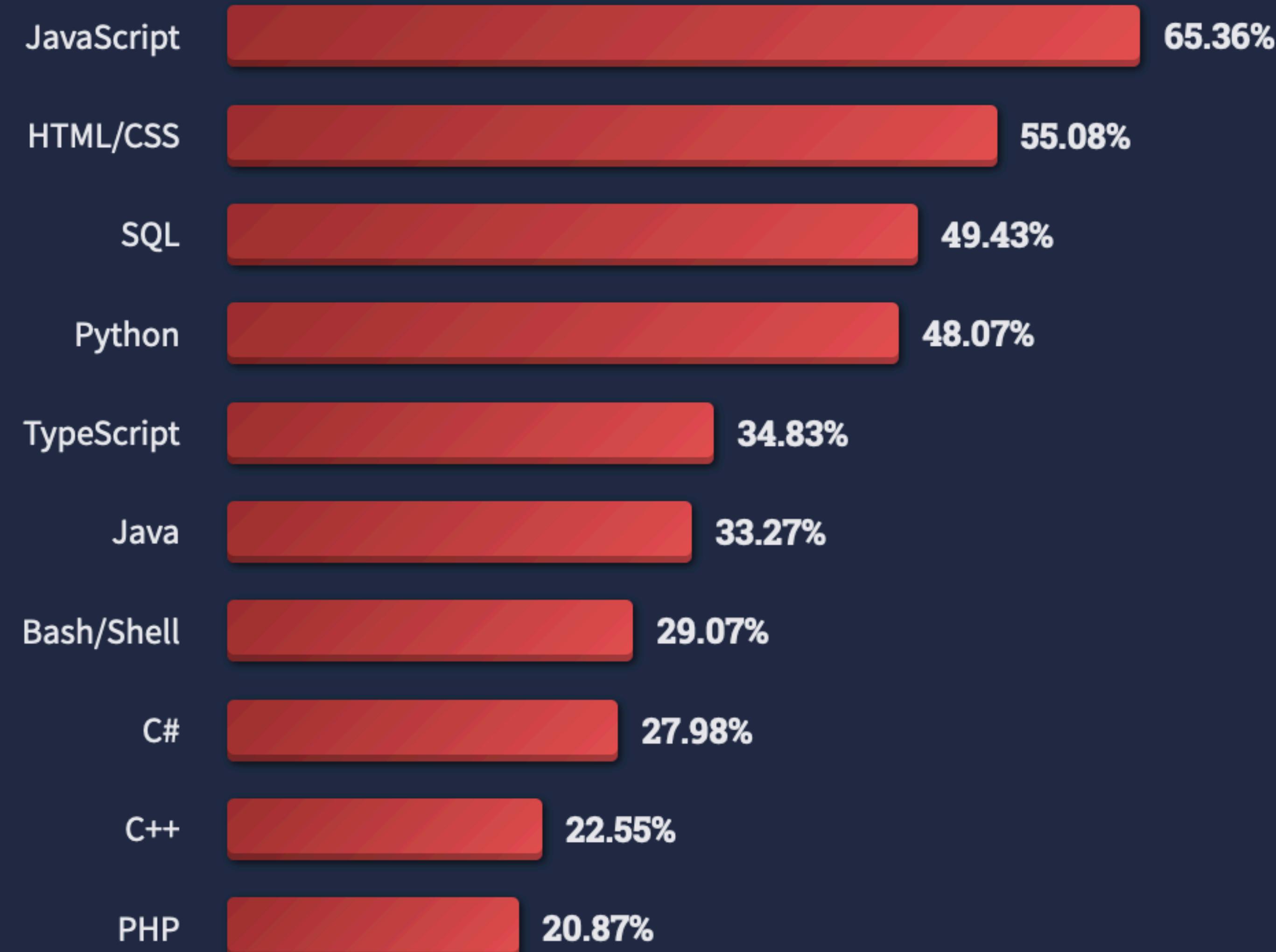
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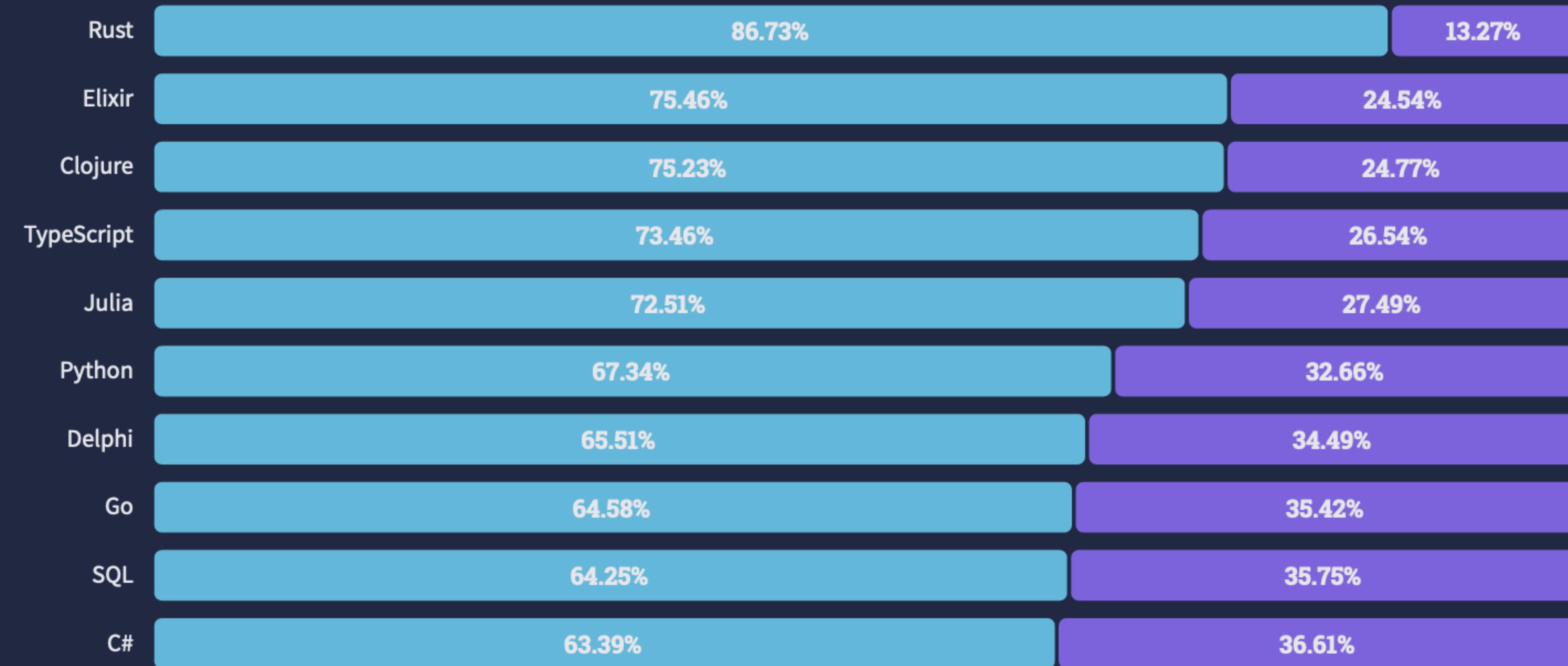
