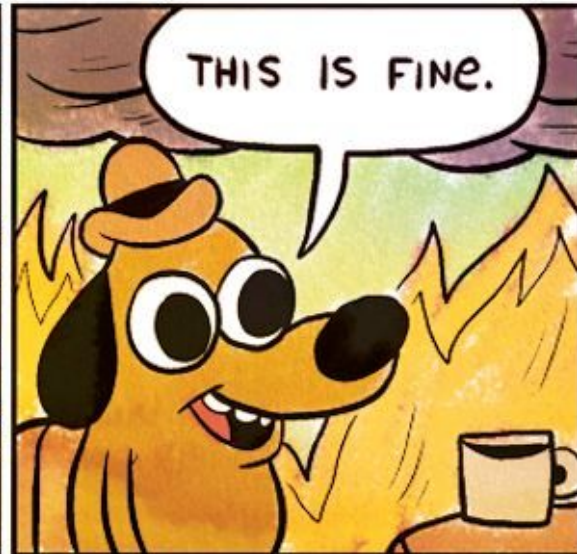


A QUICK ERLANG INTRODUCTION

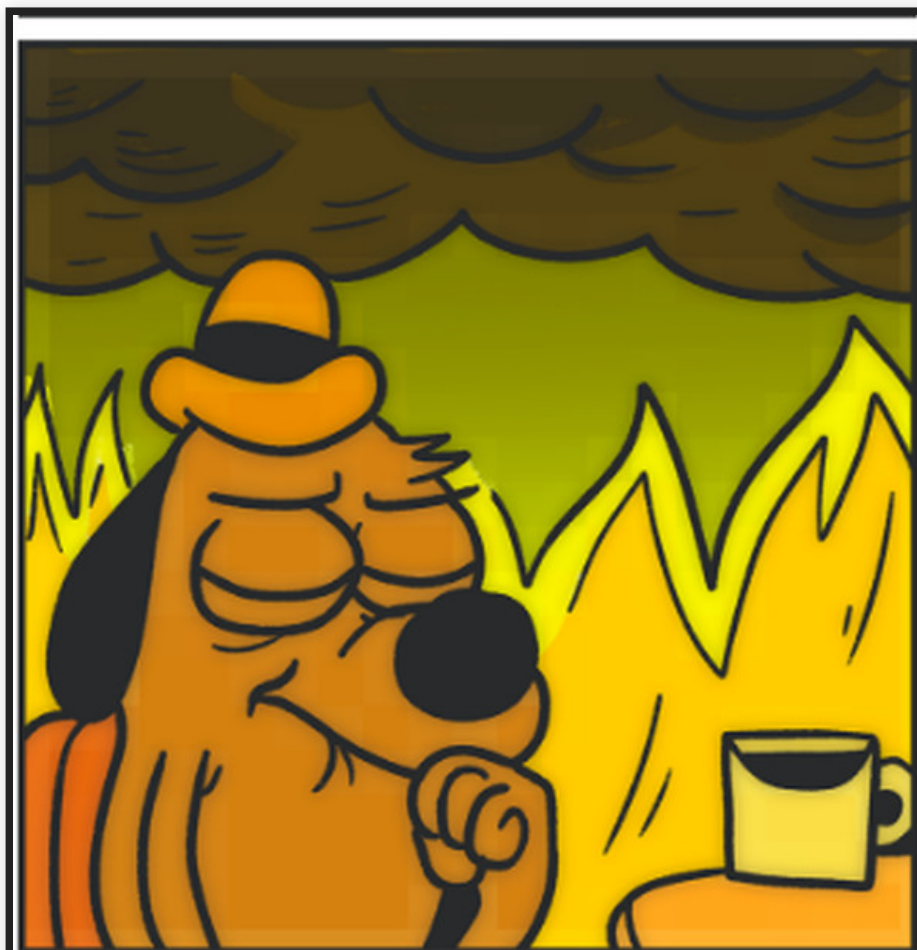
Mathieu Kerjouan | [@niamtokik](#)

INVENTORY OF A NIGHTMARE

- Concurrent/Parallel/Distributed programming
- Dependencies
- Testing
- Documentation
- Security
- Portability



We will solve all problems with highly complex and "too smart for you" Oriented Object Paradigm even if you don't like rotten spaghettis.



- 30's: Church and the [Lambda Calculus](#)
- 40's: Turing and the [Abstract Machine](#)
- 1958: McCarthy and [LISP](#)
- 1972: Colmerauer/Roussel and [Prolog](#)
- 1973: Milner and [ML](#)
- 1985: Turner and [Miranda](#)
- 1986: Armstrong/Virding/Williams and [Erlang](#)
- 1990: A committee and [Haskell](#)
- 1995: Somogyi and [Mercury](#)
- 1996: Leroy and [OCAML](#)
- 2004: Odersky and [Scala](#)
- 2007: Hickey and [Clojure](#)

WHY ERLANG?

- Actor Model
- Distributed Language
- High Level Programming Language
- Stable
- Portable
- Answer Industrial Needs
- High Quality Standard

WHO USE ERLANG?

- Amazon
- Ericsson
- Cisco
- Facebook
- WhatsApp
- Github
- Rackspace
- *and many more...*

WHAT KIND OF PROJECT?

- Chef
- CouchDB
- RabbitMQ
- ejabberd
- Riak
- BarrelDB
- Yaws
- Wings3D

ERLANG FROM SOURCES

```
$ git clone https://github.com/erlang/otp.git
$ cd otp
$ ./otp_build release -a
$ ./bin/erl
Erlang/OTP 21 [erts-10.2] [source] [64-bit] [smp:2:2]

Eshell V10.2  (abort with ^G)
1>
```

ERLANG REPL

```
1> Function = fun(X) -> io:format("~p~n", [X]) end.  
#Fun<erl_eval.6.128620087>  
2> Function(test).  
test  
ok  
3>
```

ERLANG MODULE

```
1 -module(test).  
2 -export([hello/0]).  
3 -include_lib("eunit/include/eunit.hrl").  
4  
5 hello() ->  
6     io:format("hello world!~n").  
7  
8 hello_test() ->  
9     ?assertEqual(ok, hello()).
```

compile it

```
1> c(test).  
{ok,test}  
2> t:hello().  
hello world!  
ok
```

ERLANG ACTORS

```
1 -module(test).  
2 -export([actor/0]).  
3  
4 actor() ->  
5     receive  
6         Data -> io:format("got: ~p~n", [Data]),  
7                 actor()  
8     end.
```

compile it

```
1> c(test).  
{ok,test}  
2> Pid = erlang:spawn(fun() -> t:actor() end).  
<0.82.0>  
3> [{data, "test"}] ! Pid.  
got: [{data, "test"}]  
ok
```

Questions?

