Hex Then and Now

Wojtek Mach

Hex Then and Now (For Me)

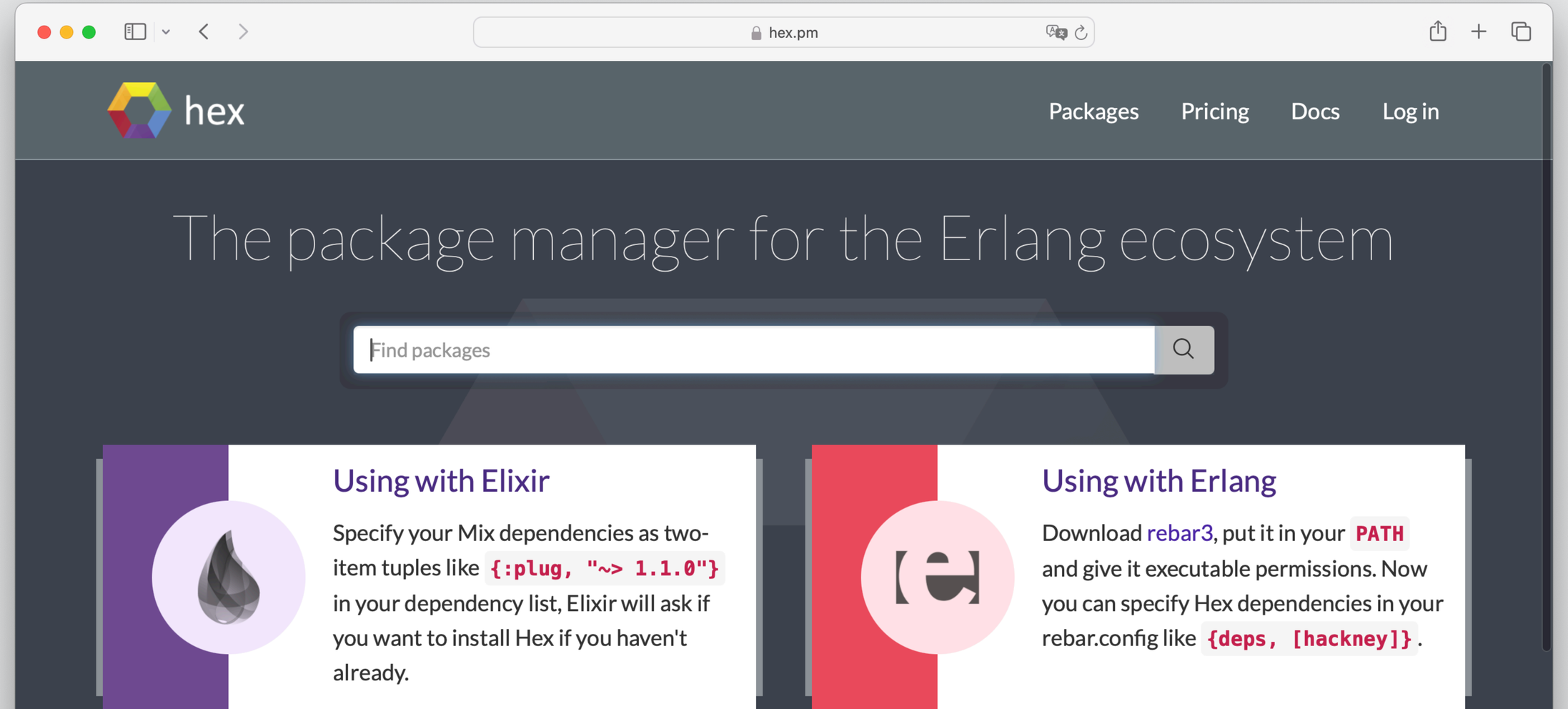
Wojtek Mach

Dashbit

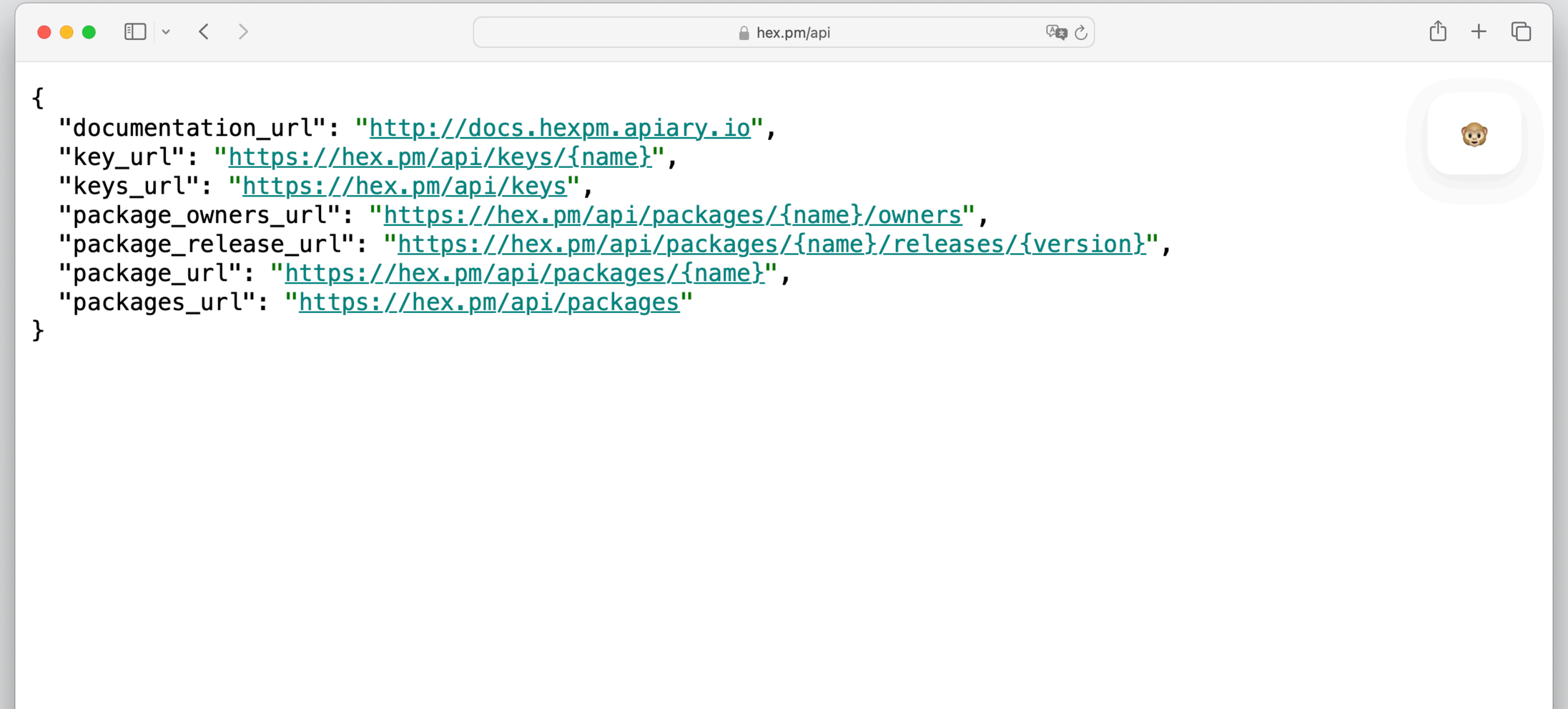
Elixir Development Subscription

hex

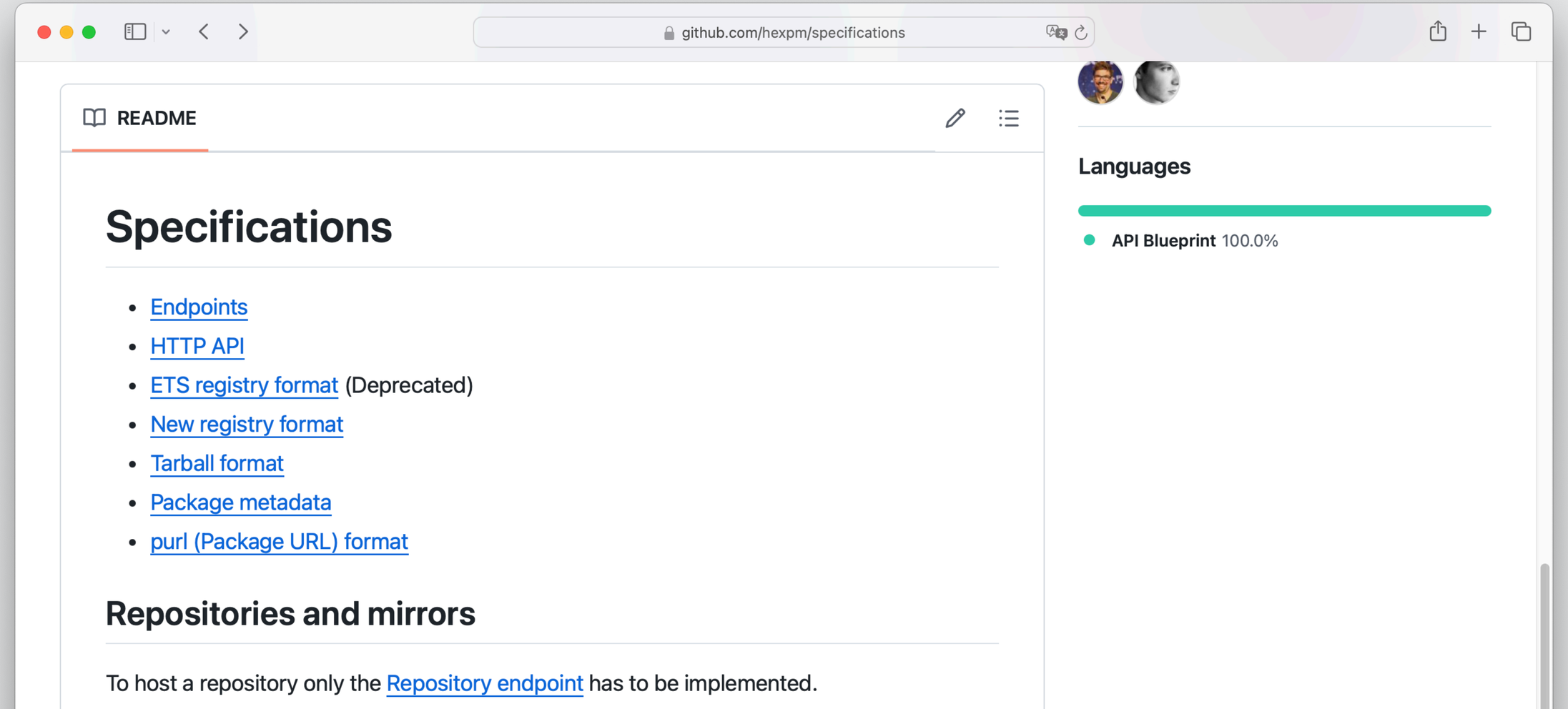
Hex.pm


hex.pm
hex
Packages
Pricing
Docs
Log in
The package manager for the Erlang ecosystem
Find packages
Using with Elixir
Specify your Mix dependencies as two-item tuples like {:plug, "~> 1.1.0"} in your dependency list, Elixir will ask if you want to install Hex if you haven't already.
Using with Erlang
Download rebar3, put it in your PATH and give it executable permissions. Now you can specify Hex dependencies in your rebar.config like {deps, [hackney]}.

Hex.pm/api


hex.pm/api
{
"documentation_url": "http://docs.hexpm.apiary.io",
"key_url": "https://hex.pm/api/keys/{name}",
"keys_url": "https://hex.pm/api/keys",
"package_owners_url": "https://hex.pm/api/packages/{name}/owners",
"package_release_url": "https://hex.pm/api/packages/{name}/releases/{version}",
"package_url": "https://hex.pm/api/packages/{name}",
"packages_url": "https://hex.pm/api/packages"
}

Hex Specifications



Hex for Mix

```
$ mix hex
Hex v2.1.2-dev
Hex is a package manager for the Erlang ecosystem.

Available tasks:

mix hex.audit                                       # Shows retired Hex deps for the current project

mix hex.build                                       # Builds a new package version locally

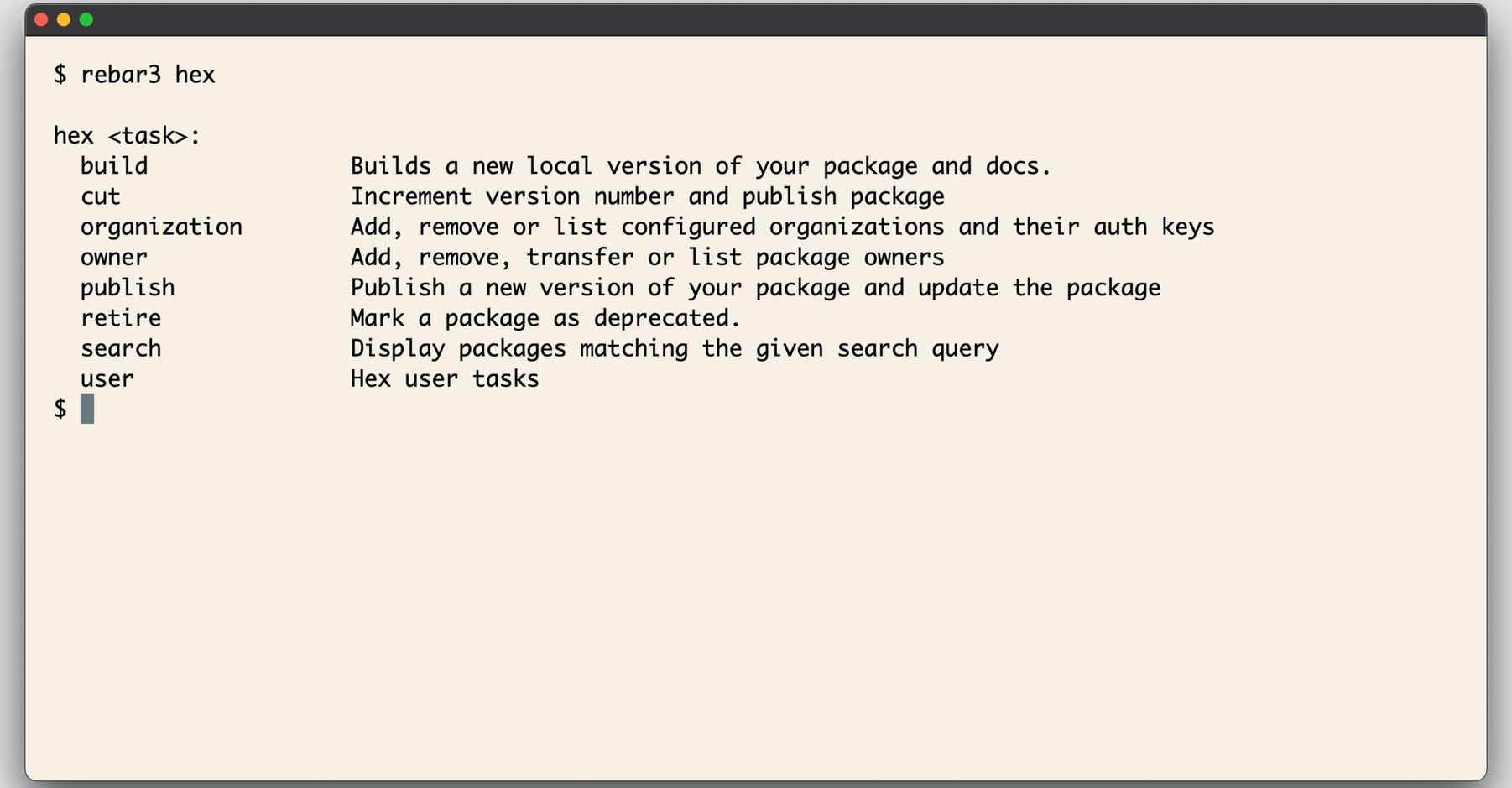
mix hex.config                                      # Reads, updates or deletes local Hex config
mix hex.config KEY                                  # Get config value for KEY
mix hex.config KEY --delete                         # Delete config value for KEY
mix hex.config KEY VALUE                            # Set config KEY to VALUE

mix hex.docs fetch PACKAGE [VERSION]                # Fetch documentation for offline use
mix hex.docs offline PACKAGE [VERSION]              # Open a browser window with offline documentation
mix hex.docs online PACKAGE [VERSION]               # Open a browser window with online documentation

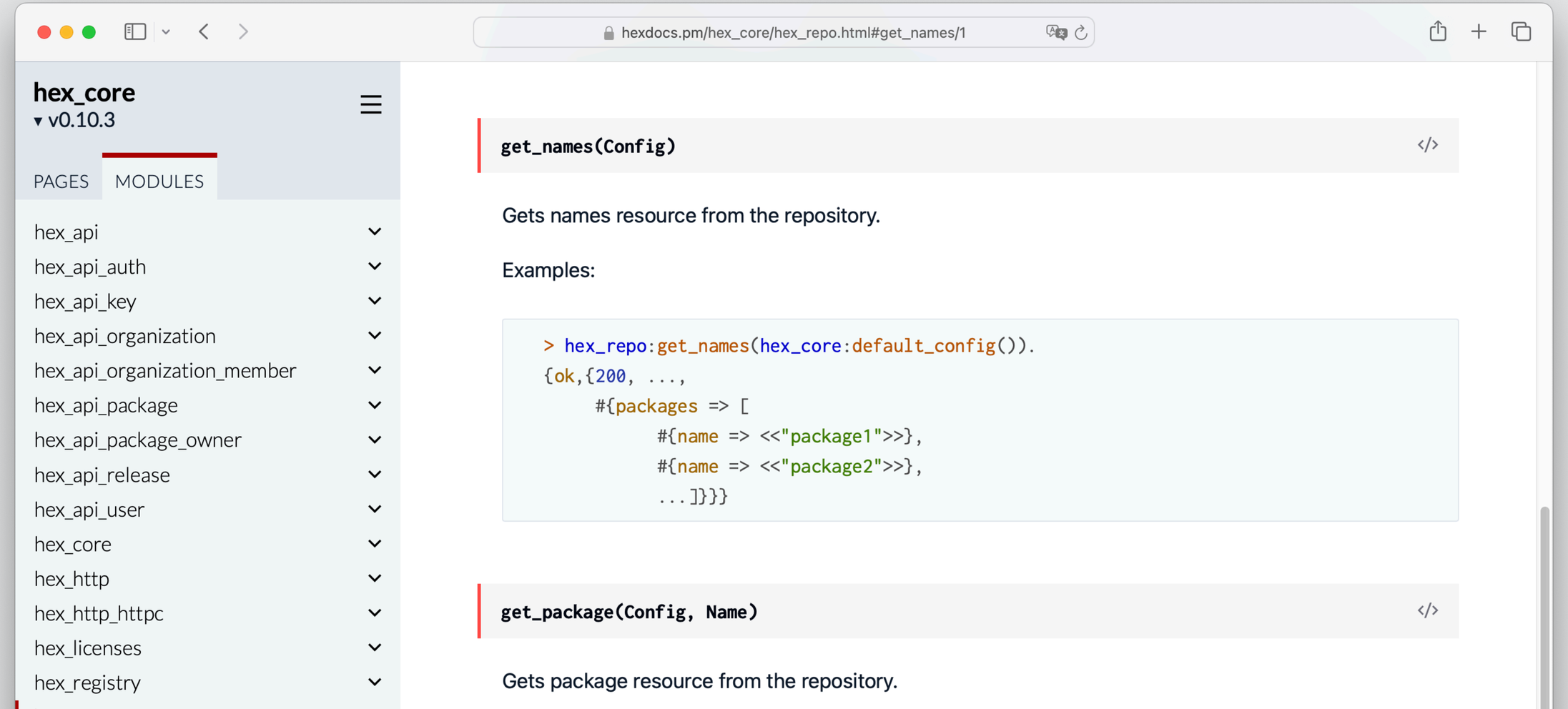
mix hex.info                                        # Prints Hex information
mix hex.info PACKAGE [VERSION]                      # Prints package information

mix hex.organization auth ORGANIZATION              # Authorize an organization
```

Hex for Rebar3



Hex Core


hexdocs.pm/hex_core/hex_repo.html#get_names/1
hex_core
v0.10.3
PAGES
MODULES
hex_api
hex_api_auth
hex_api_key
hex_api_organization
hex_api_organization_member
hex_api_package
hex_api_package_owner
hex_api_release
hex_api_user
hex_core
hex_http
hex_http_httpc
hex_licenses
hex_registry
get_names(Config)
Gets names resource from the repository.
Examples:
> hex_repo:get_names(hex_core:default_config()).
{ok,{200, ...,
#{packages => [
#{name => <<"package1">>},
#{name => <<"package2">>},
...]}}}
get_package(Config, Name)
Gets package resource from the repository.