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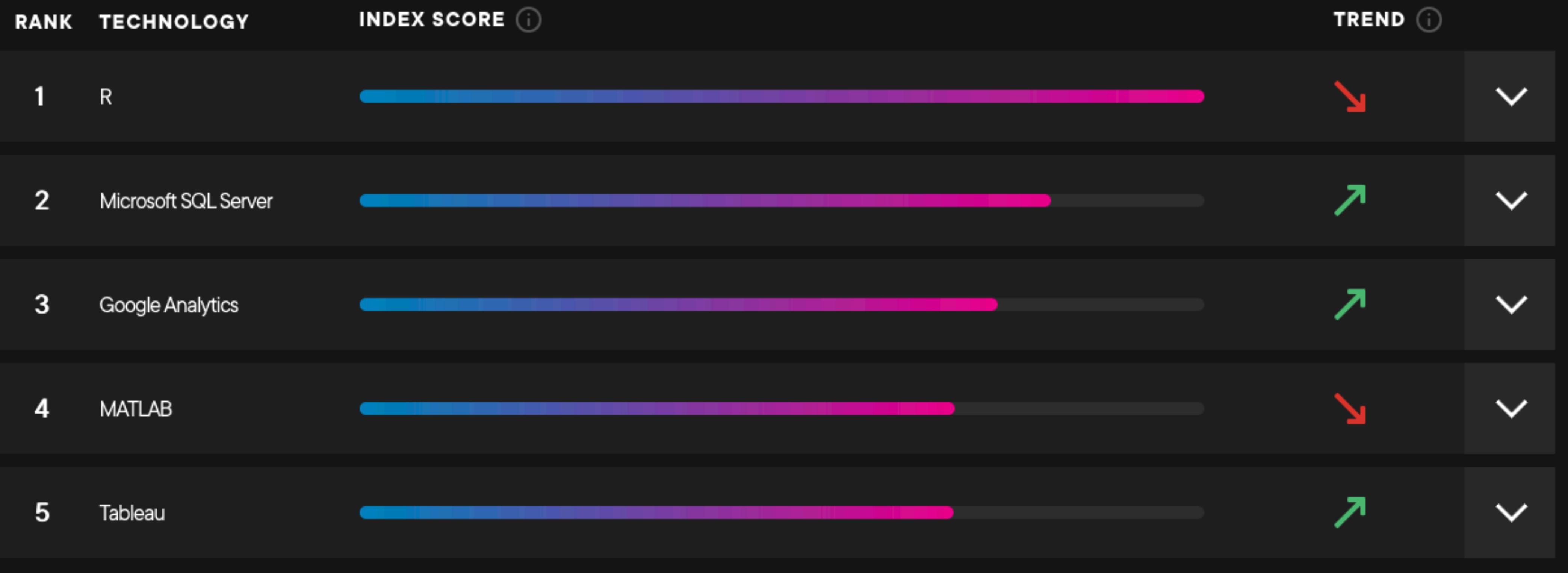




