

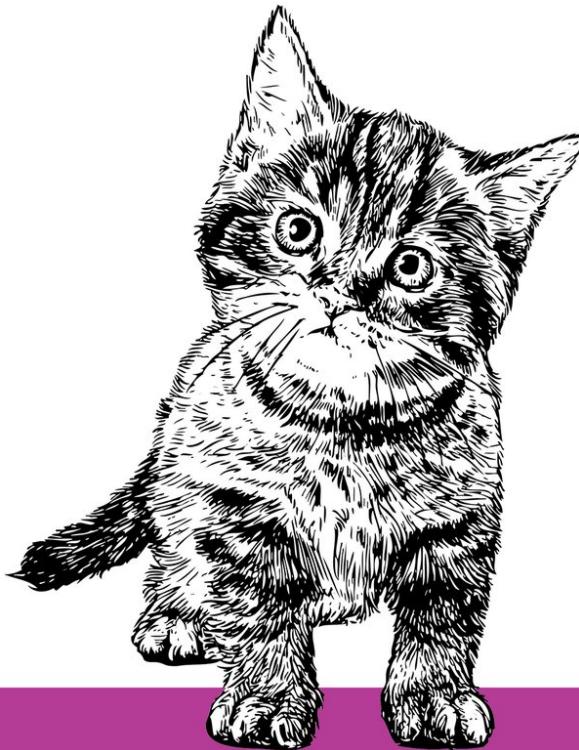
Modern Clicks

Erlang Fullstack Web
Development with Nitrogen



Hola! I'm David Cao
@davecaos

How to actually learn any new programming concept



Essential

Changing Stuff and
Seeing What Happens

O RLY?

@ThePracticalDev

Universidad Nacional de La Matanza **UNLAM**



~~ADDIX~~

~~ODERU~~
~~CLIX~~





CHARLY GARCIA

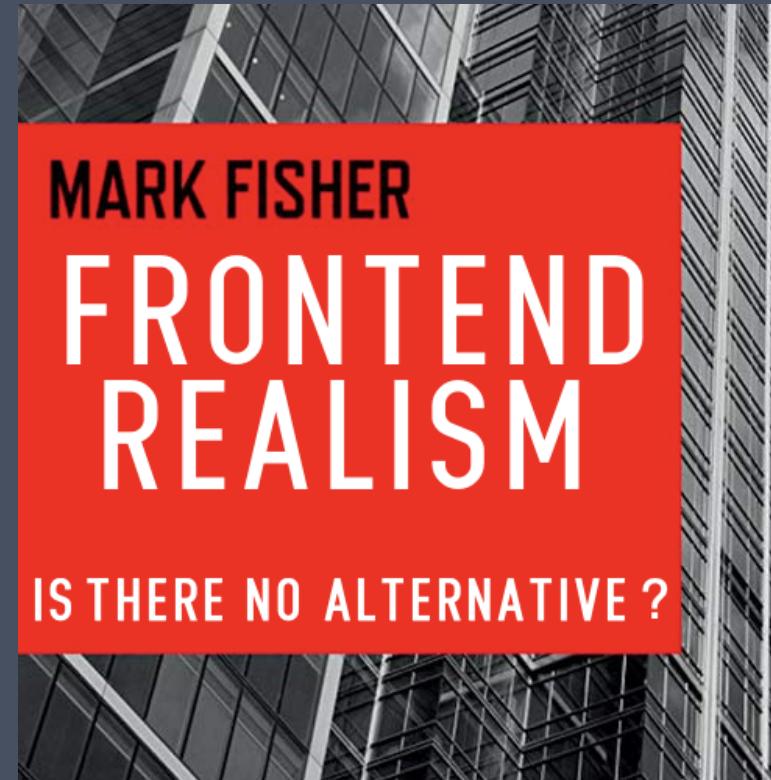
LOS DINOSAURIOS

VIVO LUNA PARK 1983

vevo

Why should you choose
another web framework?

“It's easier to imagine the end of
the world than the end of Javascript
on the browser.”





I come to propose you a
dream

nitrogenproject.com

HOME DOWNLOADS GITHUB DEMOS DOCUMENTATION LEARN MORE GET INVOLVED



Nitrogen Web Framework is the fastest way to develop interactive web applications in full-stack Erlang.

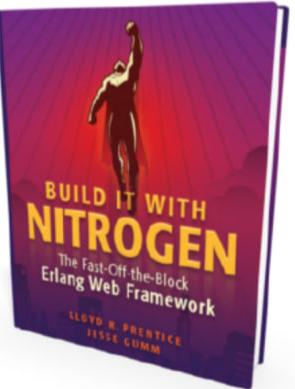
DOWNLOAD NITROGEN ▾



MAJOR ANNOUNCEMENTS

November 16th, 2020
Nitrogen 2.4.0 Released!
View the [changelog](#), or [Download it now »](#)

Nitrogen Book Released!



Get the [Paperback Book](#) or the [eBook](#) of Build It with Nitrogen!