Hex Repo

Hex Repo
Hexdocs

Hex Repo
Hexdocs
Hex Builds

Hex Repo
Hexdocs
Hex Builds
Hex Diff

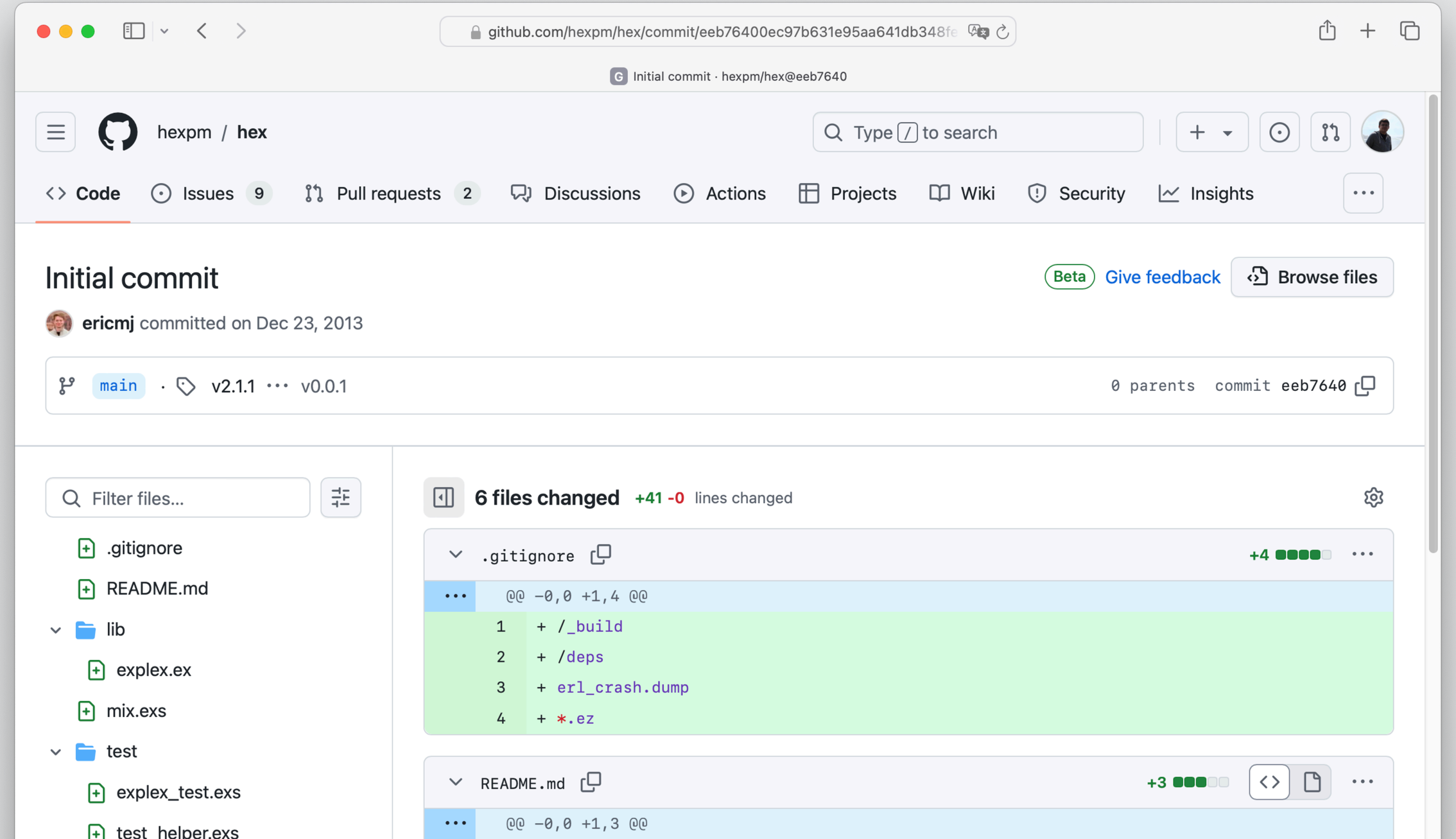
Hex Repo
Hexdocs
Hex Builds
Hex Diff
Hex Preview

Hex Core

Eric Meadows-Jönsson

Todd Resudek

Wojtek Mach


github.com/hexpm/hex/commit/eeb76400ec97b631e95aa641db348fe
Initial commit · hexpm/hex@eeb7640
hexpm / hex
Type / to search
Code
Issues 9
Pull requests 2
Discussions
Actions
Projects
Wiki
Security
Insights
Initial commit
Beta
Give feedback
Browse files
ericmj committed on Dec 23, 2013
main · v2.1.1 ··· v0.0.1
0 parents commit eeb7640
Filter files...
.gitignore
README.md
lib
explex.ex
mix.exs
test
explex_test.exs
test_helper.exs
6 files changed +41 -0 lines changed
.gitignore +4
@@ -0,0 +1,4 @@
1 + /_build
2 + /deps
3 + erl_crash.dump
4 + *.ez
README.md +3
@@ -0,0 +1,3 @@

Elixir v0.13.0 released, hex.pm and ElixirConf announced

April 21, 2014 · by José Valim · in Releases

Hello folks!

Elixir v0.13.0 has been released. It contains changes that will effectively shape how developers will write Elixir code from now on, making it an important milestone towards v1.0! On this post we are going to cover some of those changes, the road to Elixir v1.0, as well as the announcement of hex.pm.

Before we go into the changes, let's briefly talk about ElixirConf!

ElixirConf

News: Elixir v1.17 released

Search...

BLOG CATEGORIES

- Announcements
- Elixir in Production
- Internals
- Releases

IMPORTANT LINKS

- Development & Team

Maps

Maps are key-value data structures:

```
iex> map = %{"hello" => :world}
%{"hello" => :world}
iex> map["hello"]
:world
iex> map[:other]
nil
```

Maps do not have a explicit ordering and keys and values can be any term.

Maps can be pattern matched on:

```
iex> %{"hello" => world} = map
%{"hello" => :world}
iex> world
:world
iex> %{} = map
%{"hello" => :world}
```

Elixir v1.0 released

September 18, 2014 · by José Valim · in Releases

We are glad to announce Elixir v1.0 is finally out. It has been 8005 commits by 189 contributors, including the initial commit on January 9th, 2011!

What's Elixir?

Elixir is a dynamic, functional language designed for building scalable and maintainable applications.

Elixir leverages the Erlang VM, known for running low-latency, distributed and fault-tolerant systems, while also being successfully used in web development and the embedded software domain.

News: Elixir v1.17 released

Search...

BLOG CATEGORIES

- Announcements
- Elixir in Production
- Internals
- Releases

IMPORTANT LINKS

- Development & Team

github.com/hexpm/hexpm/pull/58

hexpm / hexpm

Type / to search

Code | Issues 12 | Pull requests 4 | Discussions | Actions | Projects 1 | Wiki | Security 1 | Insights

Fix postgres setup instruction #58

Edit | Code

Merged **ericmj** merged 1 commit into `hexpm:master` from `wojtekmach:fix_postgres_setup` on Oct 11, 2014

Conversation 0 | Commits 1 | Checks 0 | Files changed 1 | +1 −0

wojtekmach commented on Oct 11, 2014 — Member

When running migrations for the first time I saw this error:

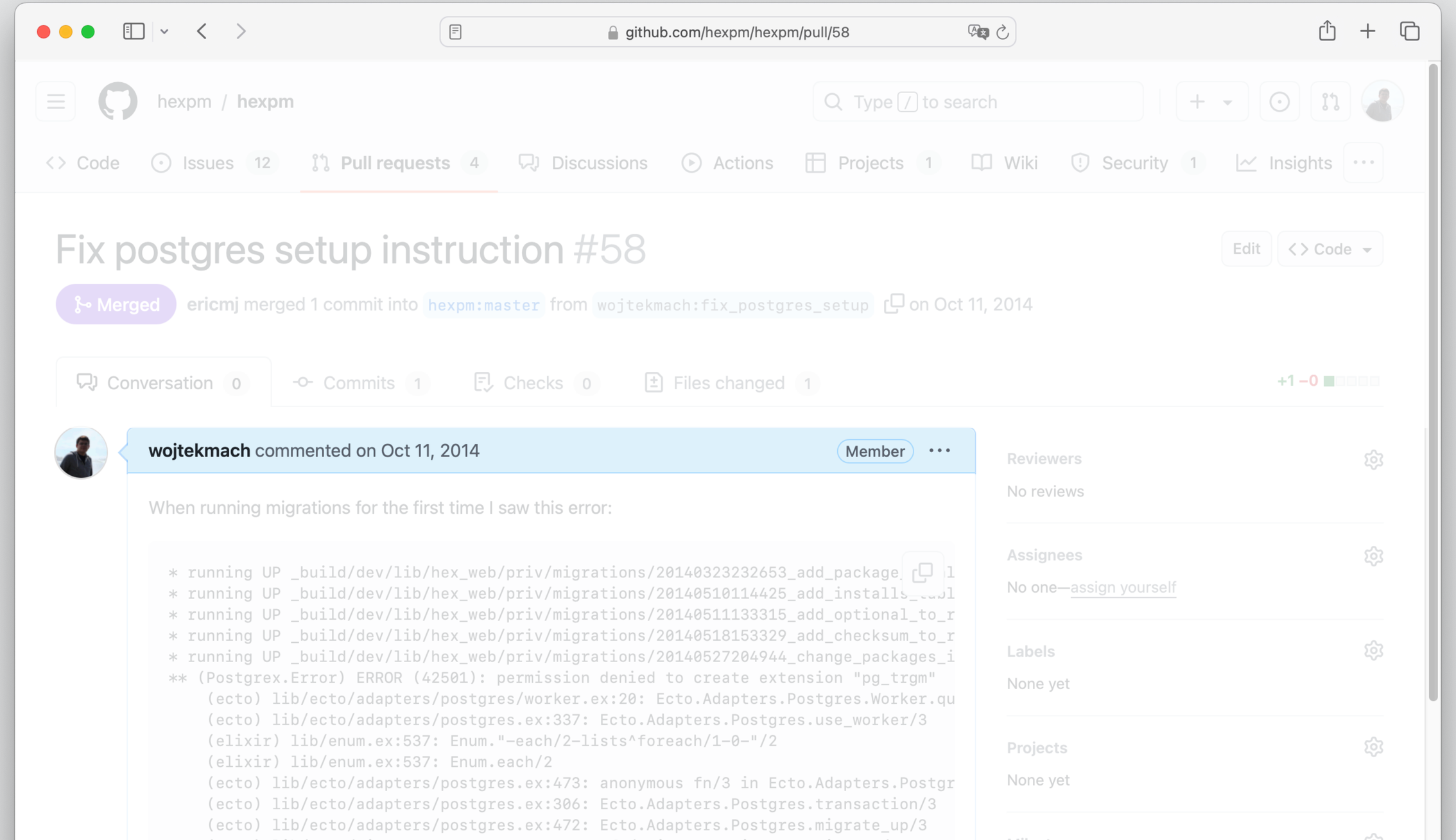
```
* running UP _build/dev/lib/hex_web/priv/migrations/20140323232653_add_package_
* running UP _build/dev/lib/hex_web/priv/migrations/20140510114425_add_installs_
* running UP _build/dev/lib/hex_web/priv/migrations/20140511133315_add_optional_to_r
* running UP _build/dev/lib/hex_web/priv/migrations/20140518153329_add_checksum_to_r
* running UP _build/dev/lib/hex_web/priv/migrations/20140527204944_change_packages_i
** (Postgrex.Error) ERROR (42501): permission denied to create extension "pg_trgm"
    (ecto) lib/ecto/adapters/postgres/worker.ex:20: Ecto.Adapters.Postgres.Worker.qu
    (ecto) lib/ecto/adapters/postgres.ex:337: Ecto.Adapters.Postgres.use_worker/3
    (elixir) lib/enum.ex:537: Enum."-each/2-lists^foreach/1-0-"/2
    (elixir) lib/enum.ex:537: Enum.each/2
    (ecto) lib/ecto/adapters/postgres.ex:473: anonymous fn/3 in Ecto.Adapters.Postgr
    (ecto) lib/ecto/adapters/postgres.ex:306: Ecto.Adapters.Postgres.transaction/3
    (ecto) lib/ecto/adapters/postgres.ex:472: Ecto.Adapters.Postgres.migrate_up/3
```

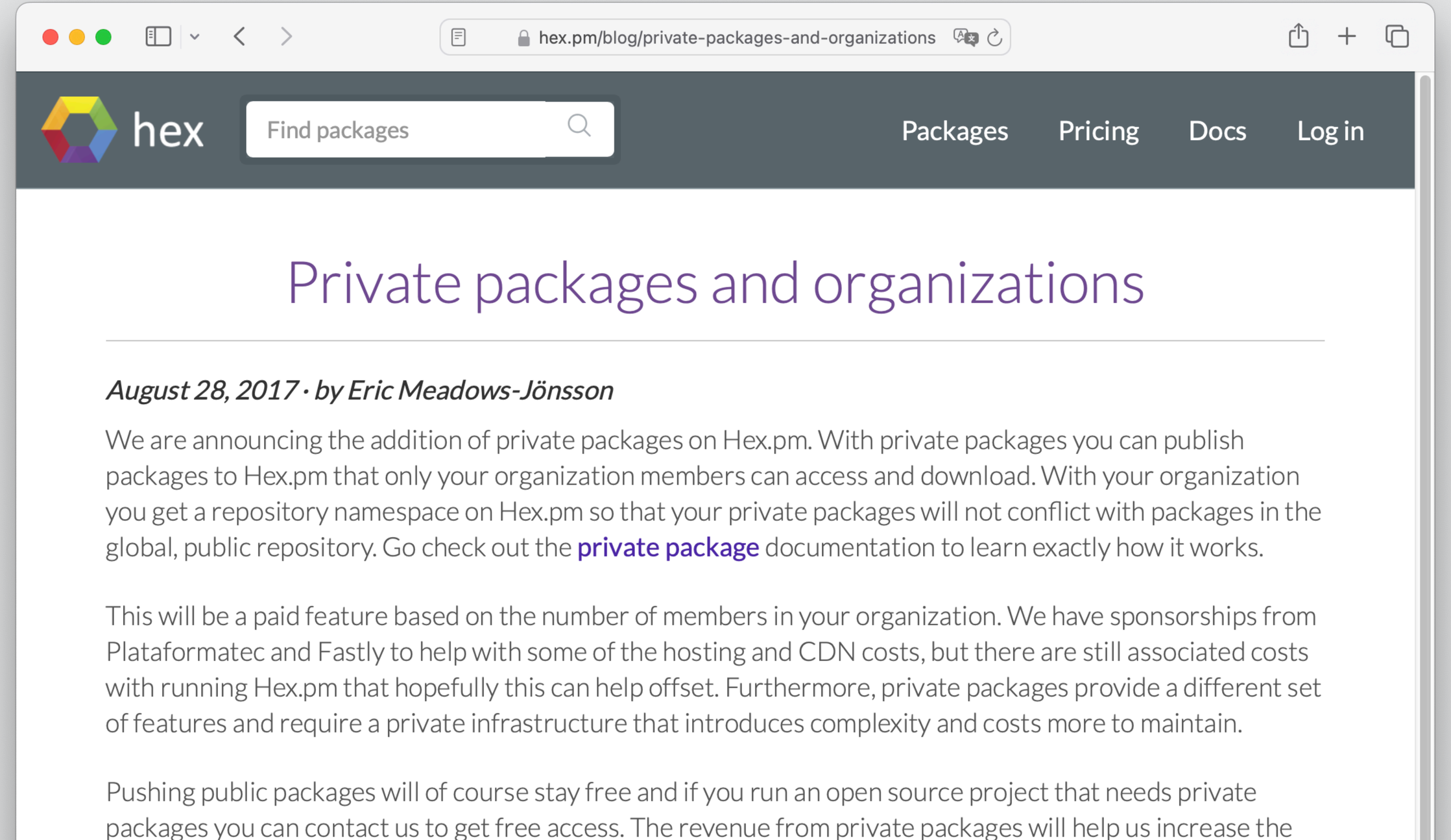
Reviewers
No reviews

Assignees
No one—assign yourself

Labels
None yet

Projects
None yet


github.com/hexpm/hexpm/pull/58
hexpm / hexpm
Type / to search
Code
Issues 12
Pull requests 4
Discussions
Actions
Projects 1
Wiki
Security 1
Insights
Fix postgres setup instruction #58
Edit
Code
Merged
ericmj merged 1 commit into hexpm:master from wojtekmach:fix_postgres_setup on Oct 11, 2014
Conversation 0
Commits 1
Checks 0
Files changed 1
+1 −0
wojtekmach commented on Oct 11, 2014
Member
When running migrations for the first time I saw this error:
* running UP _build/dev/lib/hex_web/priv/migrations/20140323232653_add_package
* running UP _build/dev/lib/hex_web/priv/migrations/20140510114425_add_installs
* running UP _build/dev/lib/hex_web/priv/migrations/20140511133315_add_optional_to_r
* running UP _build/dev/lib/hex_web/priv/migrations/20140518153329_add_checksum_to_r
* running UP _build/dev/lib/hex_web/priv/migrations/20140527204944_change_packages_i
** (Postgrex.Error) ERROR (42501): permission denied to create extension "pg_trgm"
(ecto) lib/ecto/adapters/postgres/worker.ex:20: Ecto.Adapters.Postgres.Worker.qu
(ecto) lib/ecto/adapters/postgres.ex:337: Ecto.Adapters.Postgres.use_worker/3
(elixir) lib/enum.ex:537: Enum."-each/2-lists^foreach/1-0-"/2
(elixir) lib/enum.ex:537: Enum.each/2
(ecto) lib/ecto/adapters/postgres.ex:473: anonymous fn/3 in Ecto.Adapters.Postgr
(ecto) lib/ecto/adapters/postgres.ex:306: Ecto.Adapters.Postgres.transaction/3
(ecto) lib/ecto/adapters/postgres.ex:472: Ecto.Adapters.Postgres.migrate_up/3
Reviewers
No reviews
Assignees
No one—assign yourself
Labels
None yet
Projects
None yet



