#### Phoenix framework



#### Milad Rastian

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Ruby is Slow

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- \* Rails Performance

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- \* Rails Performance
- People are still complaining!

#### O.K. What are the alternatives?

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\* Go

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#### O.K. What are the alternatives?

- \* Go
- \* Scala/Clojure

# Scala/Clojure?



#### O.K. What are the alternative?

- \* Go
- \* Scala/Clojure

## Why do we love Ruby?

- \* Community
- \* The joy of programming
- \* Productivity

# You might still say it's not performing as you want!

Seriously!?

#### What if?

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\* You can have all the benefits of Ruby

#### What if?

- \* You can have all the benefits of Ruby
- \* Without sacrificing performance.



#### Meet Elixir

### Why Elixir/Phoenix?

\* Fast

# Erlang VM



Fault-tolerant

#### Benchmark

Framework	Throughput (req/s)	Latency (ms)
Phoenix 0.13.1	179,685	0.61ms
Gin (GO)	176,156	0.65ms
Play (Java/Scala)	171,236	1.89ms
Rails	11,903	8.50ms

https://gist.github.com/omnibs/e5e72b31e6bd25caf39a

### Why Elixir/Phoenix?

- \* Fast
- \* Reliable

#### Reliable

- \* Process Monitoring/Supervision
- \* Recover Failure

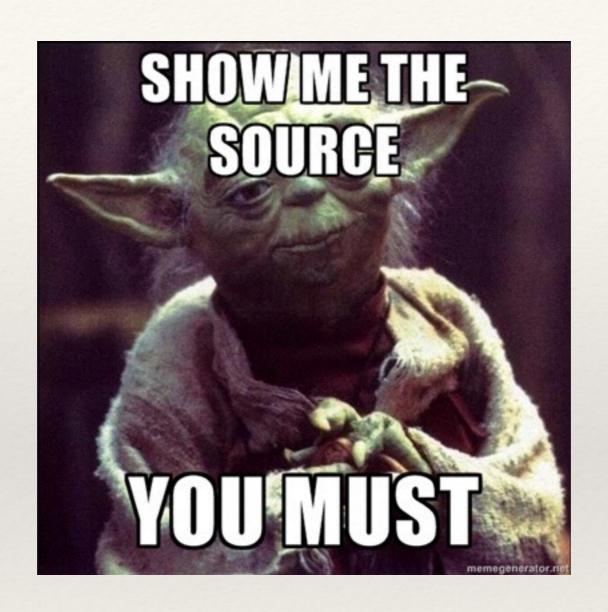
# Why Elixir/Phoenix?

- \* Fast
- \* Reliable
- \* Productive

#### Productive

```
defmodule Etel.Router do
     use Etel.Web, :router
     pipeline :browser do
       plug :accepts, ["html"]
       plug :fetch_session
       plug :fetch_flash
       plug :protect_from_forgery
       plug :put_secure_browser_headers
10
     end
11
12
     pipeline :api do
13
       plug :accepts, ["json"]
14
     end
15
16
     scope "/", Etel do
       pipe_through :browser # Use the default browser stack
17
18
19
       get "/", PageController, :index
20
     end
21
22
     # Other scopes may use custom stacks.
     scope "/api", Etel do
23
24
       pipe_through :api
     end
   end
```

