



elixir

Katas

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Tips

defguard and defguardp (> Elixir 1.6)

```
0 defmodule User do
1   defstruct [:age]
2 end
3
4 defmodule Bar do
5   defguard legal_adult?(age) when age >= 21
6
7   def enter?(%User{age: age}) when legal_adult?(age), do: IO.puts("Can enter")
8   def enter?(%User{age: _age}), do: IO.puts("Can't enter")
9
10  def drinks?(%User{age: age}) when legal_adult?(age), do: IO.puts("Can ask for drinks")
11  def drinks?(%User{age: _age}), do: IO.puts("Can't ask for drinks")
12 end
13
14 user = %User{age: 20}
15
16 Bar.enter?(user)
17 # => Can't enter
18 Bar.drinks?(user)
19 # => Can't ask for drinks
20
21 user = %User{age: 22}
22 Bar.enter?(user)
23 # => Can enter
24 Bar.drinks?(user)
25 # => Can ask for drinks
```

Tips

.iex

```
ramortegui@RA rumbl_phoenix_1_4 (master) $ more .iex.exs
alias Rumbl.Repo
alias Rumbl.Accounts.User
alias Rumbl.Multimedia.Category
alias Rumbl.Multimedia.Video

import Ecto.Query
ramortegui@RA rumbl_phoenix_1_4 (master) $
```