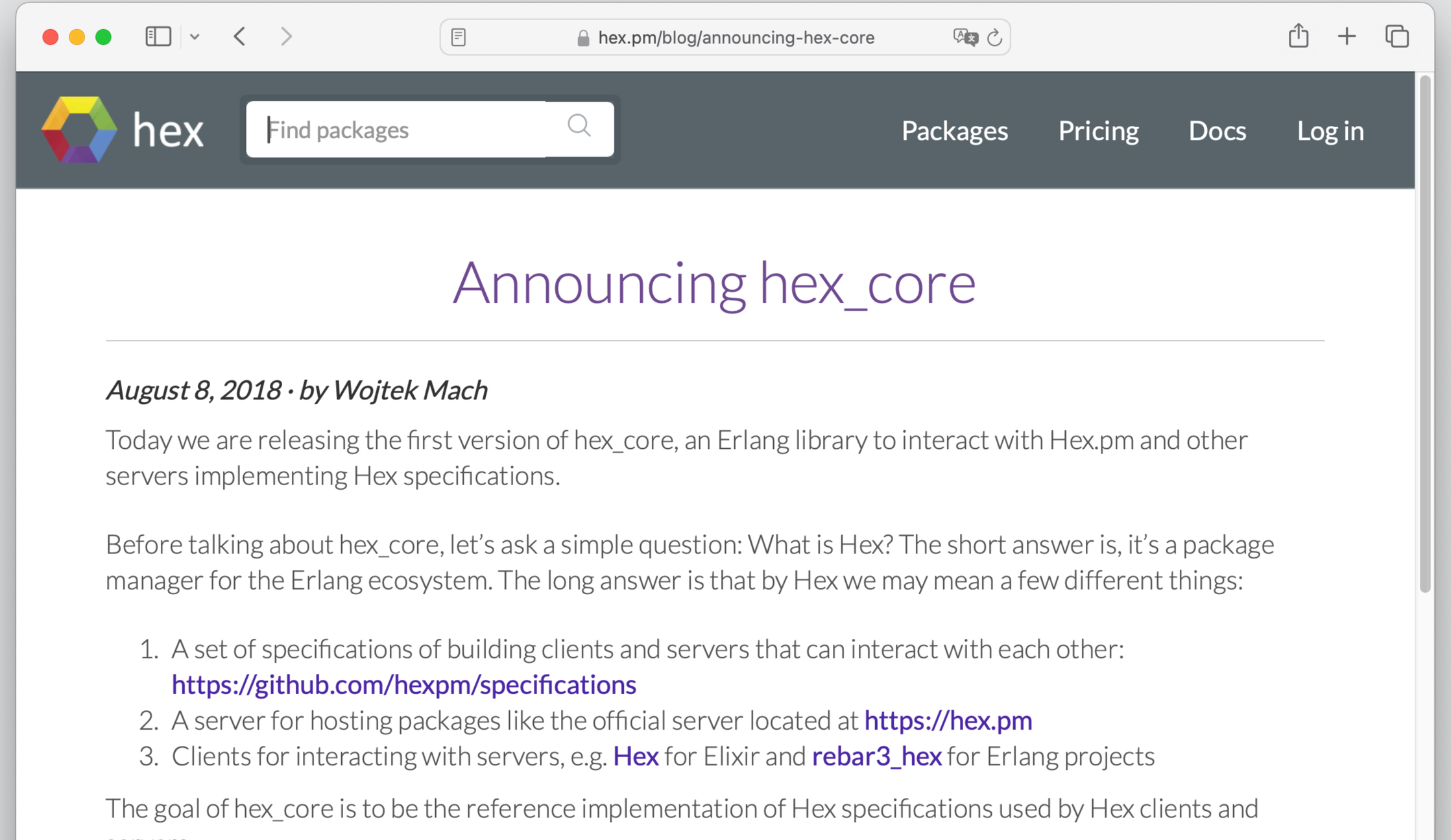
Private packages and organizations

August 28, 2017 · by Eric Meadows-Jönsson

We are announcing the addition of private packages on Hex.pm. With private packages you can publish packages to Hex.pm that only your organization members can access and download. With your organization you get a repository namespace on Hex.pm so that your private packages will not conflict with packages in the global, public repository. Go check out the **private package** documentation to learn exactly how it works.

This will be a paid feature based on the number of members in your organization. We have sponsorships from Plataformatec and Fastly to help with some of the hosting and CDN costs, but there are still associated costs with running Hex.pm that hopefully this can help offset. Furthermore, private packages provide a different set of features and require a private infrastructure that introduces complexity and costs more to maintain.

Pushing public packages will of course stay free and if you run an open source project that needs private packages you can contact us to get free access. The revenue from private packages will help us increase the



Announcing hex_core

August 8, 2018 · by Wojtek Mach

Today we are releasing the first version of hex_core, an Erlang library to interact with Hex.pm and other servers implementing Hex specifications.

Before talking about hex_core, let's ask a simple question: What is Hex? The short answer is, it's a package manager for the Erlang ecosystem. The long answer is that by Hex we may mean a few different things:

1. A set of specifications of building clients and servers that can interact with each other: **https://github.com/hexpm/specifications**
2. A server for hosting packages like the official server located at **https://hex.pm**
3. Clients for interacting with servers, e.g. **Hex** for Elixir and **rebar3_hex** for Erlang projects

The goal of hex_core is to be the reference implementation of Hex specifications used by Hex clients and

Hex v0.20 released

10 June, 2019 · by Eric Meadows-Jönsson

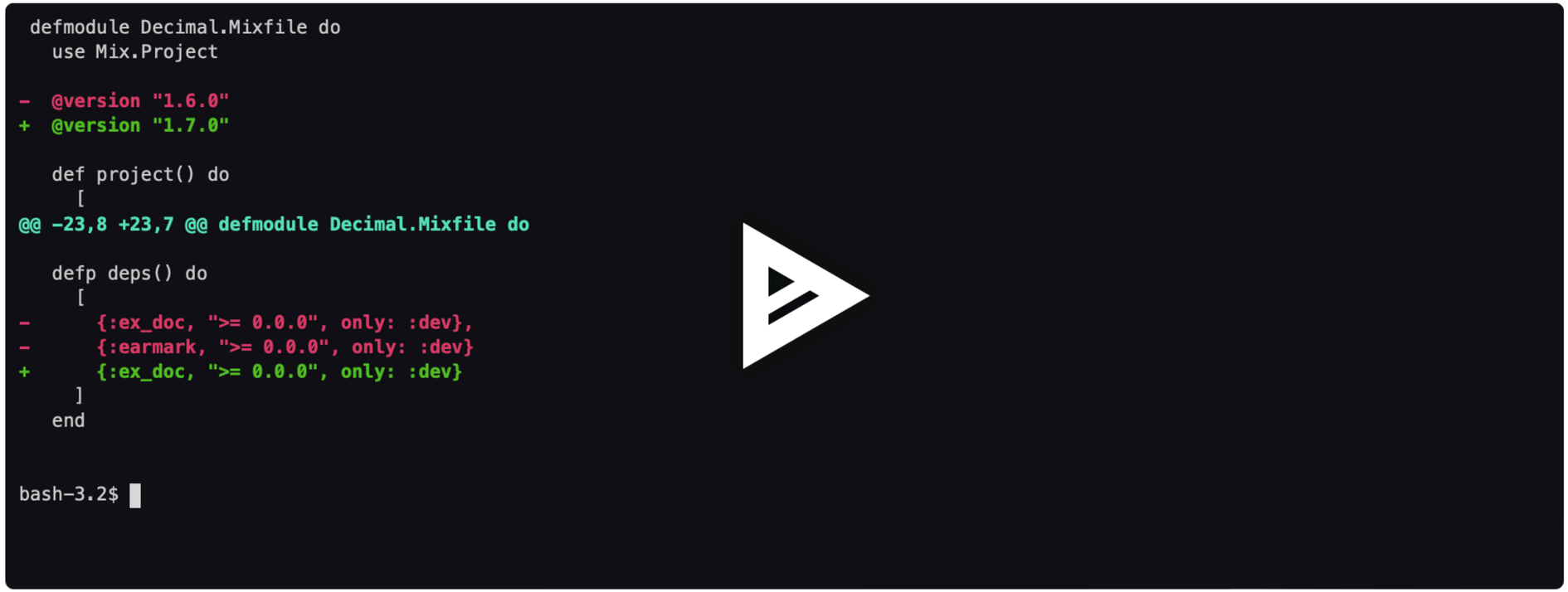
Organization managed public packages

A bit more than year ago we released private packages with organizations. With it you can add members to your organization and publish private packages only accessible by the members of the organization. The private packages are published to a separate repository (hosted by hex.pm) making sure they are separate from public packages.

Now we are adding the ability to also manage public packages through your organizations. This means that a company such as Plataformatec can use Hex organizations to manage open source Hex packages just like private packages can be managed by organizations. It can also be useful for open source projects that manage multiple packages with multiple maintainers.

Diffing package versions

The new `mix hex.package diff` command shows the difference between two package versions directly in the command line. By calling `mix hex.package diff decimal 1.6.0..1.7.0` you will see a diff of the two versions. See the video below for examples on how you can combine it with `colordiff` and `less`.



Recorded with **asciinema**

```
$ mix hex.package fetch decimal
```

```
$ mix hex.package fetch decimal
decimal v2.1.1 downloaded to /Users/wojtek/decimal-2.1.1.tar
$
```

```
$ mix hex.package fetch decimal --unpack
```

```
$ mix hex.package fetch decimal --unpack
decimal v2.1.1 extracted to /Users/wojtek/decimal-2.1.1
$
```

```
$ mix hex.package diff decimal 2.1.0..2.1.1
```

```
@@ -1,5 +1,13 @@
 # CHANGELOG

+## v2.1.1 (2023-04-26)
+
+Decimal v2.1 requires Elixir v1.8+.
+
+### Bug fixes
+
+* Fix `Decimal.compare/2` when comparing against `0`
+
 ## v2.1.0 (2023-04-26)

 Decimal v2.1 requires Elixir v1.8+.
diff --git a/var/folders/mb/mv73n10n1kjd8gdymvf_4j0w0000gn/T/decimal-2.1.0-CA950D90/h
ex_metadata.config b/var/folders/mb/mv73n10n1kjd8gdymvf_4j0w0000gn/T/decimal-2.1.1-16
F7B1D1/hex_metadata.config
index e34c1e3..f83241f 100644
--- a/var/folders/mb/mv73n10n1kjd8gdymvf_4j0w0000gn/T/decimal-2.1.0-CA950D90/hex_meta
:
```

github.com/hexpm/hexpm/issues/848

hexpm / **hexpm**

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Web based package diffs #848

Edit | New issue

Closed **joladev** opened this issue on Sep 8, 2019 · 6 comments

joladev commented on Sep 8, 2019 • edited — Contributor

Hi! I wanted to bring this issue up for discussion. I'll try to describe the importance of package diffs, existing solutions, some possible architectures and some possible solutions that might fit hex.pm. By web-based diffs I mean highlighted outputs from `git diff` in a browser, with shareable links.

We first started seeing npm packages get hijacked, but recently RubyGems has been having issues (rest_client, strong_password, many others). By hijacking I mean the the type of attack where someone gets access to the credentials of the author of a package and uploads malicious versions. Some examples of scenarios:

Assignees

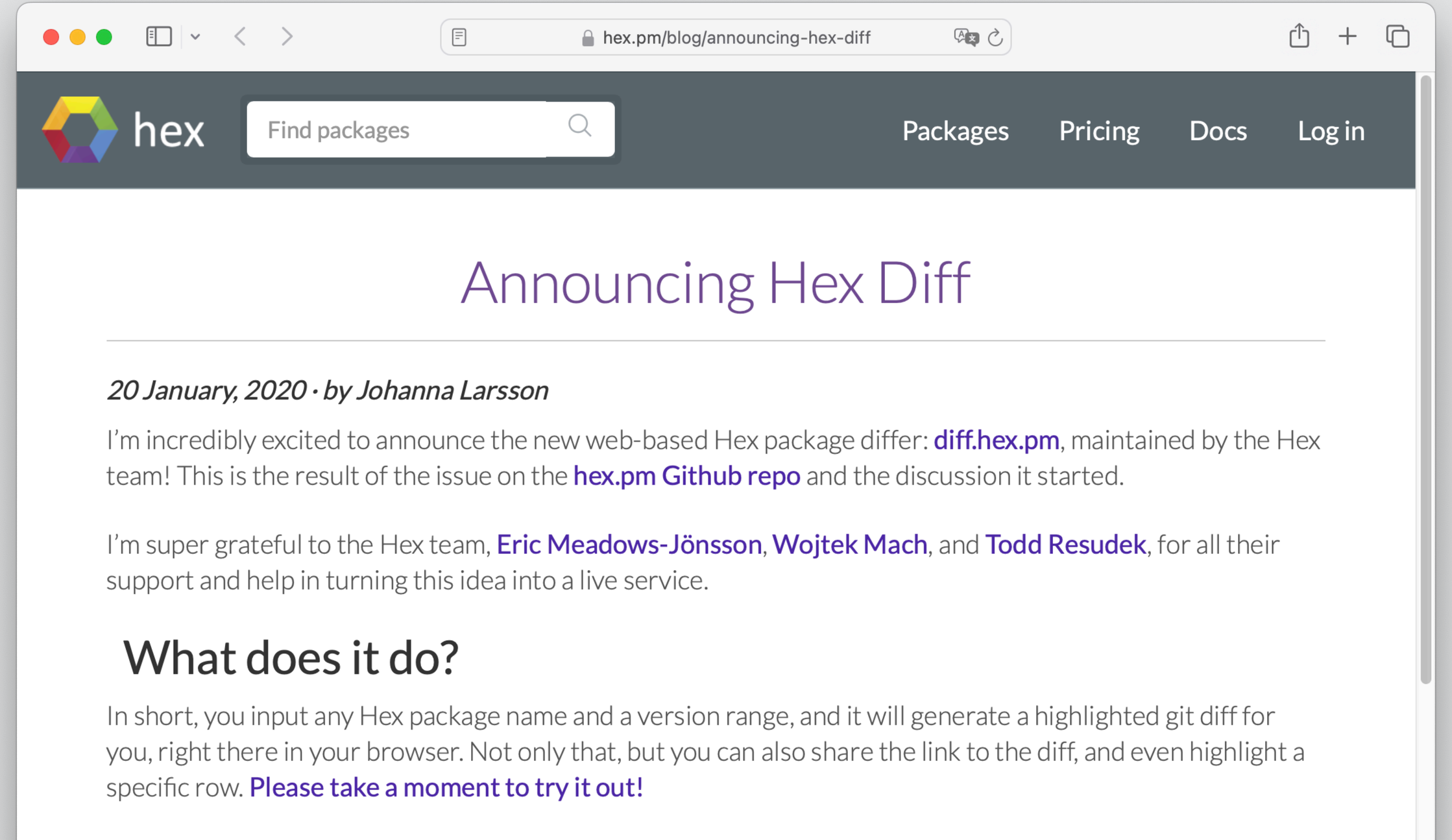
No one—assign yourself

Labels

Note:Discussion

Projects

None yet



Announcing Hex Diff

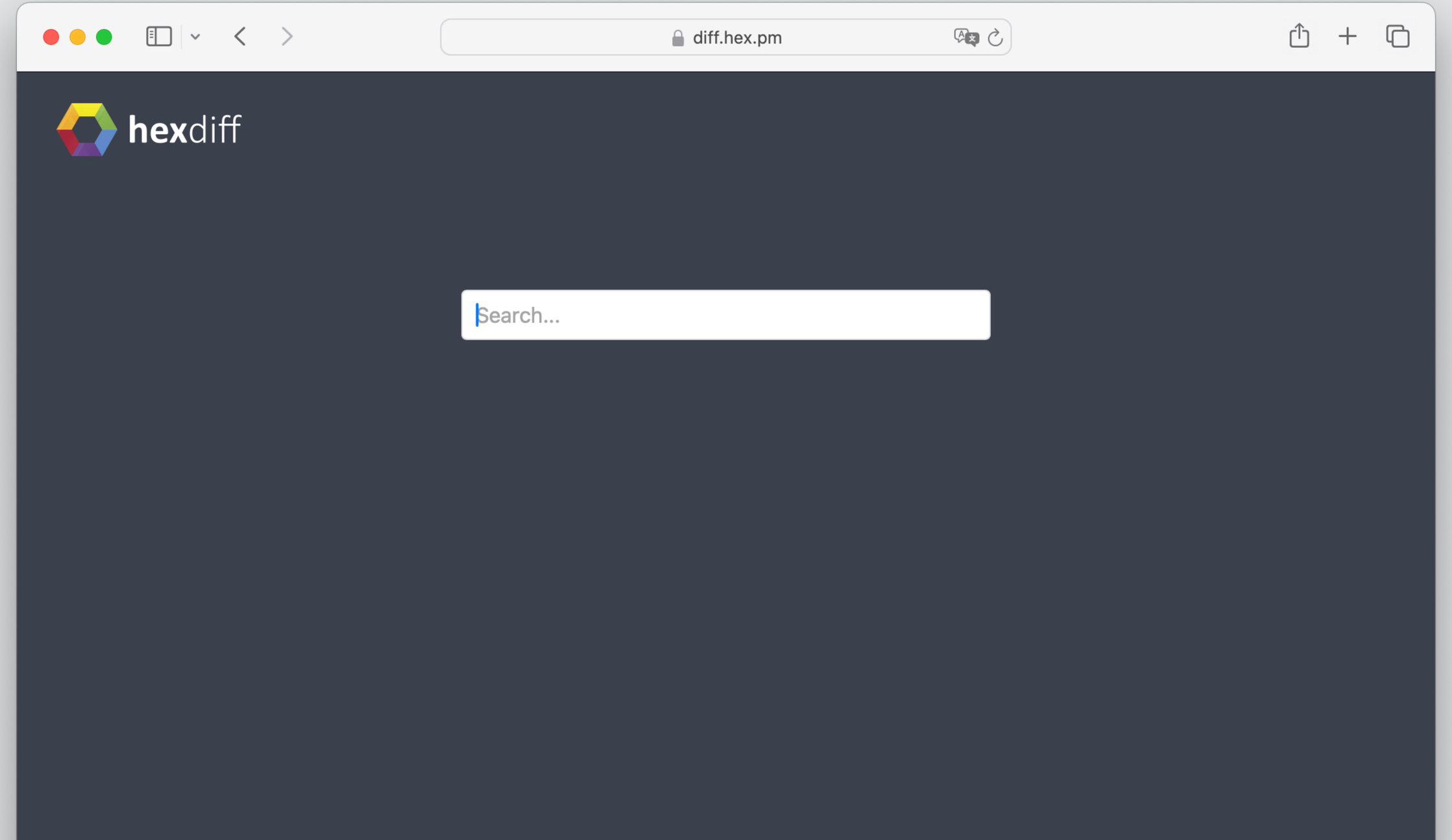
20 January, 2020 · by Johanna Larsson

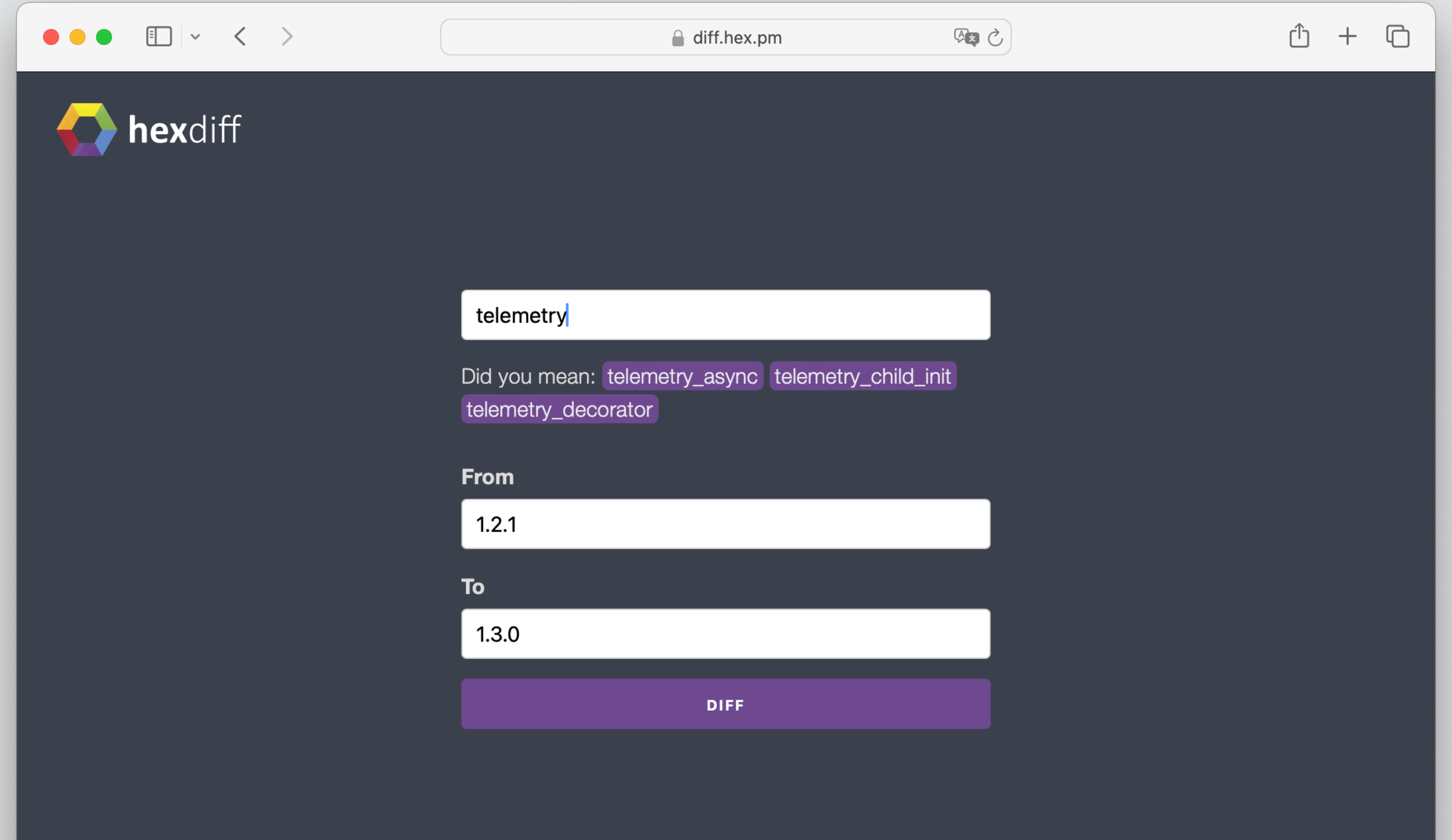
I'm incredibly excited to announce the new web-based Hex package differ: **diff.hex.pm**, maintained by the Hex team! This is the result of the issue on the **hex.pm Github repo** and the discussion it started.

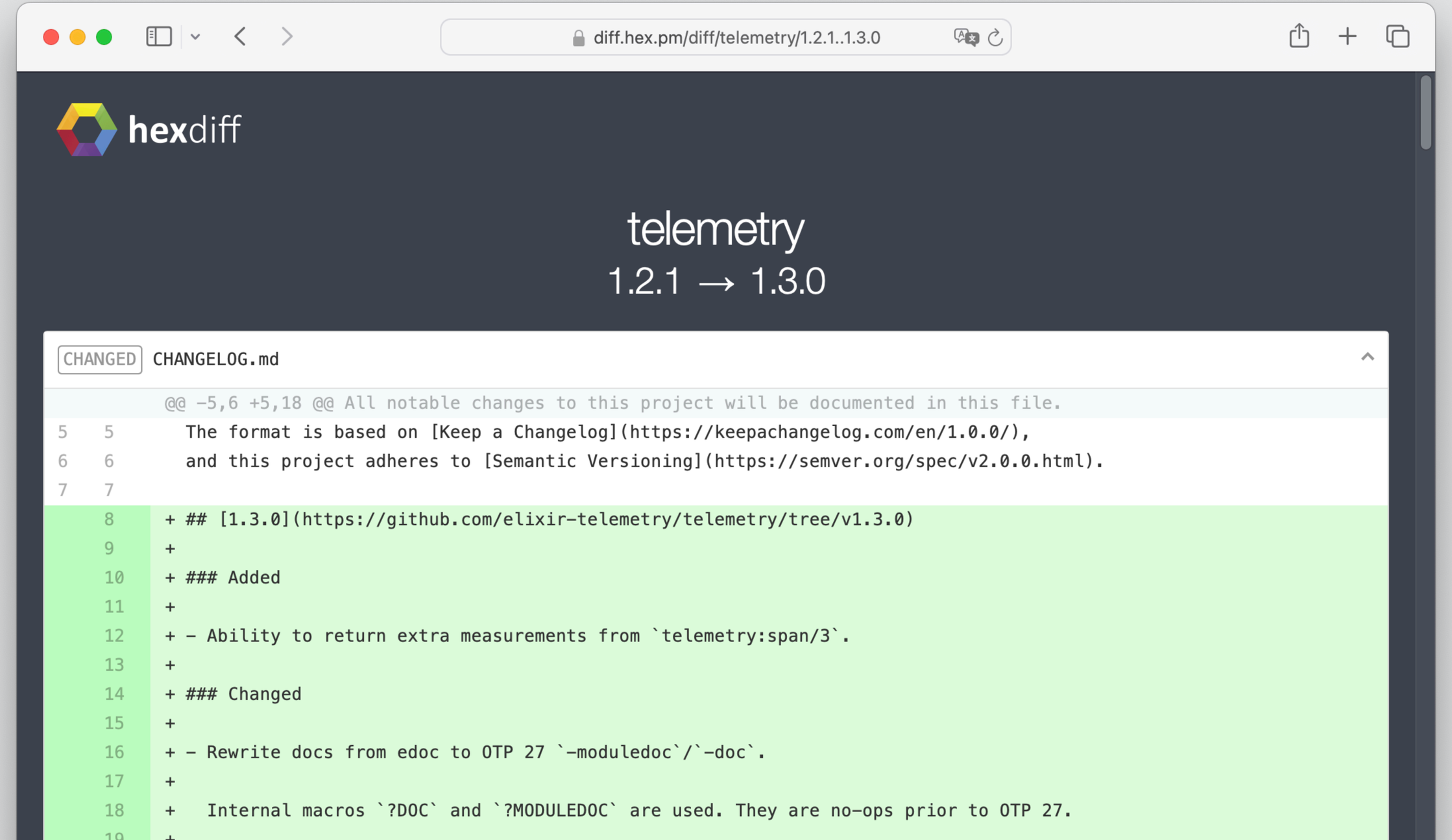
I'm super grateful to the Hex team, **Eric Meadows-Jönsson**, **Wojtek Mach**, and **Todd Resudek**, for all their support and help in turning this idea into a live service.

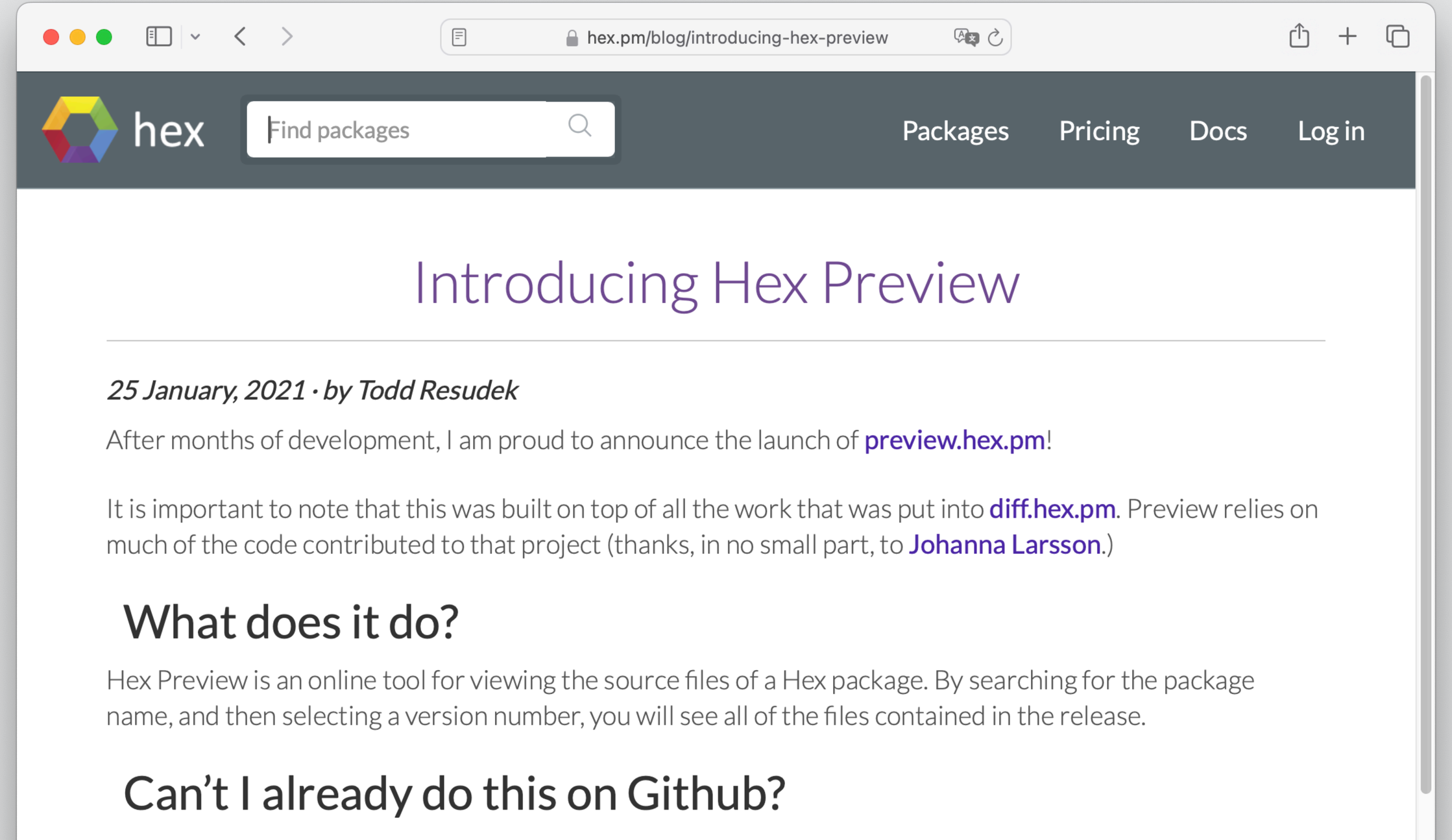
What does it do?

In short, you input any Hex package name and a version range, and it will generate a highlighted git diff for you, right there in your browser. Not only that, but you can also share the link to the diff, and even highlight a specific row. **Please take a moment to try it out!**


diff.hex.pm
hexdiff
Search...


diff.hex.pm
hexdiff
telemetry
Did you mean: telemetry_async telemetry_child_init telemetry_decorator
From
1.2.1
To
1.3.0
DIFF


diff.hex.pm/diff/telemetry/1.2.1..1.3.0
hexdiff
telemetry
1.2.1 → 1.3.0
CHANGED CHANGELOG.md
@@ -5,6 +5,18 @@ All notable changes to this project will be documented in this file.
The format is based on [Keep a Changelog](https://keepachangelog.com/en/1.0.0/),
and this project adheres to [Semantic Versioning](https://semver.org/spec/v2.0.0.html).
+ ## [1.3.0](https://github.com/elixir-telemetry/telemetry/tree/v1.3.0)
+ ### Added
+ - Ability to return extra measurements from `telemetry:span/3`.
+ ### Changed
+ - Rewrite docs from edoc to OTP 27 `-moduledoc`/`-doc`.
+ Internal macros `?DOC` and `?MODULEDOC` are used. They are no-ops prior to OTP 27.



Introducing Hex Preview

25 January, 2021 · by Todd Resudek

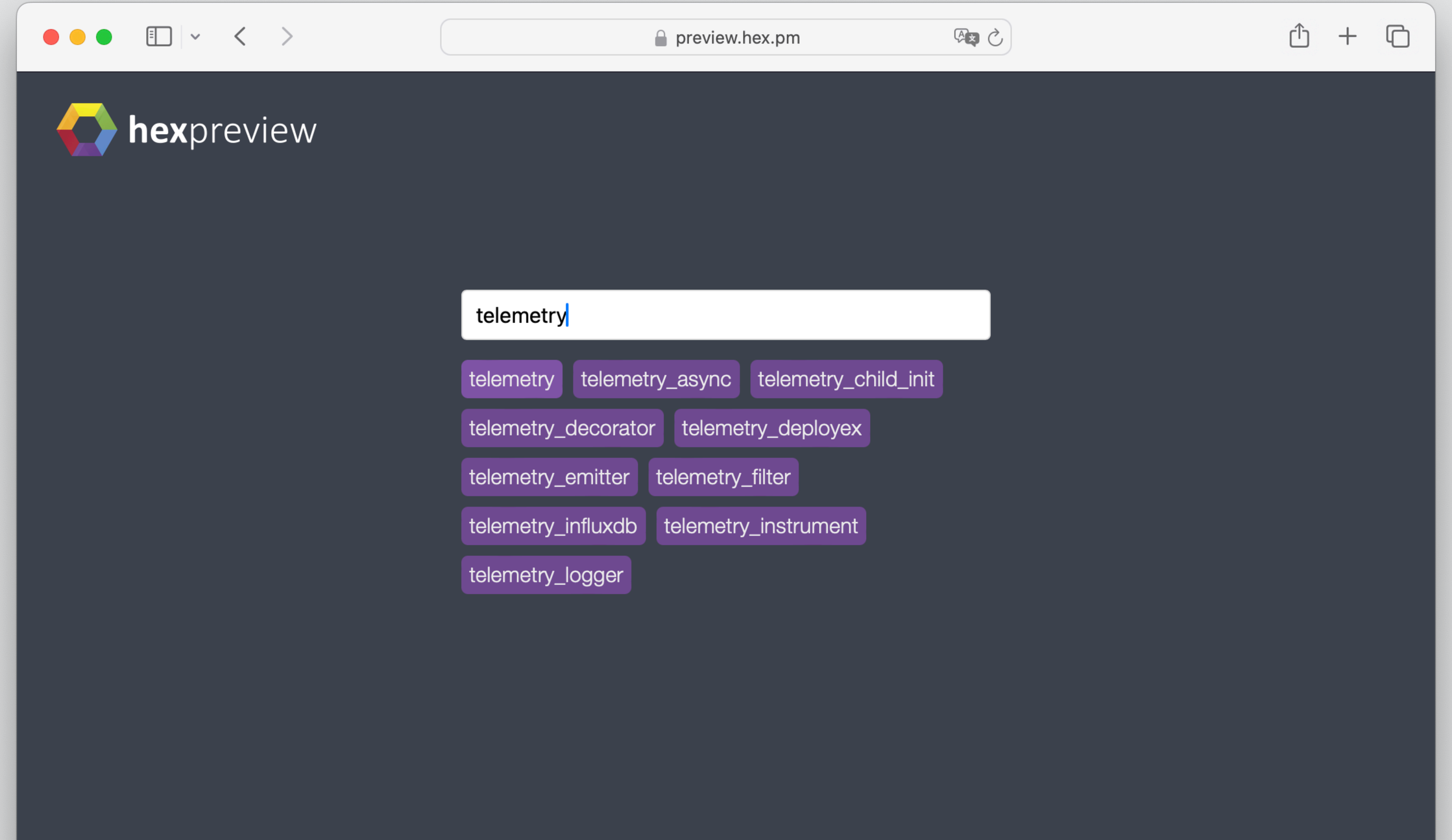
After months of development, I am proud to announce the launch of **preview.hex.pm**!

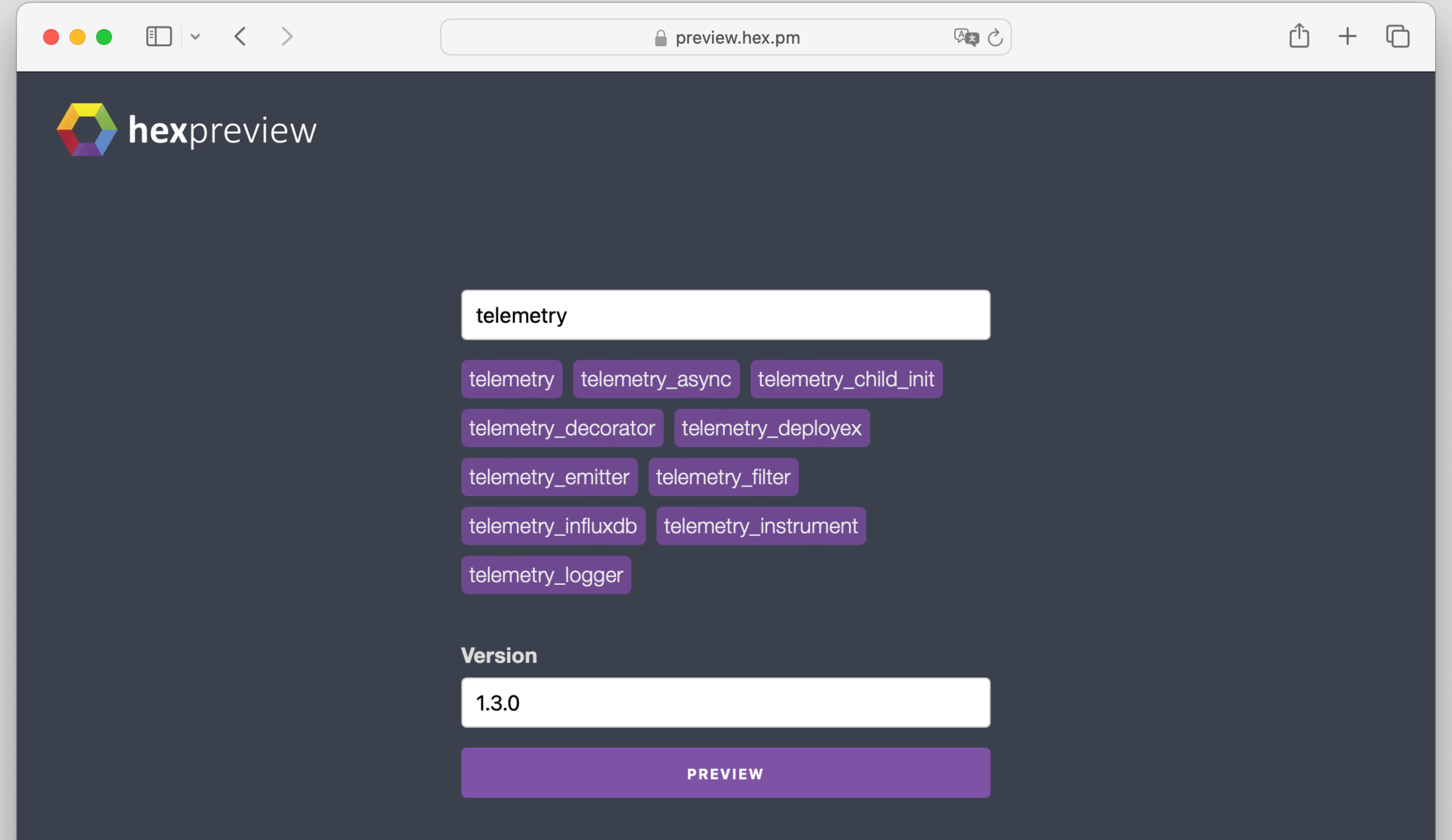
It is important to note that this was built on top of all the work that was put into **diff.hex.pm**. Preview relies on much of the code contributed to that project (thanks, in no small part, to **Johanna Larsson**.)