Jesse Gumm and his daughter



Nitrogen Main Features

Build HTML with Erlang terms
(as data)

Replace JS with Erlang functions
(as side effects)

You have still to use CSS for styling

Nitrogen Derivated Features

You **don't** have to **switch languages** between
frontend and backend

You **don't** have to call a **gazillion** of Rest APIs to
communicate things with the frontend

⚠ TRADE OFFER ⚠

i receive:

**Erlang terms
and functions**

you receive:

**A web
application**

Nitrogen

How to be **REAL** Erlang
developer



**There is no secret ingredient.
It's just you.**

An Erlang atom



```
○ ○ ○  
1 Eshell V14.0.2  
2 1> this_is_an_atom.  
3 this_is_an_atom  
4 2> 'This_is_an_atom_too'.  
5 'This_is_an_atom_too'  
6 3>
```

Variables are Capitalized!

```
○ ○ ○  
1 Eshell V14.0.2  
2 1> Name = "Joe".  
3 "Joe"  
4 2> Surname = "Armstrong".  
5 "Armstrong"
```

INMUTABILITY!

○ ○ ○

```
1 Eshell V14.0.2
2 1> X = 1.
3 1
4 2> X = X + 1.
5 ** exception error: no match of right hand side value 2
6 3> X1 = X + 1.
7 2
```

Lists and Strings

○ ○ ○

```
1 Eshell V14.0.2
2 1> ListOfInt = [1,2,3,4,5].
3 [1,2,3,4,5]
4 2> ListOfAtoms = [one, two, three, four, five].
5 [one,two,three,four,five]
6 3> String =
7 [69,108,105,120,105,114,32,70,111,114,116,97,108,101,122,97,32,67,111,110,102].
8 "Elixir Fortaleza Conf"
9 4>
```

This means you need to use
recusion to traverse a list

But you don't need to know
resursion in depth

You could use map/ filter/ foreach to modify a list
But you should use **List Comprehensions** instead



List Comprehensions as a map

○ ○ ○

```
1 Eshell V14.0.2
2 1> List = [1,2,3,4,5].
3 [1,2,3,4,5]
4 2> [ X*X || X ← List ].
5 [1,4,9,16,25]
6 3>
```

List Comprehensions as a filter

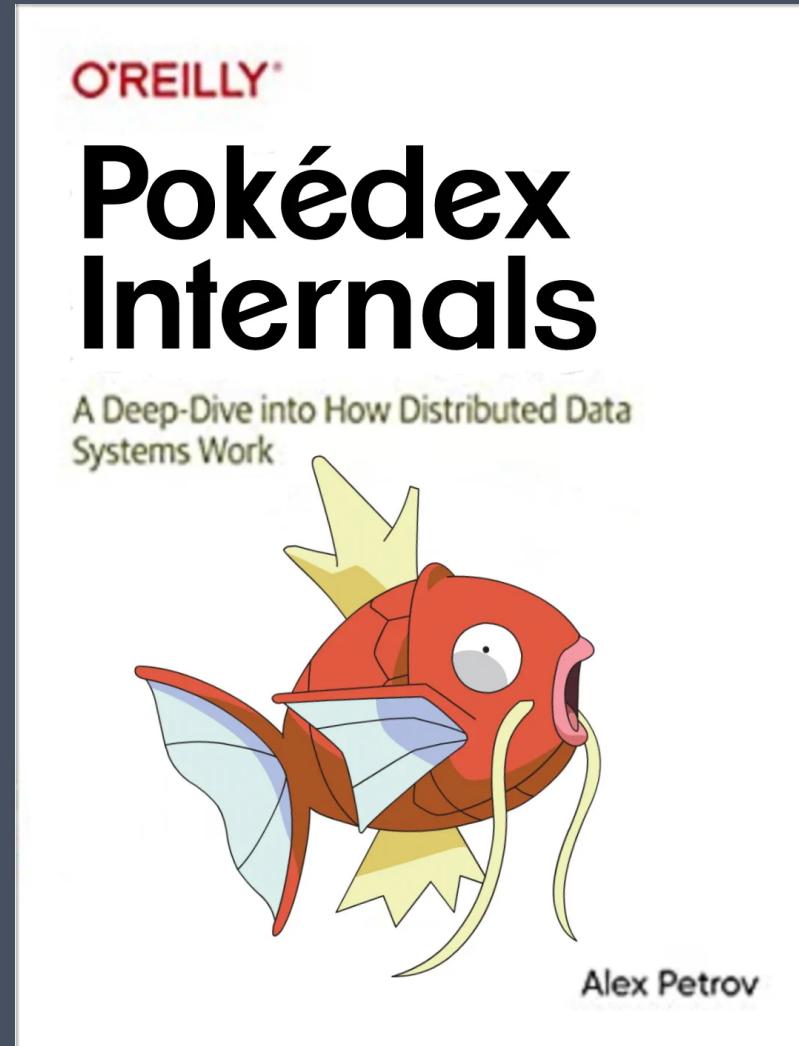
```
○ ○ ○  
1 Eshell V14.0.2  
2 1> List = [1,2,3,4,5].  
3 [1,2,3,4,5]  
4 2> ListWithNoFives = [ X || X <- List, X /=5 ].  
5 [1,2,3,4]
```

How to bootstrap a Nitrogen project

○ ○ ○

```
1 $ git clone https://github.com/nitrogen/nitrogen -b rebar3
2 $ cd nitrogen
3 $ make slim_yaws PROJECT=pokedex_project
4 $ cd ..
5 $ cd pokedex_project
6 $ make run_dev
```

Demo Time!



Gracias!