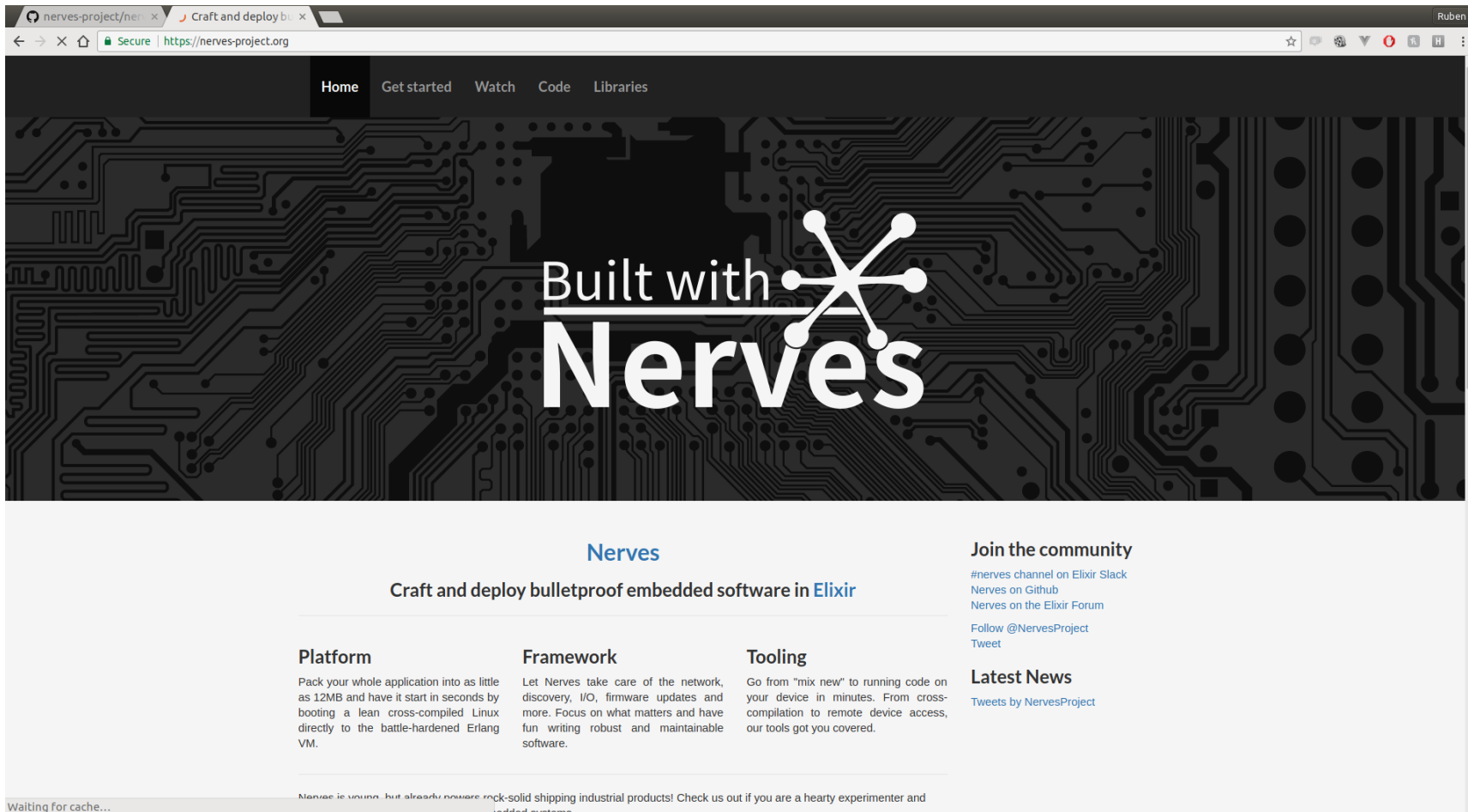
Info

- Phoenix 1.4 is coming
 - Changed brunch for webpack
 - http2 support (not by default)



Info

Nerves 1.0 released (May 2nd 2018)




The screenshot shows the homepage of the Nerves project website. The browser's address bar displays "https://nerves-project.org". The website has a dark header with navigation links: Home, Get started, Watch, Code, and Libraries. The main banner features a circuit board background with the text "Built with Nerves" and the Nerves logo. Below the banner, the "Nerves" title is followed by the tagline "Craft and deploy bulletproof embedded software in Elixir". The page is divided into three columns: Platform, Framework, and Tooling, each with a brief description. To the right, there is a "Join the community" section with links to Slack, GitHub, and the Elixir Forum, and a "Latest News" section with a link to tweets. At the bottom, a small note mentions that Nerves is young but already powers rock-solid shipping industrial products.

nerves-project/nerv x Craft and deploy b x Ruben

Secure | <https://nerves-project.org>

Home Get started Watch Code Libraries

Built with  Nerves

Nerves

Craft and deploy bulletproof embedded software in [Elixir](#)

Platform

Pack your whole application into as little as 12MB and have it start in seconds by booting a lean cross-compiled Linux directly to the battle-hardened Erlang VM.

Framework

Let Nerves take care of the network, discovery, I/O, firmware updates and more. Focus on what matters and have fun writing robust and maintainable software.

Tooling

Go from "mix new" to running code on your device in minutes. From cross-compilation to remote device access, our tools got you covered.

Join the community

[#nerves channel on Elixir Slack](#)
[Nerves on Github](#)
[Nerves on the Elixir Forum](#)
[Follow @NervesProject](#)
[Tweet](#)