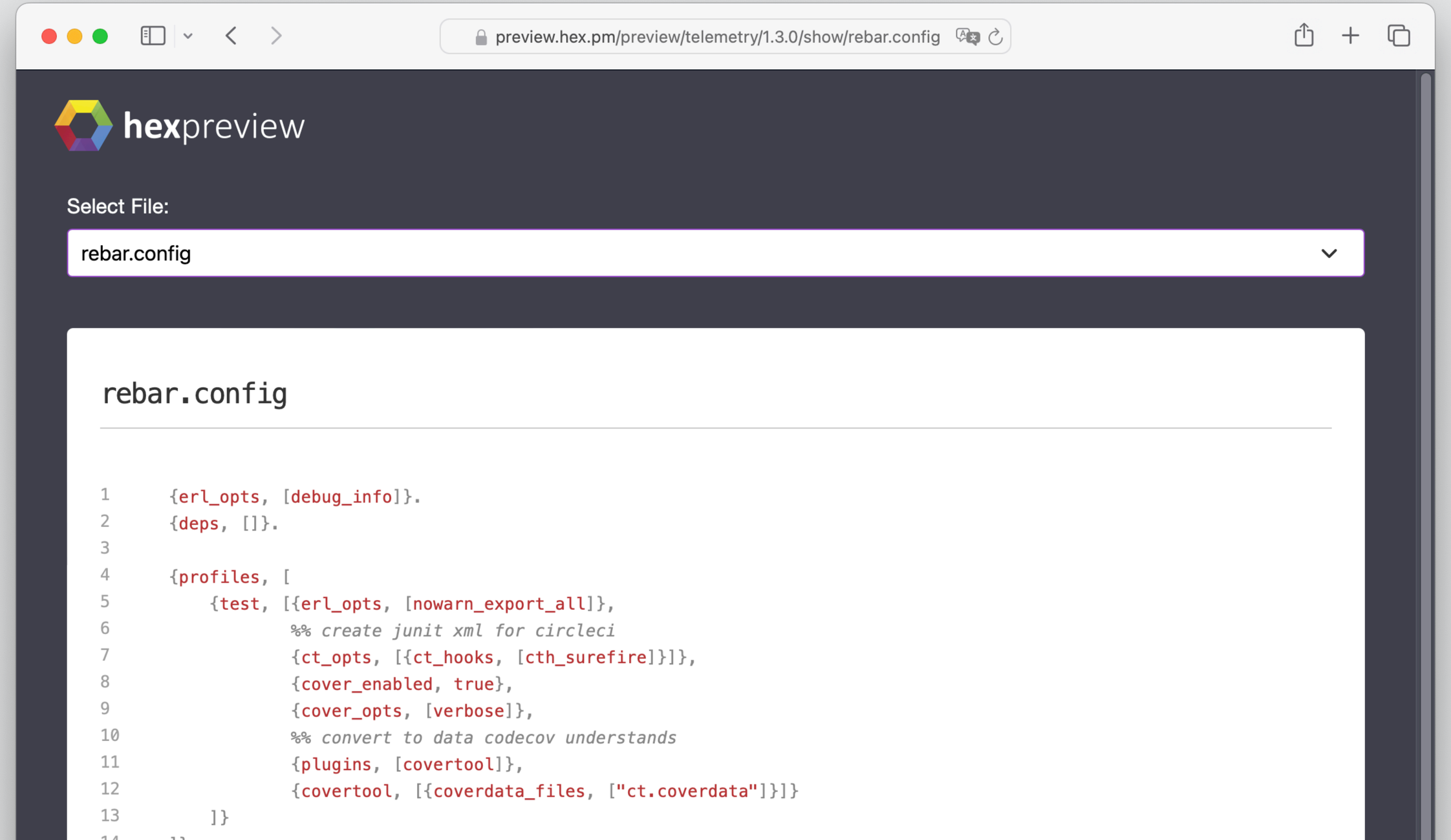
What does it do?

Hex Preview is an online tool for viewing the source files of a Hex package. By searching for the package name, and then selecting a version number, you will see all of the files contained in the release.

Can't I already do this on Github?


preview.hex.pm
hexpreview
telemetry
telemetry
telemetry_async
telemetry_child_init
telemetry_decorator
telemetry_deployex
telemetry_emitter
telemetry_filter
telemetry_influxdb
telemetry_instrument
telemetry_logger


preview.hex.pm
hexpreview
telemetry
telemetry
telemetry_async
telemetry_child_init
telemetry_decorator
telemetry_deployex
telemetry_emitter
telemetry_filter
telemetry_influxdb
telemetry_instrument
telemetry_logger
Version
1.3.0
PREVIEW


preview.hex.pm/preview/telemetry/1.3.0/show/rebar.config
hexpreview
Select File:
rebar.config
rebar.config
{erl_opts, [debug_info]}.
{deps, []}.
{profiles, [
{test, [{erl_opts, [nowarn_export_all]},
%% create junit xml for circleci
{ct_opts, [{ct_hooks, [cth_surefire]}]},
{cover_enabled, true},
{cover_opts, [verbose]},
%% convert to data codecov understands
{plugins, [covertool]},
{covertool, [{coverdata_files, ["ct.coverdata"]}]}
]}

hex.pm/packages/decimal

hex

Find packages

Packages Pricing Docs Log in

decimal 2.1.1

Arbitrary precision decimal arithmetic.

Links

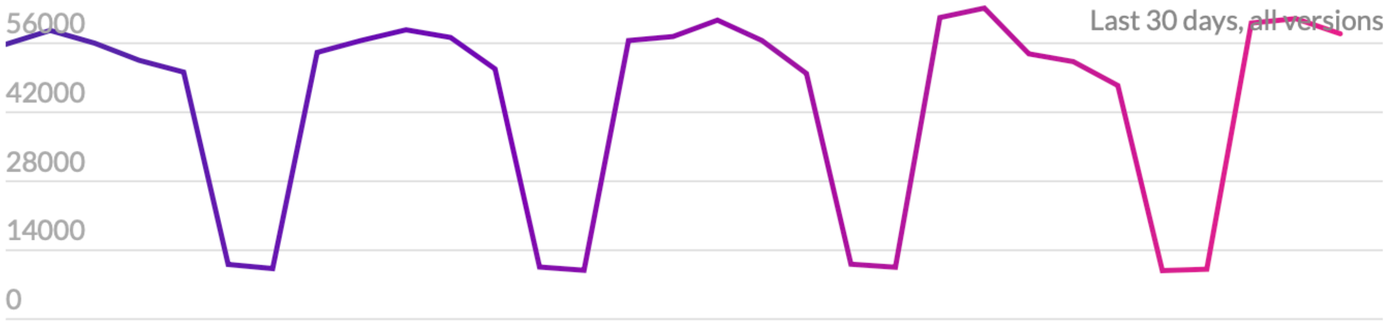
Online documentation

GitHub

License

Apache-2.0

Downloads



Config

mix.exs

```
{:decimal, "~> 2.1"}
```

rebar.config

```
{decimal, "2.1.1"}
```

erlang.mk

```
dep_decimal = hex 2.1.1
```

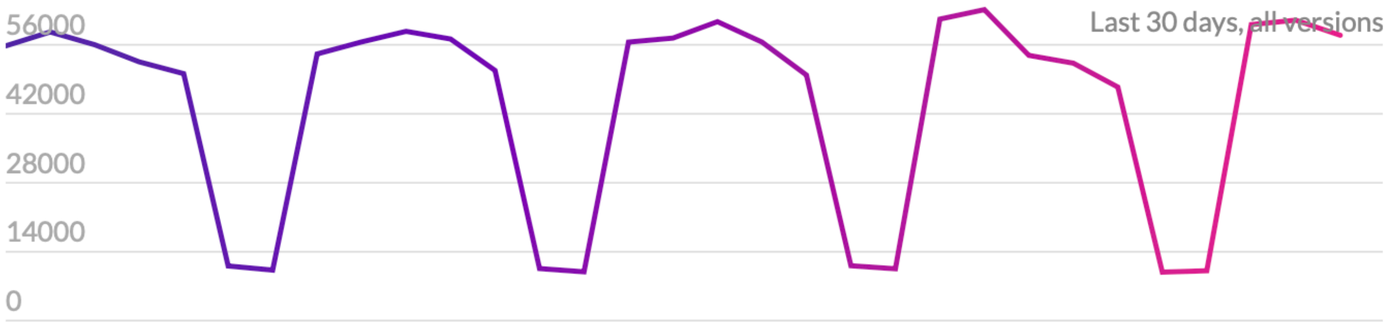
Checksum

```
53cfe5f497ed0e7771a
```

Build Tools

hex.pm/packages/decimal

Downloads



16 015 664	57 243	293 855	129 598 185
this version	yesterday	last 7 days	all time

Versions (29)

2.1.1 Apr 26, 2023
2.1.0 Apr 26, 2023
2.0.0 Sep 08, 2020
2.0.0-rc.0 Jan 21, 2020
1.9.0 Sep 08, 2020
Show All Versions

Dependencies (0)

rebar.config

```
{decimal, "2.1.1"}
```

erlang.mk

```
dep_decimal = hex 2.1.1
```

Checksum

```
53cfe5f497ed0e7771a
```

Build Tools

mix

Owners

ericmj
wojtekmach

Publisher

ericmj

Dependents (210)

jason, ecto, postgrex, poison, absinthe, logger_json, open_api_spex, ex_json_schema, number,

hex.pm/packages/decimal

Downloads

16 015 664	57 243	293 855	129 598 185
this version	yesterday	last 7 days	all time

Versions (29)

2.1.1 Apr 26, 2023
2.1.0 Apr 26, 2023
2.0.0 Sep 08, 2020
2.0.0-rc.0 Jan 21, 2020
1.9.0 Sep 08, 2020
Show All Versions

Dependencies (0)

rebar.config

```
{decimal, "2.1.1"}
```

erlang.mk

```
dep_decimal = hex 2.1.1
```

Checksum

53cfe5f497ed0e7771a

Build Tools

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Downloads

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this version	yesterday	last 7 days	all time

Versions (29)

2.1.1 Apr 26, 2023
2.1.0 Apr 26, 2023
2.0.0 Sep 08, 2020
2.0.0-rc.0 Jan 21, 2020
1.9.0 Sep 08, 2020
Show All Versions

Hexdocs

Dependencies (0)

rebar.config

```
{decimal, "2.1.1"}
```

erlang.mk

```
dep_decimal = hex 2.1.1
```

Checksum

53cfe5f497ed0e7771a

Build Tools

mix

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Dependents (210)

jason, ecto, postgrex, poison, absinthe, logger_json, open_api_spex, ex_json_schema, number,

hex.pm/packages/decimal

Downloads

16 015 664	57 243	293 855	129 598 185
this version	yesterday	last 7 days	all time

Versions (29)

2.1.1 Apr 26, 2023
2.1.0 Apr 26, 2023
2.0.0 Sep 08, 2020
2.0.0-rc.0 Jan 21, 2020
1.9.0 Sep 08, 2020
Show All Versions

Hex Diff

Dependencies (0)

rebar.config

```
{decimal, "2.1.1"}
```

erlang.mk

```
dep_decimal = hex 2.1.1
```

Checksum

53cfe5f497ed0e7771a

Build Tools

mix

Owners

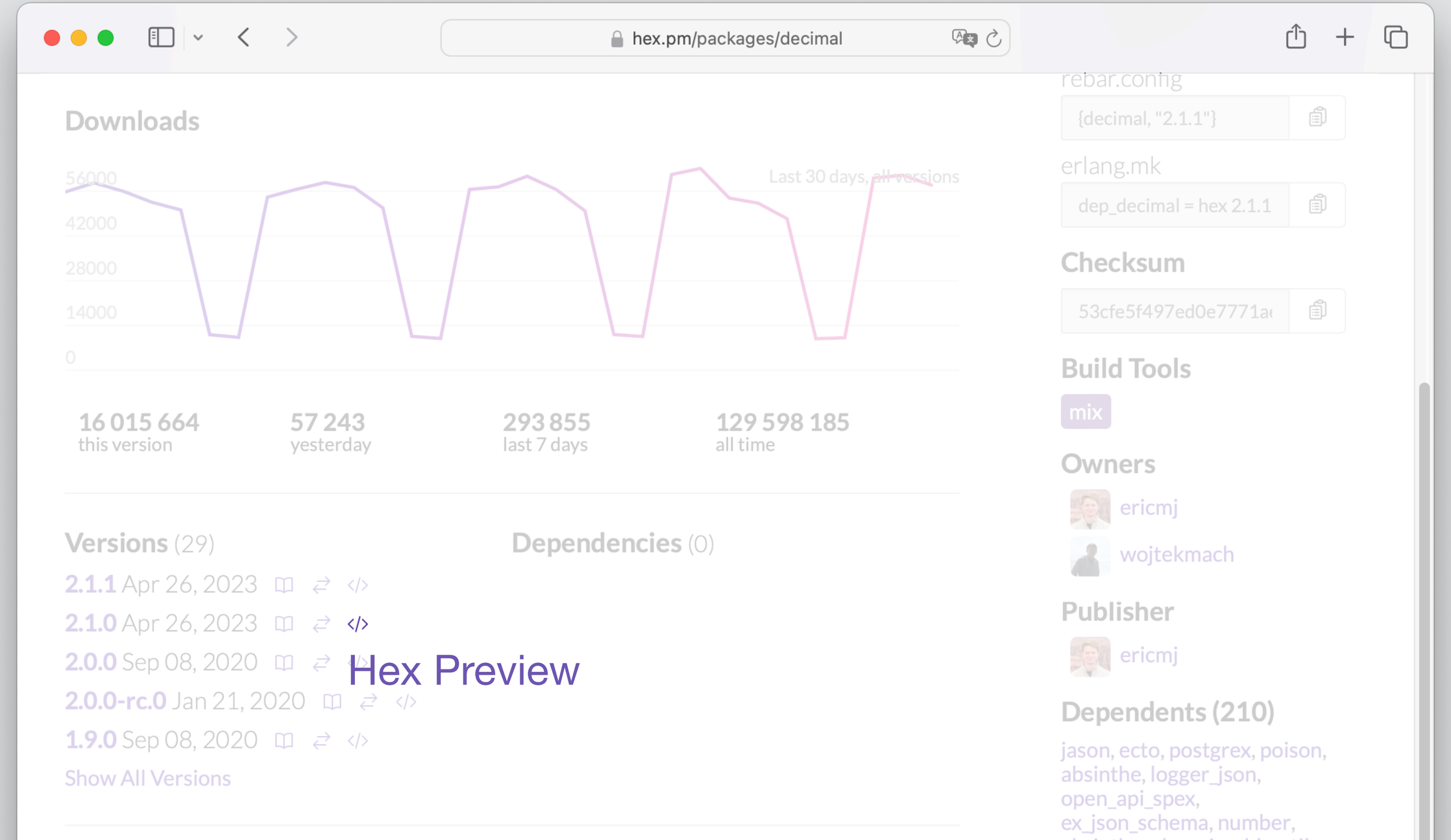
ericmj
wojtekmach

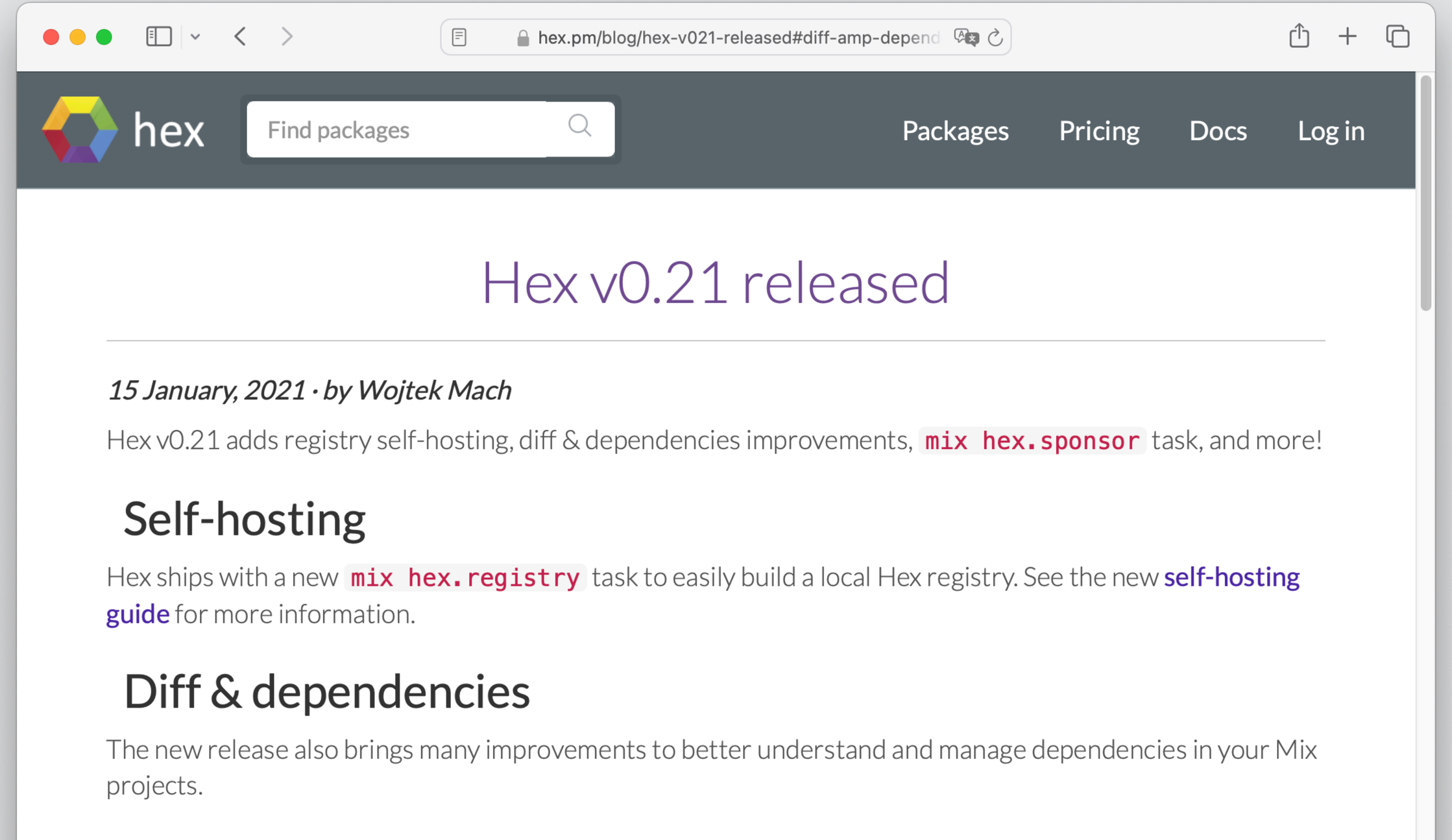
Publisher

ericmj

Dependents (210)

jason, ecto, postgrex, poison, absinthe, logger_json, open_api_spex, ex_json_schema, number,


hex.pm/packages/decimal
Downloads
56000
42000
28000
14000
0
Last 30 days, all versions
16 015 664
this version
57 243
yesterday
293 855
last 7 days
129 598 185
all time
Versions (29)
2.1.1 Apr 26, 2023
2.1.0 Apr 26, 2023
2.0.0 Sep 08, 2020
2.0.0-rc.0 Jan 21, 2020
1.9.0 Sep 08, 2020
Show All Versions
Dependencies (0)
Hex Preview
rebar.config
{decimal, "2.1.1"}
erlang.mk
dep_decimal = hex 2.1.1
Checksum
53cfe5f497ed0e7771a
Build Tools
mix
Owners
ericmj
wojtekmach
Publisher
ericmj
Dependents (210)
jason, ecto, postgrex, poison, absinthe, logger_json, open_api_spex, ex_json_schema, number,



Hex v0.21 released

15 January, 2021 · by Wojtek Mach

Hex v0.21 adds registry self-hosting, diff & dependencies improvements, `mix hex.sponsor` task, and more!