Loved vs. Dreaded • Stack Overflow Survey 2022

Top technologies for

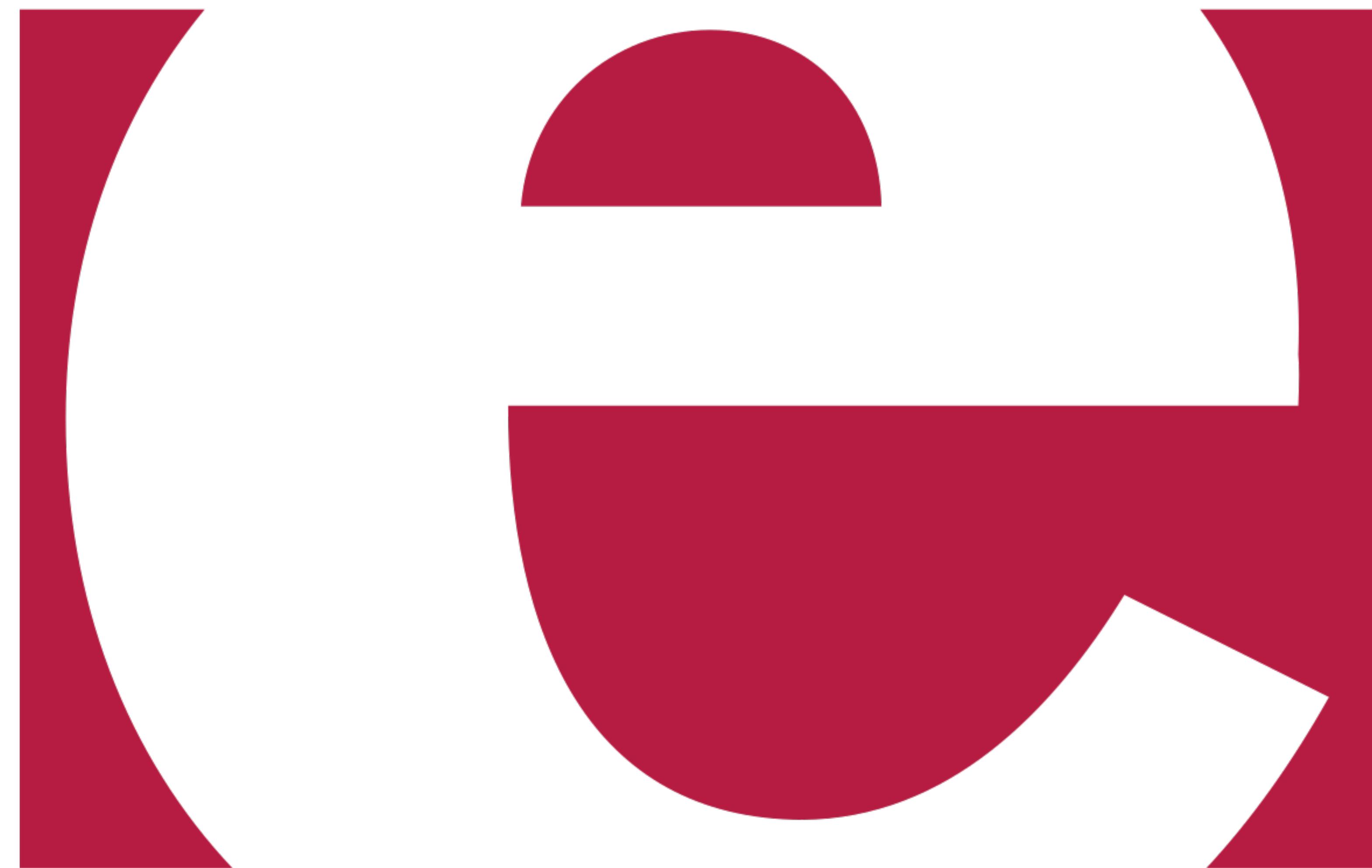
Data professional



popularity is subjective

**End
Rant**

for now



ERLANG

Functional
Dynamically Typed
Concurrent
Fault-tolerant
Hot Module Reloading

```
-module(otel_sampler_parent_based).
-behavior(otel_sampler).
-export([description/1, setup/1, should_sample/7]).  
  
setup(Opts = #{root := RootSpec}) →  
    RemoteParentSampledSampler = sampler_for_spec(remote_parent_sampled, Opts, always_on),  
    RemoteParentNotSampledSampler = sampler_for_spec(remote_parent_not_sampled, Opts, always_off),  
    LocalParentSampledSampler = sampler_for_spec(local_parent_sampled, Opts, always_on),  
    LocalParentNotSampledSampler = sampler_for_spec(local_parent_not_sampled, Opts, always_off),  
    RootSampler = otel_sampler:new(RootSpec),  
    #{  
        root ⇒ RootSampler,  
        remote_parent_sampled ⇒ RemoteParentSampledSampler,  
        remote_parent_not_sampled ⇒ RemoteParentNotSampledSampler,  
        local_parent_sampled ⇒ LocalParentSampledSampler,  
        local_parent_not_sampled ⇒ LocalParentNotSampledSampler  
    };  
setup(Opts) →  
    ?LOG_INFO("No sampler spec found for parent_based ..."),  
    setup(Opts#{root ⇒ always_on}).
```