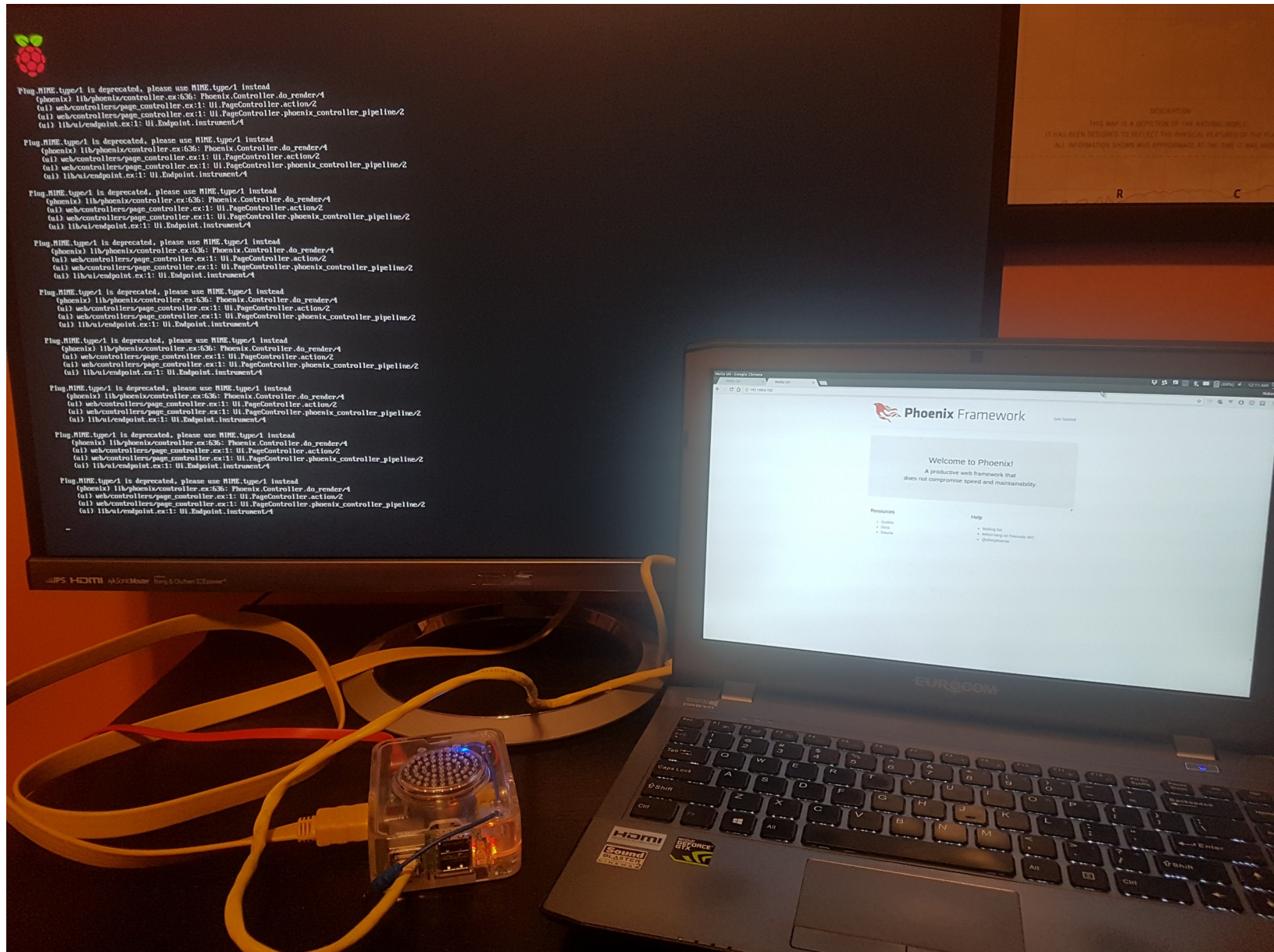
Latest News

[Tweets by NervesProject](#)