Self-hosting

Hex ships with a new `mix hex.registry` task to easily build a local Hex registry. See the new **self-hosting guide** for more information.

Diff & dependencies

The new release also brings many improvements to better understand and manage dependencies in your Mix projects.

Building the registry

Hex v0.21 introduced the `mix hex.registry build` task which provides an easy way to build a local registry.

`mix hex.registry build` needs three things:

- the name of the registry
- a directory to hold public files
- a private key used to sign the registry.

Let's create an "acme" registry, generate a random private key, a `public` directory, and finally let's build the registry:

```
$ mkdir acme
$ cd acme
$ openssl genrsa -out private_key.pem
$ mkdir public
$ mix hex.registry build public --name=acme --private-key=private_key.pem
* creating public/public_key
* creating public/tarballs
* creating public/names
* creating public/versions
```

```
$ mix hex.outdated
```

```
$ mix hex.outdated
Dependency      Current  Latest  Status
aws_signature   0.3.2    0.3.2   Up-to-date
bandit          1.5.7    1.5.7   Up-to-date
brotli          0.3.2    0.3.2   Up-to-date
bypass          2.1.0    2.1.0   Up-to-date
ex_doc          0.34.2   0.34.2  Up-to-date
ezstd           1.1.0    1.1.0   Up-to-date
finch           0.17.0   0.19.0  Update possible
jason           1.3.0    1.4.4   Update possible
mime            2.0.6    2.0.6   Up-to-date
nimble_csv      1.2.0    1.2.0   Up-to-date
plug            1.16.1   1.16.1  Up-to-date

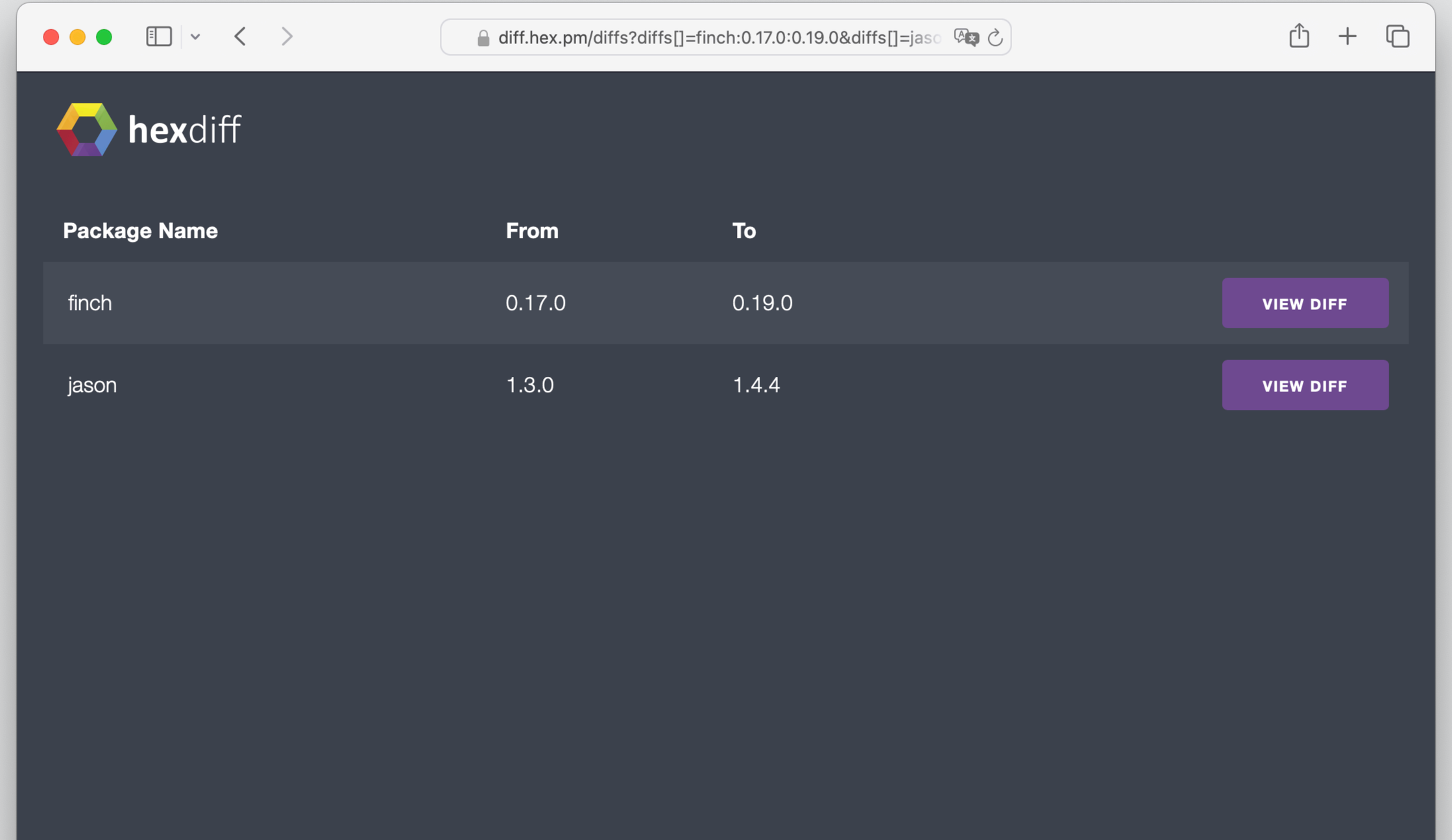
Run `mix hex.outdated APP` to see requirements for a specific dependency.

To view the diffs in each available update, visit:
https://hex.pm/l/3LFLr
$
```

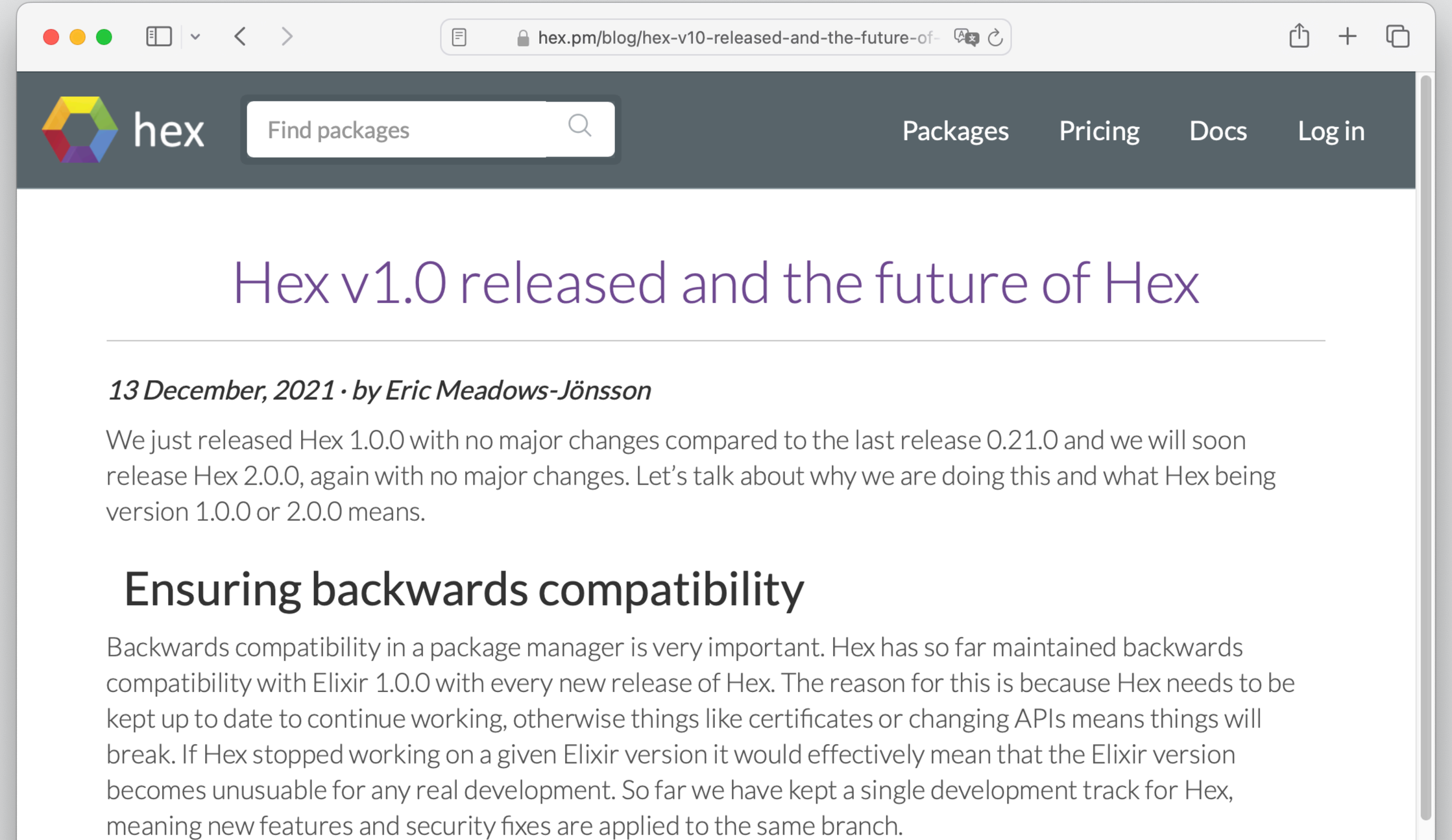
```
$ mix hex.outdated
Dependency      Current  Latest  Status
aws_signature   0.3.2    0.3.2   Up-to-date
bandit          1.5.7    1.5.7   Up-to-date
brotli          0.3.2    0.3.2   Up-to-date
bypass          2.1.0    2.1.0   Up-to-date
ex_doc          0.34.2   0.34.2  Up-to-date
ezstd           1.1.0    1.1.0   Up-to-date
finch           0.17.0   0.19.0  Update possible
jason           1.3.0    1.4.4   Update possible
mime            2.0.6    2.0.6   Up-to-date
nimble_csv      1.2.0    1.2.0   Up-to-date
plug            1.16.1   1.16.1  Up-to-date

Run `mix hex.outdated APP` to see requirements for a specific dependency.

To view the diffs in each available update, visit:
https://hex.pm/l/3LFLr
$
```


diff.hex.pm/diffs?diffs[]=finch:0.17.0:0.19.0&diffs[]=jaso
hexdiff
Package Name
From
To
finch
0.17.0
0.19.0
VIEW DIFF
jason
1.3.0
1.4.4
VIEW DIFF


diff.hex.pm/diff/finch/0.17.0..0.19.0
hexdiff
finch
0.17.0 → 0.19.0
CHANGED CHANGELOG.md
@@ -1,5 +1,34 @@
# Changelog
+ ## v0.19.0 (2024-09-04)
+ ### Enhancements
+ - Update @mint_tls_opts in pool_manager.ex #266
+ - Document there is no backpressure on HTTP2 #283
+ - Fix test: compare file size instead of map #284
+ - Finch.request/3: Use improper list and avoid Enum.reverse #286
+ - Require Mint 1.6 #287
+ - Remove castore dependency #274
+ - Fix typos and improve language in docs and comments #285
+ - fix logo size in README #275



Hex v1.0 released and the future of Hex

13 December, 2021 · by Eric Meadows-Jönsson

We just released Hex 1.0.0 with no major changes compared to the last release 0.21.0 and we will soon release Hex 2.0.0, again with no major changes. Let's talk about why we are doing this and what Hex being version 1.0.0 or 2.0.0 means.

Ensuring backwards compatibility

Backwards compatibility in a package manager is very important. Hex has so far maintained backwards compatibility with Elixir 1.0.0 with every new release of Hex. The reason for this is because Hex needs to be kept up to date to continue working, otherwise things like certificates or changing APIs means things will break. If Hex stopped working on a given Elixir version it would effectively mean that the Elixir version becomes unusuable for any real development. So far we have kept a single development track for Hex, meaning new features and security fixes are applied to the same branch.

Hex v2.0 released with new version solver

30 October, 2022 · by Eric Meadows-Jönsson

Hex 2.0 drops support for Elixir 1.0-1.4. Hex 1.0 will continue to be maintained but will only receive security updates. For more details see the release announcement for Hex 1.0.

New version solver

The biggest change in 2.0 is the introduction of our new version solver hex_solver. A version solver for a package manager needs to be able to find the latest versions of a set of compatible packages that do not violate the user specified version requirements of each package, it needs to finish in a reasonable amount of time, and if version solving failed it needs to display a clear message that explains why it failed.

The current solver algorithm has been around since work begun on Hex in early 2014. Many improvements have been made to it since its introduction such as performance improvements and better error messages but

Builds

README

Bob the builder

Bob performs automated tasks for the Elixir and Hex projects.

Elixir builds

Elixir builds are compiled on each git push to https://github.com/elixir-lang/elixir for any branch. After the build completes it will be available at `https://builds.hex.pm/builds/elixir/{REF}.zip` where `{REF}` is the git ref for that push. Examples of URLs are:

- https://builds.hex.pm/builds/elixir/main.zip
- https://builds.hex.pm/builds/elixir/v1.12.3.zip

These Elixir builds will be compiled against the oldest supported OTP version to ensure maximum compatibility for all users. We also build Elixir for every officially supported OTP version, if possible always use an Elixir

+ 30 contributors

Languages

- Elixir 66.9%
- Dockerfile 16.4%
- Shell 16.4%
- HTML 0.3%

README

Elixir docs

On git pushes documentation is built and pushed to `https://hexdocs.pm/{APPLICATION}/{VERSION}` where `{APPLICATION}` is an application in the Elixir standard distribution and `{VERSION}` is the Elixir version, examples are:

- https://hexdocs.pm/elixir/
- https://hexdocs.pm/elixir/main
- https://hexdocs.pm/mix/1.12.3

Documentation tarballs are also uploaded to `https://repo.hex.pm/docs/{APPLICATION}-{VERSION}.tar.gz`, examples are:

- https://repo.hex.pm/docs/elixir-main.tar.gz
- https://repo.hex.pm/docs/mix-1.12.3.tar.gz

Erlang builds

README

Erlang builds

Erlang builds compiled on Ubuntu LTS versions are built periodically. Bob checks for new tagged releases every 15 minutes and builds any new versions it discovers. The "master" and "maint*" branches are built once a day.

After the builds complete they will be available at `https://builds.hex.pm/builds/otp/${ARCH}/${OS_VER}/${REF}.tar.gz` where `${ARCH}` is the CPU architecture, `${OS_VER}` is the OS name and version, and `${REF}` is the name of the git tag or branch.

Supported architectures:

- `amd64`
- `arm64`

Supported OS versions:

- `ubuntu-20.04`

README

Docker images

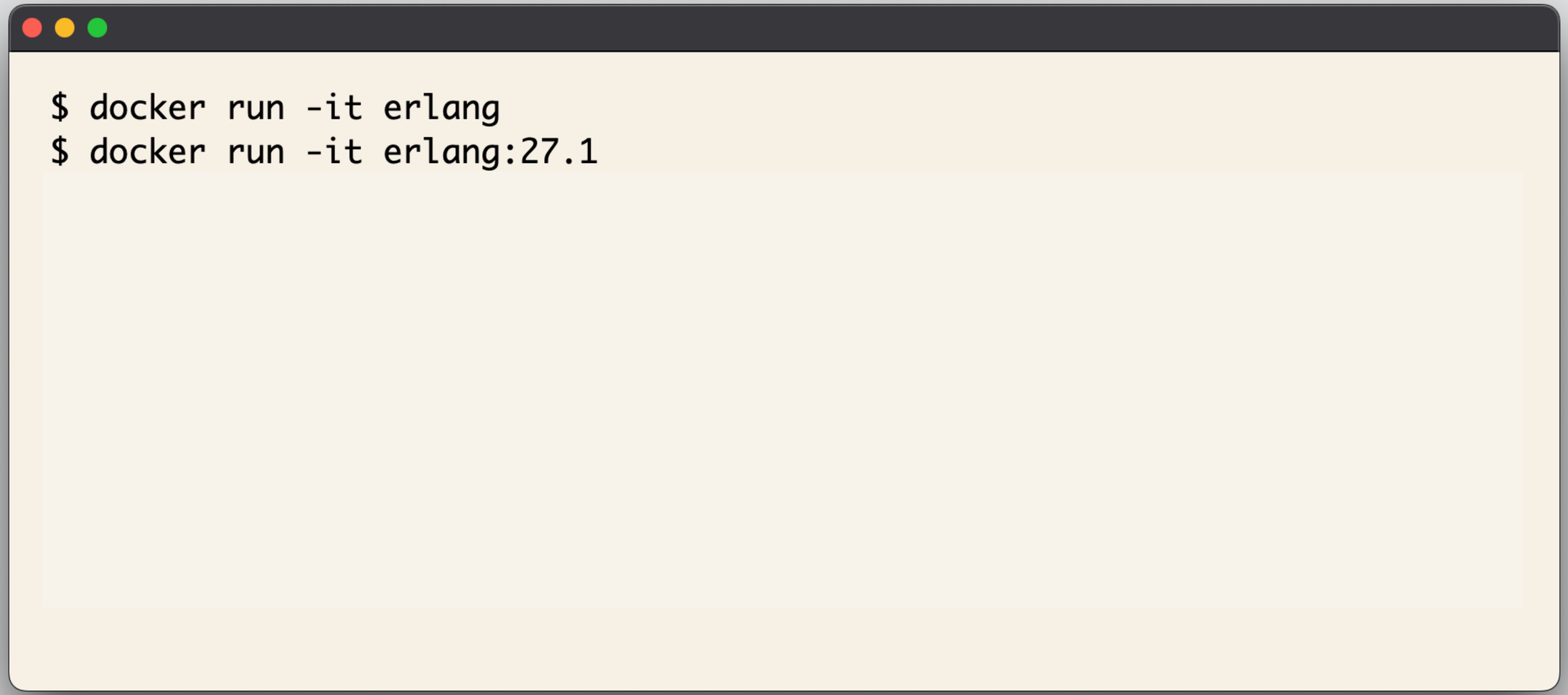
Docker images for Bob's Elixir and Erlang builds are built periodically. Bob checks for new Elixir and Erlang releases every 15 minutes and builds images for any new versions it discovers. The list of operating system distributions we base the images on can be found here: https://github.com/hexpm/bob/blob/main/lib/bob/job/docker_checker.ex#L5.