alpaca

elchemy

fez

idris-erlang

purerl

caramel

elixir

FFE

interfix

reia

clojerl

EML

fika

joxa

rufus

concurrent

ephp

gleam

kapok

sesterl

schemer

erl2

hamler

LFE

cuneiform

erlog

hamler

luerl

template
compiler

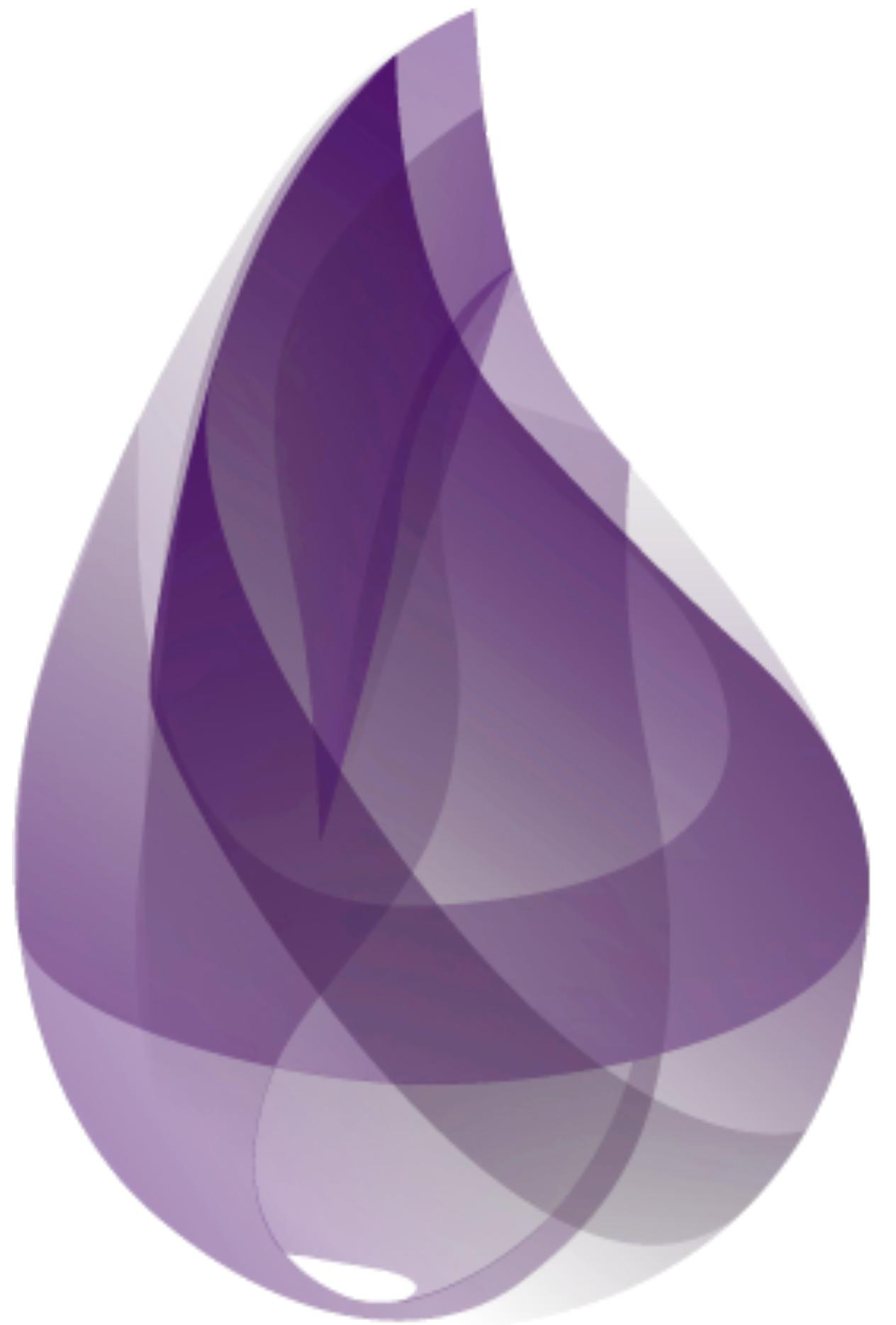
efene

erlyjs

haskerl

OTPCL

xerl



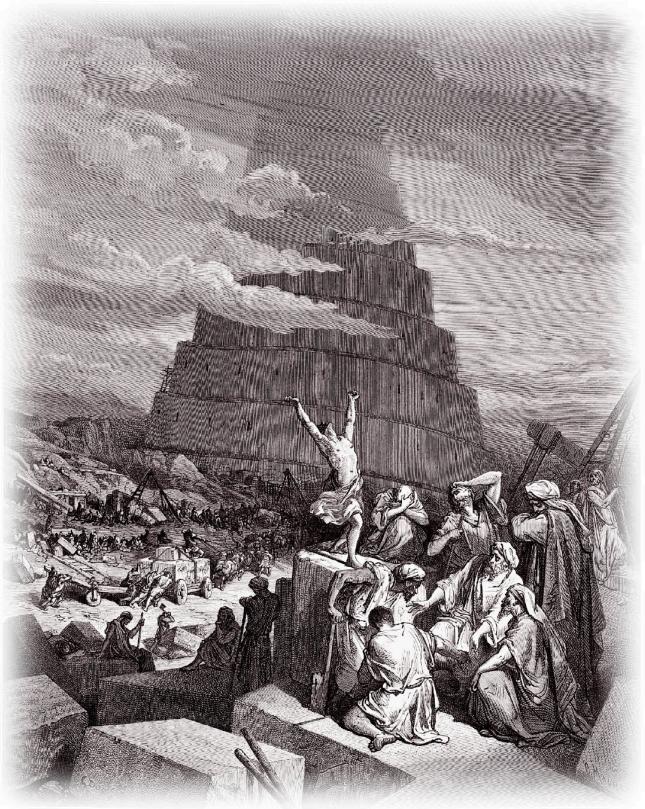
elixir

Functional
Dynamically Typed
Concurrent
Fault-tolerant
Hot Module Reloading

The
Pragmatic
Programmers

Seven Languages in Seven Weeks

A Pragmatic
Guide to
Learning
Programming
Languages



Bruce A. Tate
Edited by Jacquelyn Carter

“ Just as each new spoken language can make you smarter and increase your options, each programming language increases your mental tool kit, adding new abstractions you can throw at each new problem. ”

The Pragmatic Bookshelf



“ We would also like to acknowledge the Erlang BEAM runtime and Elixir language for a more modern take built upon the same foundations, which have greatly inspired our design... ”



Orleans





“I recently read through this blog post about Phoenix LiveView and got really excited for what might be possible in Laravel.”

Caleb Porzio, January 2019

*A language doesn't need
to be popular to...*

teach you something
new and important

*A language doesn't need
to be popular to...*

introduce important
ideas to the community

*A language doesn't need
to be popular to...*

be a good choice
for your business

*A language doesn't need
to be popular to...*

have value

dart
carbon lua awk
purescript
kotlin
 elixir
zig ruby
clojure io scala
 elm
 erlang julia
 idris crystal

Thank you

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elastic



CODE