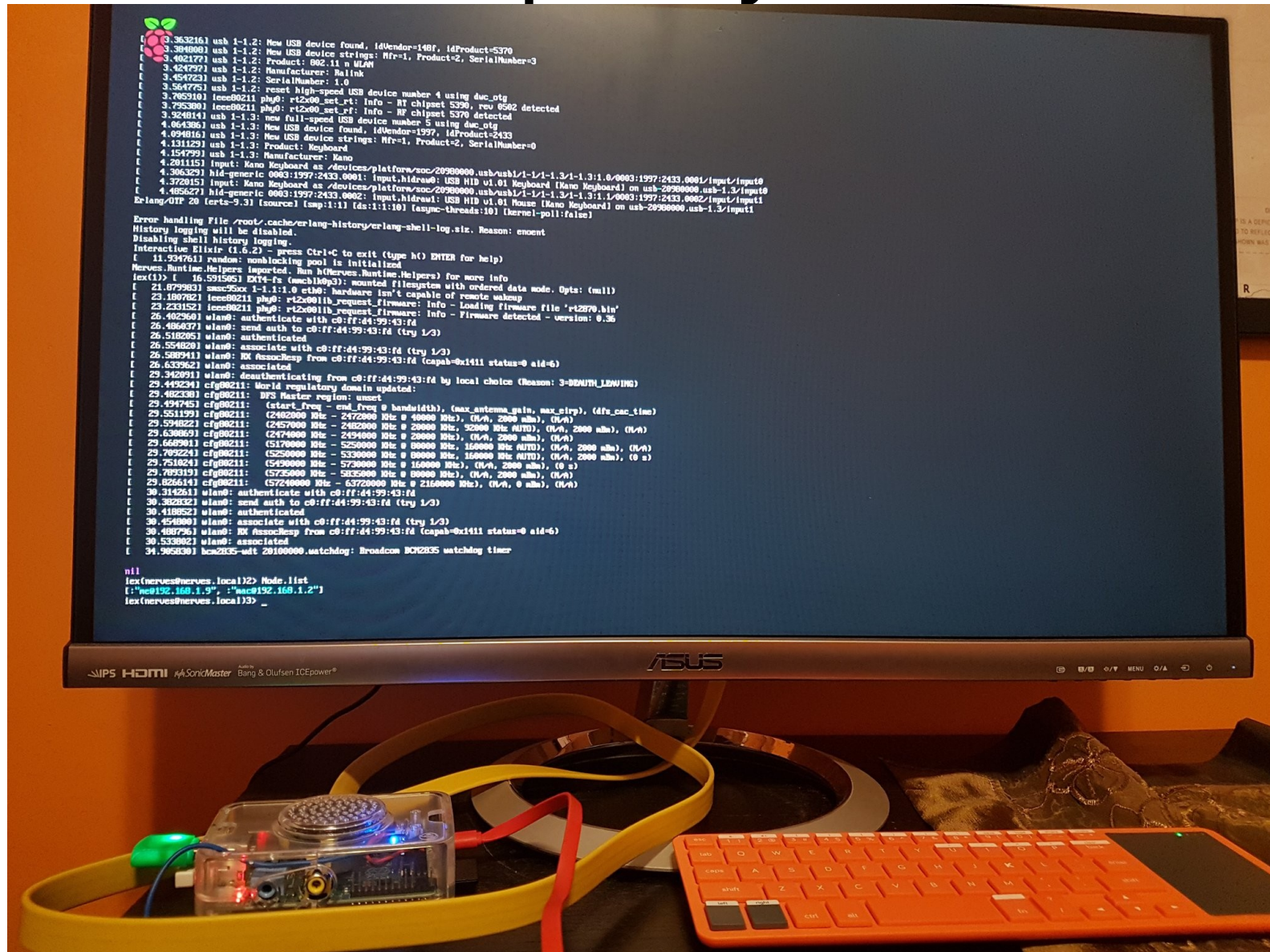
Waiting for cache...

Nerves is young, but already powers rock-solid shipping industrial products! Check us out if you are a hearty experimenter and embedded systems

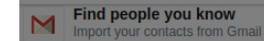
Phoenix in Raspberry PI



Wireless Node connection in Raspberry PI



✓

[Edit profile](#)