Tagged images are never changed, that means `hexpm/erlang@22.0-alpine-3.11.2` will always target the tag `OTP-22.0` and won't update when `OTP-22.0.1` is released.

Erlang builds are found at https://hub.docker.com/r/hexpm/erlang, they use the versioning scheme `${OTP_VER}-${OS_NAME}-${OS_VER}` for tags. Builds for all releases since OTP 17 are provided.

Elixir builds are found at https://hub.docker.com/r/hexpm/elixir, they use the versioning scheme `${ELIXIR_VER}-erlang-${OTP_VER}-${OS_NAME}-${OS_VER}`. Builds for all major releases since Elixir 1.0.0 are provided. Images are built for all pairs of compatible Elixir and OTP versions.


$ docker run -it erlang

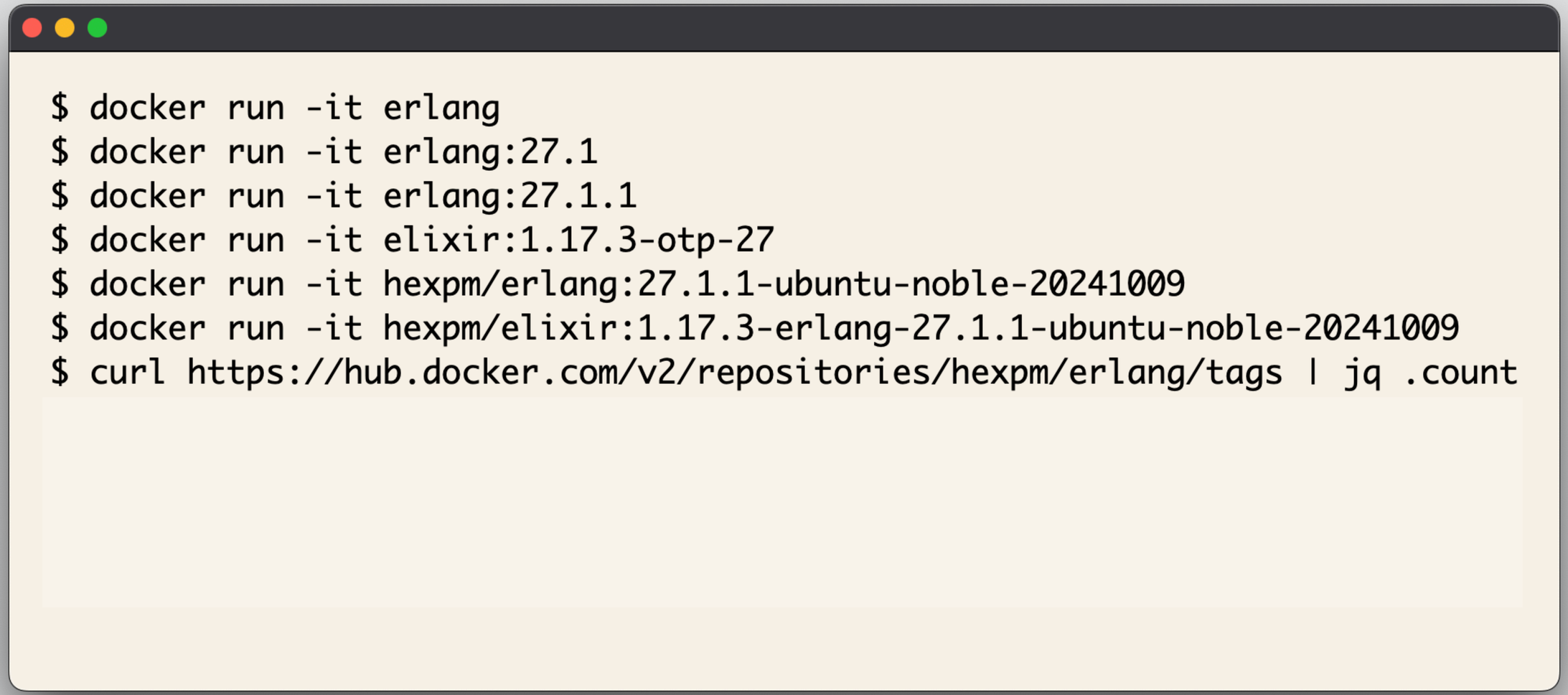

$ docker run -it erlang
$ docker run -it erlang:27.1

```
$ docker run -it erlang
$ docker run -it erlang:27.1
$ docker run -it erlang:27.1.1
```

```
$ docker run -it erlang
$ docker run -it erlang:27.1
$ docker run -it erlang:27.1.1
$ docker run -it elixir:1.17.3-otp-27
```

```
$ docker run -it erlang
$ docker run -it erlang:27.1
$ docker run -it erlang:27.1.1
$ docker run -it elixir:1.17.3-otp-27
$ docker run -it hexpm/erlang:27.1.1-ubuntu-noble-20241009
```

```
$ docker run -it erlang
$ docker run -it erlang:27.1
$ docker run -it erlang:27.1.1
$ docker run -it elixir:1.17.3-otp-27
$ docker run -it hexpm/erlang:27.1.1-ubuntu-noble-20241009
$ docker run -it hexpm/elixir:1.17.3-erlang-27.1.1-ubuntu-noble-20241009
```


$ docker run -it erlang
$ docker run -it erlang:27.1
$ docker run -it erlang:27.1.1
$ docker run -it elixir:1.17.3-otp-27
$ docker run -it hexpm/erlang:27.1.1-ubuntu-noble-20241009
$ docker run -it hexpm/elixir:1.17.3-erlang-27.1.1-ubuntu-noble-20241009
$ curl https://hub.docker.com/v2/repositories/hexpm/erlang/tags | jq .count

```
$ docker run -it erlang
$ docker run -it erlang:27.1
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$ docker run -it elixir:1.17.3-otp-27
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$ docker run -it hexpm/elixir:1.17.3-erlang-27.1.1-ubuntu-noble-20241009
$ curl https://hub.docker.com/v2/repositories/hexpm/erlang/tags | jq .count
8386
```

```
$ docker run -it erlang
$ docker run -it erlang:27.1
$ docker run -it erlang:27.1.1
$ docker run -it elixir:1.17.3-otp-27
$ docker run -it hexpm/erlang:27.1.1-ubuntu-noble-20241009
$ docker run -it hexpm/elixir:1.17.3-erlang-27.1.1-ubuntu-noble-20241009
$ curl https://hub.docker.com/v2/repositories/hexpm/erlang/tags | jq .count
8386
$ curl https://hub.docker.com/v2/repositories/hexpm/elixir/tags | jq .count
```

```
$ docker run -it erlang
$ docker run -it erlang:27.1
$ docker run -it erlang:27.1.1
$ docker run -it elixir:1.17.3-otp-27
$ docker run -it hexpm/erlang:27.1.1-ubuntu-noble-20241009
$ docker run -it hexpm/elixir:1.17.3-erlang-27.1.1-ubuntu-noble-20241009
$ curl https://hub.docker.com/v2/repositories/hexpm/erlang/tags | jq .count
8386
$ curl https://hub.docker.com/v2/repositories/hexpm/elixir/tags | jq .count
148030
```

github.com/erlef/build-and-packaging-wg/issues/8

erlef / build-and-packaging-wg

Code | Issues 7 | Pull requests | Discussions | Actions | Projects | Wiki

OTP macOS builds #80

Edit | New issue

Open **wojtekmach** opened this issue on Aug 12 · 20 comments

wojtekmach commented on Aug 12 • edited — Member

I'd like to propose setting up a central place where macOS binary builds can be downloaded from.

The main use cases are:

- asdf (and similar tools) - Currently, installing OTP using this tools requires building from scratch. Which requires additional steps and there have been problems and caveats over the years: https://github.com/asdf-vm/asdf-erlang?tab=readme-ov-file#osx

Assignees

No one—assign yourself

Labels

Agenda Item

Projects

None yet

README License

OTP Builds

This is a collection of community-maintained Erlang/OTP binary builds.

Supported operating systems:

- `macos`

Supported architectures:

- `amd64`
- `arm64`

The goal of these builds is to be as self-contained as possible. OpenSSL (used by `crypto` app) and wxWidgets (used by `wx` app and it's dependants, `observer`, `debugger`, and `et`) are statically linked.

List of Builds

github.com/erlef/otp_builds/releases/tag/OTP-27.1.1

erlef / otp_builds

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Releases / OTP-27.1.1

OTP-27.1.1 Latest

Compare

github-actions released this 4 days ago | OTP-27.1.1 | b5893a3

Automated build for https://github.com/erlang/otp/releases/tag/OTP-27.1.1.

Assets 4

OTP-27.1.1-macos-amd64.tar.gz	57.5 MB	4 days ago
OTP-27.1.1-macos-arm64.tar.gz	57 MB	4 days ago

github.com/erlef/otp_builds/releases/tag/maint-latest

erlef / otp_builds

Code | Issues 16 | Pull requests 6 | Discussions | Actions | Security | Insights

Releases / maint-latest

maint-latest

Compare

github-actions released this 6 minutes ago | maint-latest | b5893a3

Automated build for erlang/otp@ `19ede2c` .

Assets 4

maint-macos-amd64.tar.gz	57.5 MB	6 minutes ago
maint-macos-arm64.tar.gz	57 MB	6 minutes ago

github.com/erlef/otp_builds/releases/tag/master-latest

erlef / otp_builds

Code | Issues 16 | Pull requests 6 | Discussions | Actions | Security | Insights

Releases / master-latest

master-latest

Compare

github-actions released this 7 minutes ago | master-latest | b5893a3

Automated build for erlang/otp@ `5439fba` .

Assets 4

master-macos-amd64.tar.gz	57.5 MB	7 minutes ago
master-macos-arm64.tar.gz	57 MB	7 minutes ago

github.com/elixir-lang/elixir/releases/tag/main-latest

elixir-lang / **elixir**

Code | Issues 21 | Pull requests 8 | Actions | Wiki | Security | Insights

Releases / main-latest

main-latest

Compare

github-actions released this 3 weeks ago | main-latest | 3ca7aae

Automated release for latest main.

Assets 23

Docs.zip	6.04 MB	8 hours ago
Docs.zip.sha1sum	51 Bytes	8 hours ago

Docs

See `import/2` for more information on importing.

Elixir also has special forms that are always imported and cannot be skipped. These are described in `Kernel.SpecialForms`.

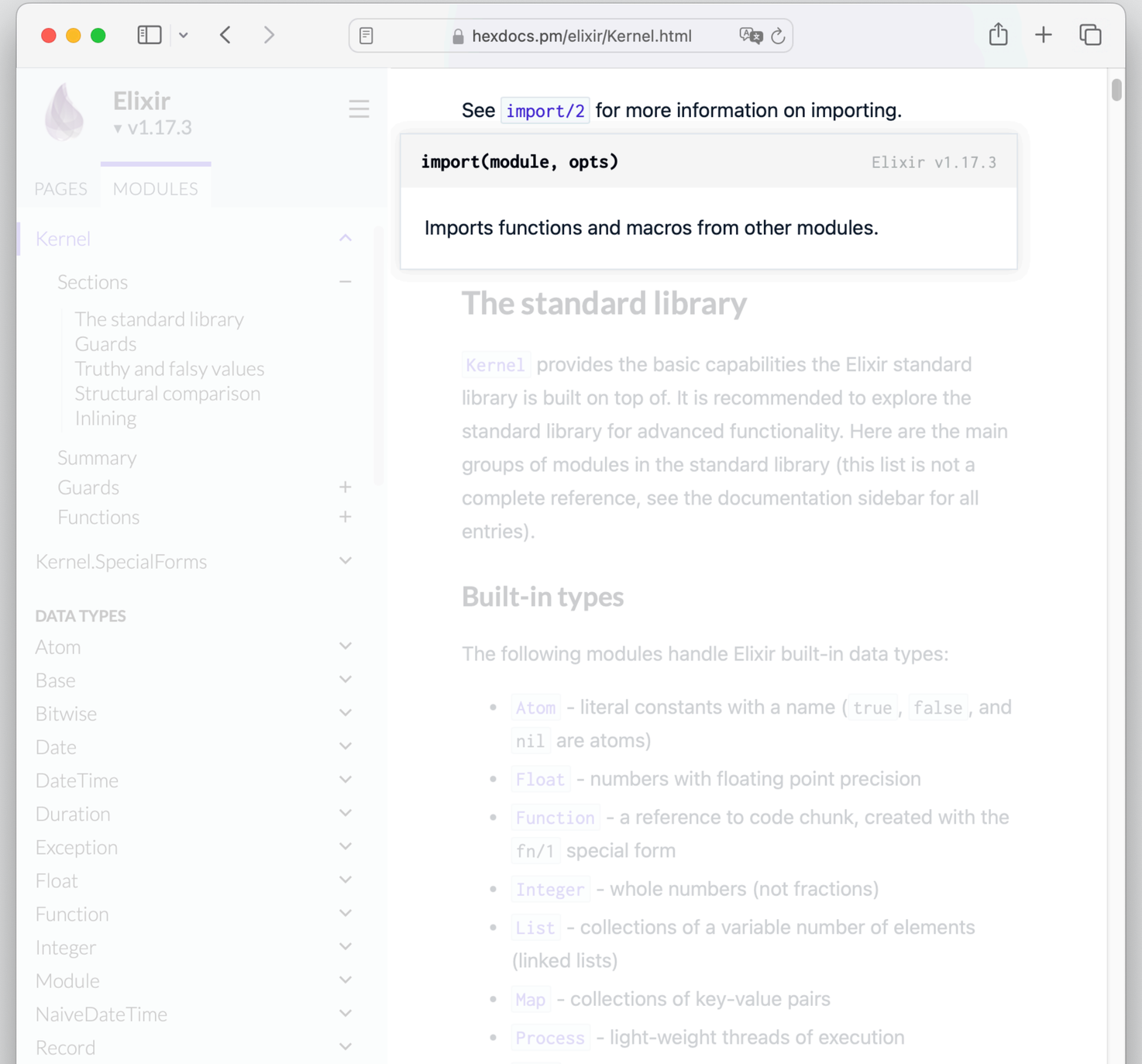
The standard library

`Kernel` provides the basic capabilities the Elixir standard library is built on top of. It is recommended to explore the standard library for advanced functionality. Here are the main groups of modules in the standard library (this list is not a complete reference, see the documentation sidebar for all entries).

Built-in types

The following modules handle Elixir built-in data types:

- `Atom` - literal constants with a name (`true`, `false`, and `nil` are atoms)
- `Float` - numbers with floating point precision
- `Function` - a reference to code chunk, created with the `fn/1` special form
- `Integer` - whole numbers (not fractions)
- `List` - collections of a variable number of elements (linked lists)
- `Map` - collections of key-value pairs
- `Process` - light-weight threads of execution


hexdocs.pm/elixir/Kernel.html
Elixir
v1.17.3
PAGES
MODULES
Kernel
Sections
The standard library
Guards
Truthy and falsy values
Structural comparison
Inlining
Summary
Guards
Functions
Kernel.SpecialForms
DATA TYPES
Atom
Base
Bitwise
Date
DateTime
Duration
Exception
Float
Function
Integer
Module
NaiveDateTime
Record
See import/2 for more information on importing.
import(module, opts)
Elixir v1.17.3
Imports functions and macros from other modules.
The standard library
Kernel provides the basic capabilities the Elixir standard library is built on top of. It is recommended to explore the standard library for advanced functionality. Here are the main groups of modules in the standard library (this list is not a complete reference, see the documentation sidebar for all entries).
Built-in types
The following modules handle Elixir built-in data types:
Atom - literal constants with a name (true , false , and nil are atoms)
Float - numbers with floating point precision
Function - a reference to code chunk, created with the fn/1 special form
Integer - whole numbers (not fractions)
List - collections of a variable number of elements (linked lists)
Map - collections of key-value pairs
Process - light-weight threads of execution

```
iex> h import
```

```
iex> h import

                                defmacro import(module, opts)

Imports functions and macros from other modules.

import/2 allows one to easily access functions or macros from other modules
without using the qualified name.

## Examples

If you are using several functions from a given module, you can import those
functions and reference them as local functions, for example:

    iex> import List
    iex> flatten([1, [2], 3])
    [1, 2, 3]

## Selector
```

Docs in the Shell

Radek Szymczyszyn · Follow
3 min read · Feb 9, 2016

TL;DR: To access module documentation in the Erlang shell use *docsh*.

Hi! I'm Radek Szymczyszyn, an Erlang dev. This is my first post here. You can also read it on Erlang Solutions' blog.

For quite some time now I've been envying a few of Elixir's features: protocols, a consistent standard library, the pipe operator, macros and online documentation (as in "when connected to a system"). Personally, I don't like Elixir's syntax, but I "love" it when people use this same argument as an excuse not to use Erlang. Joking apart, some of these features could be present in Erlang, but they are not *yet*.

Author: José Valim, Eric Bailey , Radek Szymczyszyn

Status: Final/24.0 Implemented in OTP version 24.0

Type: Standards Track

Created: 04-Jan-2018

EEP 48: Documentation storage and format

Abstract

This EEP proposes an official API documentation storage to be used by by BEAM languages. By standardizing how API documentation is stored, it will be possible to write tools that work across languages.

Rationale

Currently, different programming languages and libraries running on BEAM devise their own schemas for storing and accessing documentation.

For example, Elixir and LFE provide a `h` helper in their shell that can print the documentation of any module:

Code ▾ Jump to bottom

Introduce EEP-48 and help functions in shell #2545

Merged

garazdawi merged 27 commits into `erlang:master` from `garazdawi:lukas/kernel/code-chunk-lookup` on Feb 24, 2020

Conversation 33 | Commits 27 | Checks 0 | Files changed 177

garazdawi commented on Feb 19, 2020 — Contributor

This PR implements generation of EEP-48 style documentation and also functions in the shell to display the documention.

This is a work in progress, but it should be functional enough for most usecases. At the moment it is not possible to create EEP-48 style documentation for anything but Erlang/OTP modules.

Generation

The documentation is built when all other Erlang/OTP documentation is built. The format for the documentation is an erlang term format using three tuples describing an HTML document. Example:

```
[{p,[],
```

Merged **Introduce EEP-48 and help functions in shell** #2545

garazdawi merged 27 commits into `erlang:master` from `garazdawi:lukas/kernel/code-chun…` on Feb …

Rendering

Six new functions have been introduced in the `shell_default` which means that they will be available in all shells that do not implement their of `shell_default`. The functions are `h(Module)`, `h(Module, Function)`, `h(Module, Function, Arity)`, `ht(Module)`, `ht(Module, Function)` and `ht(Module, Function, Arity)`.