# There is no need to trade beautiful, maintainable code to gain performance



https://github.com/slashmili/talks/tree/master/2016/phoenix-klxrb-march

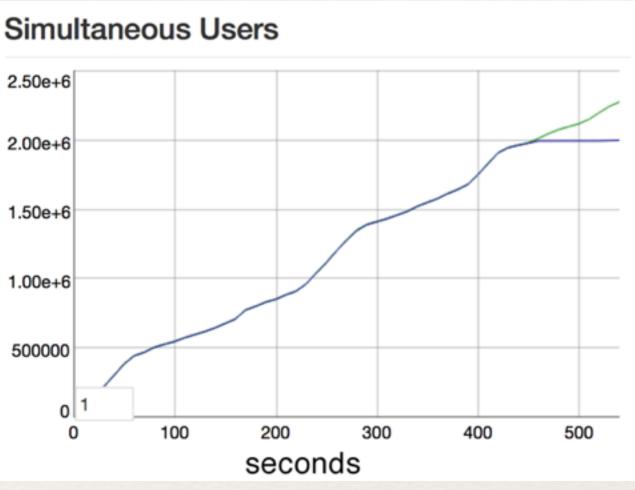
#### Static Assets with Brunch

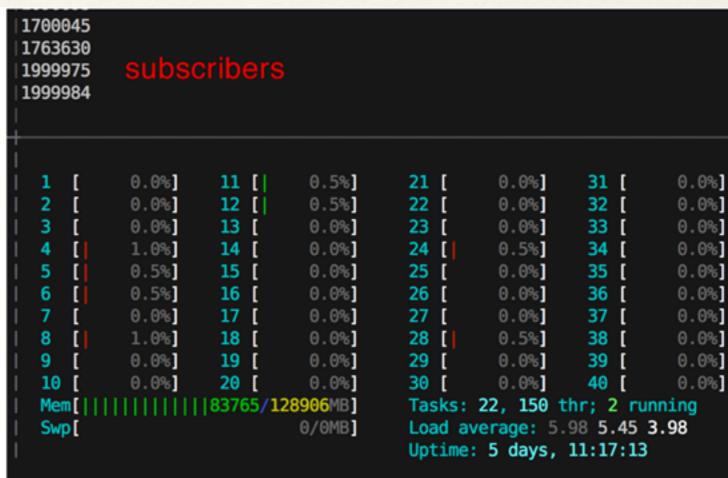


#### Channels

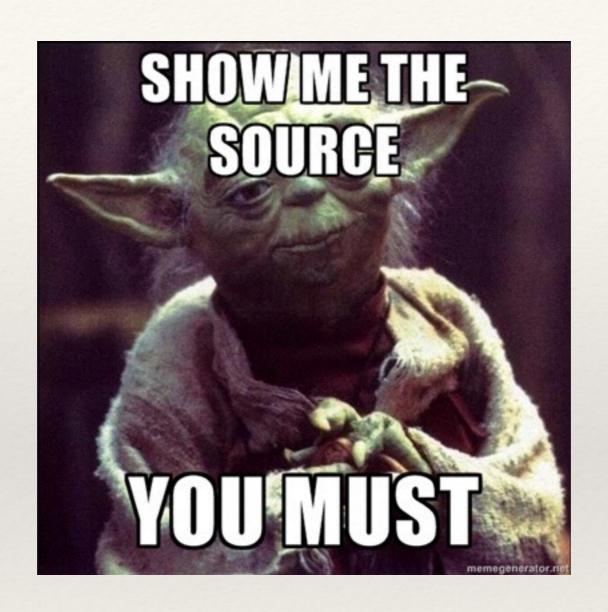


#### 2 Million Websocket Connections in Phoenix



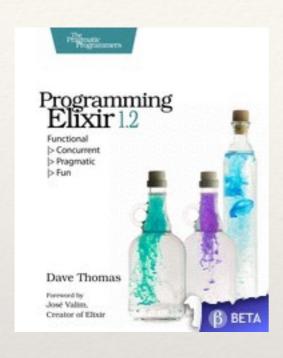


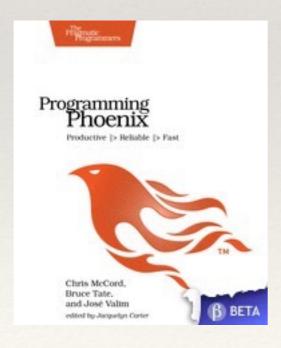
http://www.phoenixframework.org/blog/the-road-to-2-million-websocket-connections

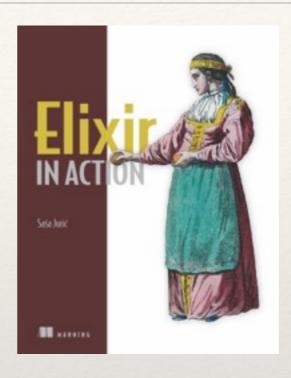


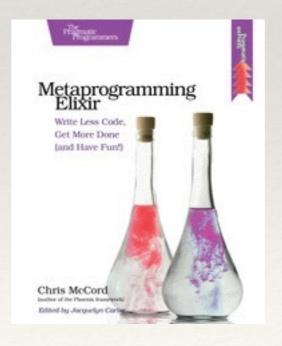
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#### Books









# Thanks

slides and codes http://slashmili.org/talks