Connect other address books



Add another Tweet

✓

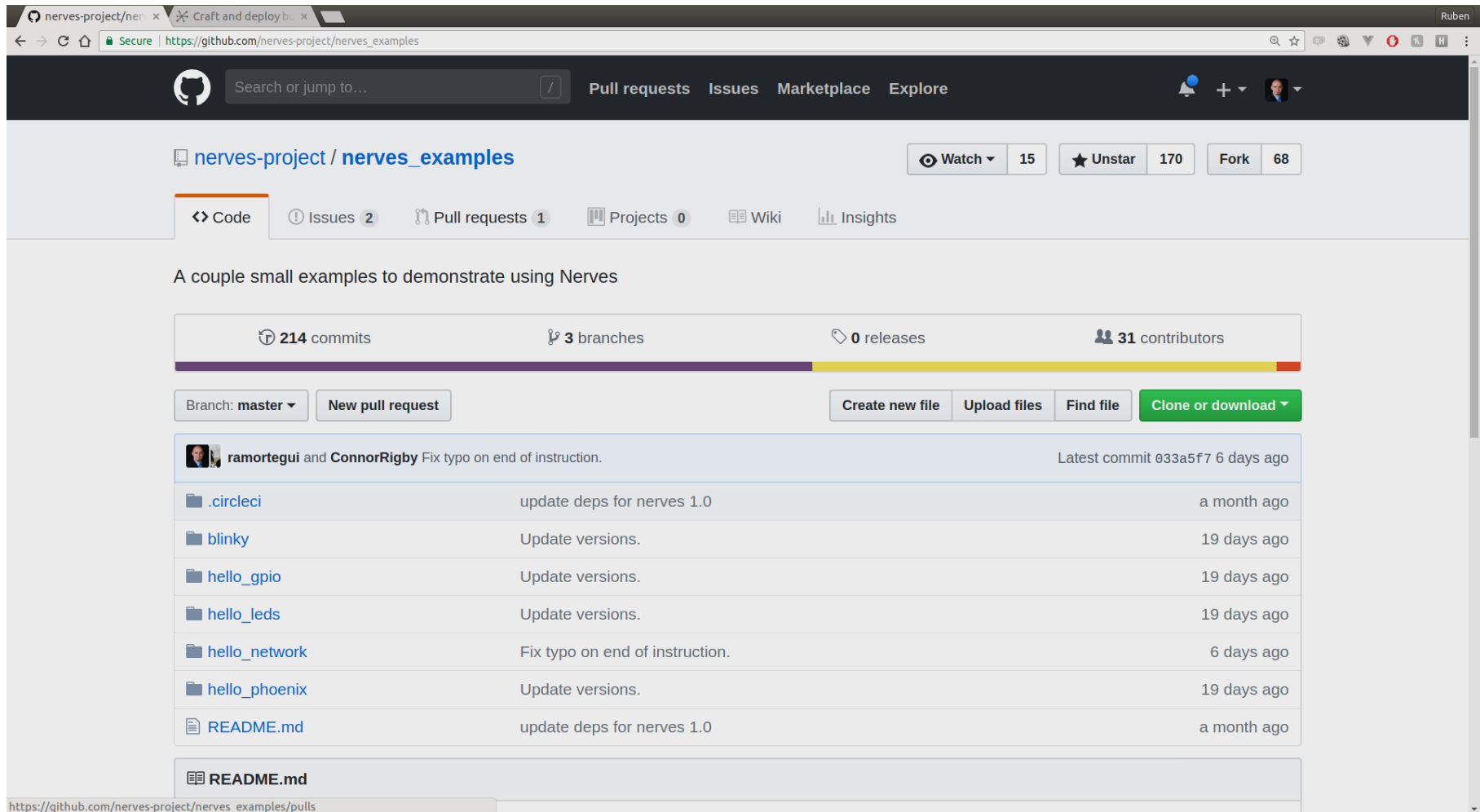
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Contribution to Nerves



nerves-project/nerves_examples

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A couple small examples to demonstrate using Nerves

214 commits 3 branches 0 releases 31 contributors

Branch: master New pull request Create new file Upload files Find file Clone or download

ramortegui and ConnorRigby Fix typo on end of instruction. Latest commit 033a5f7 6 days ago

.circleci	update deps for nerves 1.0	a month ago
blinky	Update versions.	19 days ago
hello_gpio	Update versions.	19 days ago
hello_leds	Update versions.	19 days ago
hello_network	Fix typo on end of instruction.	6 days ago
hello_phoenix	Update versions.	19 days ago
README.md	update deps for nerves 1.0	a month ago

README.md

https://github.com/nerves-project/nerves_examples/pulls

Talks Empex 2018

- Dave Thomas (Key Note)

<https://www.youtube.com/watch?v=6U7cLUygMeI>

- Architecture of projects in Elixirs

Dave Thomas



- Author and/or co-author of different books on topics like: Ruby, Unit Testing, Agile Web Development, Programming Elixir, etc.
- Coined phrases: Code Kata, 'DRY'

[https://en.wikipedia.org/wiki/Dave_Thomas_\(programmer\)](https://en.wikipedia.org/wiki/Dave_Thomas_(programmer))

Katas

<http://codekata.com/>

- Practice session
- Simple thing to try
- It's ok to make mistakes
- Feedback?
- Hard to practice in a project environment
- A good practice session will give you new knowledge

Koans

<http://codekata.com/kata/kata-kumite-koan-and-dreyfus/>

- Are questions
- Used to break down assumptions
- Reveal underlying truths.
- The goal of a koan is not the answer, but thinking about the question.

Where can we found Katas and/or Koans in Elixir?

- Katas
 - <https://www.codewars.com>
 - <http://exercism.io/languages/elixir/about>
 - <http://github.com/elixircalgary/katas>
- Koan
 - <https://github.com/elixirkoans/elixir-koans>

Thanks!

Q & A?

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