The `h/1` function displays the documentation for a module. Example:

```
> h(erlang).

        erlang

  By convention, most Built-In Functions (BIFs) are included in this
  module. Some of the BIFs are viewed more or less as part of the
  Erlang programming language and are auto-imported. Thus, it is
  not necessary to specify the module name. For example, the calls
  atom_to_list(erlang) and erlang:atom_to_list(erlang) are
  identical.
```

The `h/2` and `h/3` functions show the function documentation. Example:

```
> h(erlang,abs,1).

-spec abs(Float) -> float() when Float :: float();
         (Int) -> non_neg_integer() when Int :: integer().


  Returns an integer or float that is the arithmetical absolute
  value of Float or Int, for example:

    > abs(-3.33).
    3.33
```

Author: José Valim

Status: Final/27.0 Implemented in OTP version 27.0

Type: Standards Track

Created: 02-Jun-2021

EEP 59: Module attributes for documentation

Abstract

This EEP proposes a structured documentation API for Erlang where the documentation is handled as part of the language parser and included directly in the compiled .beam files, as a replacement for EDoc style comments. Python, Elixir, and Clojure are examples of languages that follow this approach of treating documentation as data rather than code comments.

Rationale

The main limitation in EDoc today is that the documentation is kept as code comments. This requires an explicit tool to parse said code comments, which complicates access to the docs by IDEs, from the

New module attributes

This EEP proposes two new attributes: `-doc` and `-moduledoc`. They could be used as follows:

```
-module(base64).
-moduledoc "
Convenience functions for encoding and decoding fro
".

-doc "
Encodes the given binary to base64.
".
-spec encode(binary()) -> binary().
encode(Binary) ->
  % ....

-doc "
Decodes the given binary from base64.
".
-spec decode(binary()) -> {ok, binary()} | error.
encode(Binary) ->
  % ....
```

The new `-moduledoc` attribute can be listed anywhere and it will contain the documentation for the given module. The `-doc` attribute must be listed anywhere before a function, type attribute or callback attribute and it will contain the documentation for the following function, type or callback. For instance, the example below:

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Code

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EEP-59 - Documentation Attributes #7936

Merged

kikofernandez merged 1 commit into `erlang:master` from `kikofernandez:eep48_to_markdown` on Jan 3

Conversation 10 Commits 1 Checks 18 Files changed 79

kikofernandez commented on Dec 6, 2023 Contributor

Implementation of EEP-59 - Documentation Attributes

- Documentation attributes are added to the binary beam file, following format of EEP-48, via `+beam_docs` compiler flag
- Warnings related to documentation attributes are dealt with in the `beam_docs.erl` instead of adding them to `erl_lint.erl`

Example 1

```
-module(warn_missing_doc).

-export([test/0, test/1, test/2]).
-export_type([test/0, test/1]).
```

github.com/erlang/otp/pull/8026

erlang / otp

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Change documentation to use ExDoc and EEP-59 style documentation #8026

Merged

garazdawi merged 30 commits into `erlang:master` from `garazdawi:lukas/otp/convert-docs-to-markdown` on Jan 31

Conversation 15 | Commits 30 | Checks 51 | Files changed 3,258

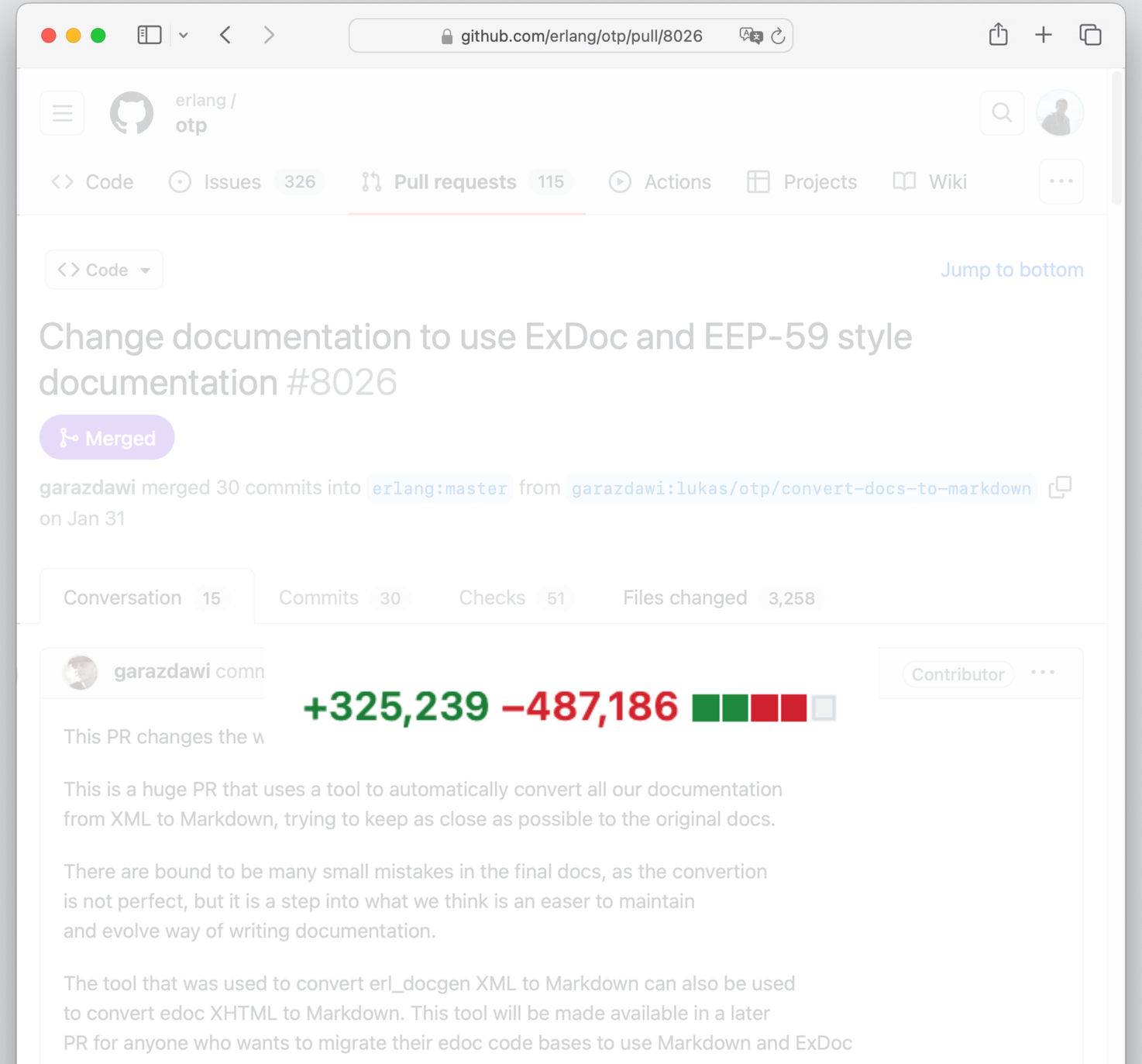
garazdawi commented on Jan 16 — Contributor

This PR changes the way that Erlang/OTP is documented from using erl_docgen to ExDoc.

This is a huge PR that uses a tool to automatically convert all our documentation
from XML to Markdown, trying to keep as close as possible to the original docs.

There are bound to be many small mistakes in the final docs, as the convertion
is not perfect, but it is a step into what we think is an easer to maintain
and evolve way of writing documentation.

The tool that was used to convert erl_docgen XML to Markdown can also be used
to convert edoc XHTML to Markdown. This tool will be made available in a later
PR for anyone who wants to migrate their edoc code bases to use Markdown and ExDoc


github.com/erlang/otp/pull/8026
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Change documentation to use ExDoc and EEP-59 style documentation #8026
Merged
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Conversation 15
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garazdawi comm
Contributor
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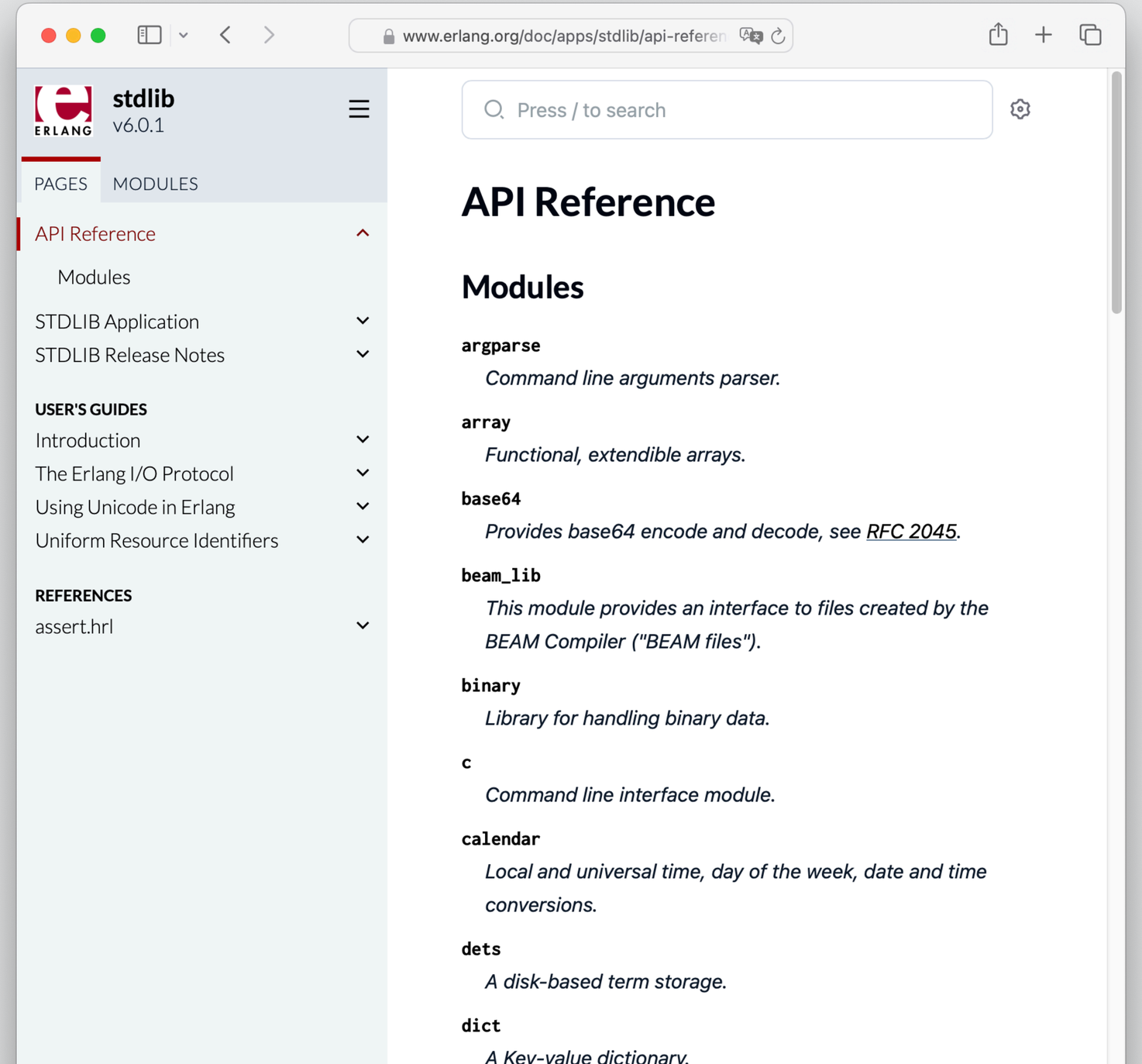
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stdlib
v6.0.1
PAGES
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API Reference
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STDLIB Release Notes
USER'S GUIDES
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Using Unicode in Erlang
Uniform Resource Identifiers
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API Reference
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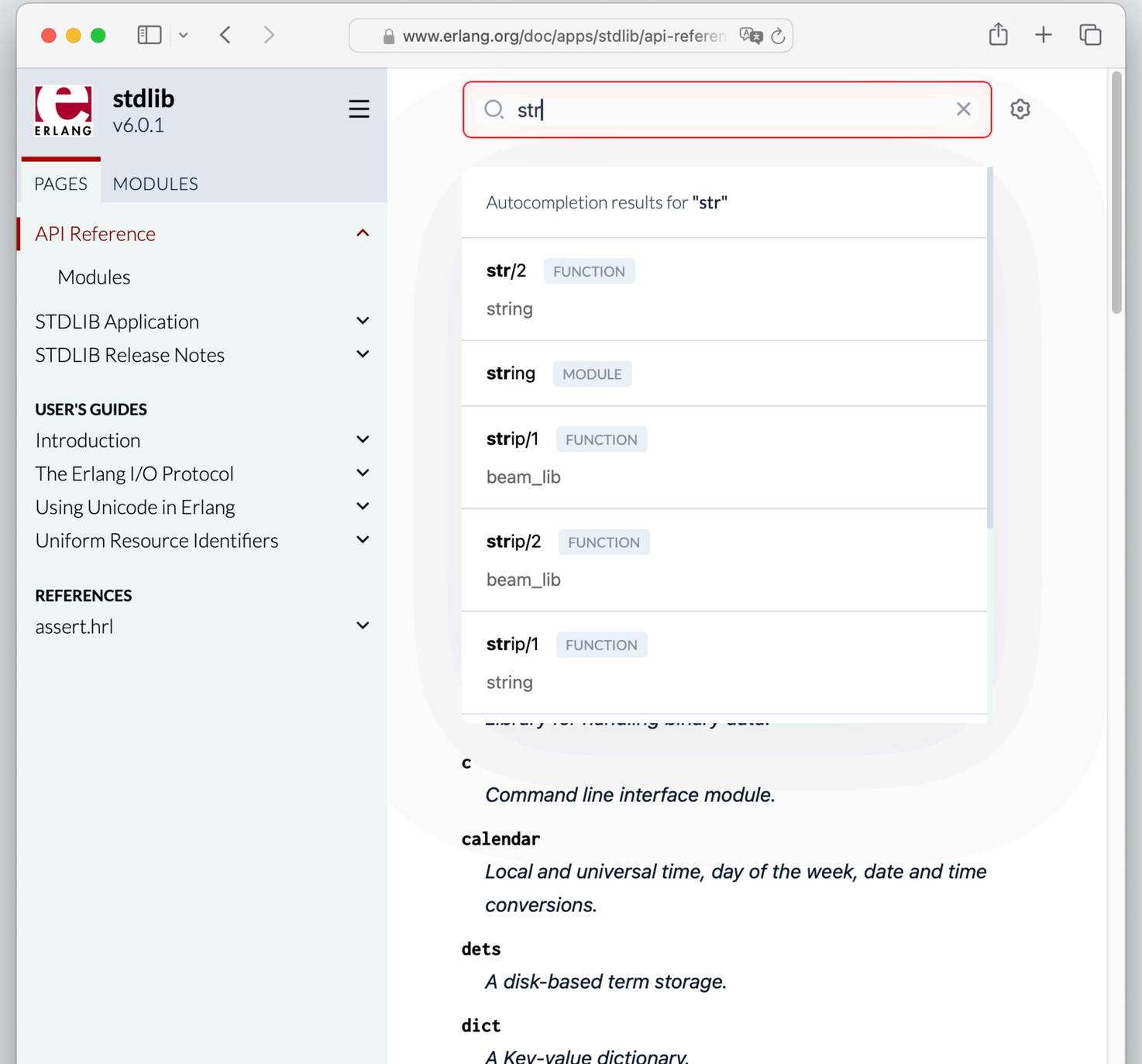
argparse
Command line arguments parser.
array
Functional, extendible arrays.
base64
Provides base64 encode and decode, see RFC 2045.
beam_lib
This module provides an interface to files created by the BEAM Compiler ("BEAM files").
binary
Library for handling binary data.
c
Command line interface module.
calendar
Local and universal time, day of the week, date and time conversions.
dets
A disk-based term storage.
dict
A Key-value dictionary.


www.erlang.org/doc/apps/stdlib/api-referen
stdlib
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str/2 FUNCTION
string
string MODULE
strip/1 FUNCTION
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Mint

Mint, a new HTTP client for Elixir

February 25, 2019 · by Eric Meadows-Jönsson · in Announcements

Mint is a new low-level HTTP client that aims to provide a small and functional core that others can build on top. Mint is connection based: each connection is a single struct with an associated socket belonging to the process that started the connection. Since no extra processes are started for the connection, you can choose the process architecture that better fits your application.

To validate this we built out the library with a common API supporting both HTTP/1 and HTTP/2 with automatic version negotiation. In addition, Mint comes with a CA certificate store to do safe by default HTTPS connections.

News: Elixir v1.17 released

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IMPORTANT LINKS

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IMPORTANT LINKS

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```
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iex(2)> {:ok, conn, request_ref} = Mint.HTTP.request(conn, "GET", "/", [],
"")
iex(3)> receive do
...(3)>   message ->
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```

As we can see all calls to `Mint.HTTP` functions return an updated `conn` which holds the state for the connection. It is important to carry on the `conn` to the next function call or the state will be corrupted.

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...(3)>     IO.inspect(responses, label: :responses)
...(3)> end
message: {:tcp, #Port<0.8>, "HTTP/1.1 200 OK\r\n" <> ...}
responses: [
  {:status, #Reference<...>, 200},
  {:headers, #Reference<...>, [{"connection", "keep-alive"}, ...},
  {:data, #Reference<...>, "<!DOCTYPE html>" <> ...},
  {:done, #Reference<...>}
]
```

Building a new MySQL adapter for Ecto, Part I: Hello World

Wojtek Mach November 14th, 2018

ecto, elixir, myxql

Writing a complete driver involves quite a bit of work. To name just a few things, we need to support: all protocol messages and data types, authentication schemes, connection options (TCP/SSL/UNIX domain socket), transactions and more. Rather than going through all of these in detail, I plan to distill this knowledge into 4 parts, each with a quick overview of a given area:

- Part I: Hello World (you're here!)
- Part II: Encoding/Decoding
- Part III: DBConnection Integration
- Part IV: Ecto Integration

```elixir
defmodule MyXQL.Connection do
  use DBConnection

  @impl true
  def connect(options) do
    case :gen_tcp.connect(...) do
      {:ok, socket} -> # ...
      {:error, reason} -> # ...
    end
  end

  @impl true
  def disconnect(_reason, state) do
    :gen_tcp.close(state.socket)
  end

  # ...
end
```

```elixir
defmodule MyXQL.Connection do
  use DBConnection

  @impl true
  def connect(options) do
    case :gen_tcp.connect(...) do
      {:ok, socket} -> # ...
      {:error, reason} -> # ...
    end
  end

  @impl true
  def disconnect(_reason, state) do
    :gen_tcp.close(state.socket)
  end

  # ...
end
```

```elixir
defmodule MyXQL.Connection do
  use DBConnection

  @impl true
  def connect(options) do
    case MyXQL.Client.connect(…) do
      {:ok, socket} -> # ...
      {:error, reason} -> # ...
    end
  end

  @impl true
  def disconnect(_reason, state) do
    MyXQL.Client.close(state.socket)
  end

  # ...
end
```

```elixir
defmodule Postgrex.Connection do
  use DBConnection

  @impl true
  def connect(options) do
    case Postgrex.Client.connect(…) do
      {:ok, socket} -> # ...
      {:error, reason} -> # ...
    end
  end

  @impl true
  def disconnect(_reason, state) do
    Postgrex.Client.close(state.socket)
  end

  # ...
end
```

```elixir
defmodule Postgrex.Connection do
  use DBConnection

  @impl true
  def connect(options) do
    case :gen_postgres.connect(…) do
      {:ok, socket} -> # ...
      {:error, reason} -> # ...
    end
  end

  @impl true
  def disconnect(_reason, state) do
    :gen_postgres.close(state.socket)
  end

  # ...
end
```

Supavisor: Scaling Postgres to 1 Million Connections

11 Aug 2023 • 14 minute read


Egor Romanov
Engineering


Chase Granberry
Engineering


Stanislav Muzhyk
Engineering

launch-week supavisor postgres

On this page

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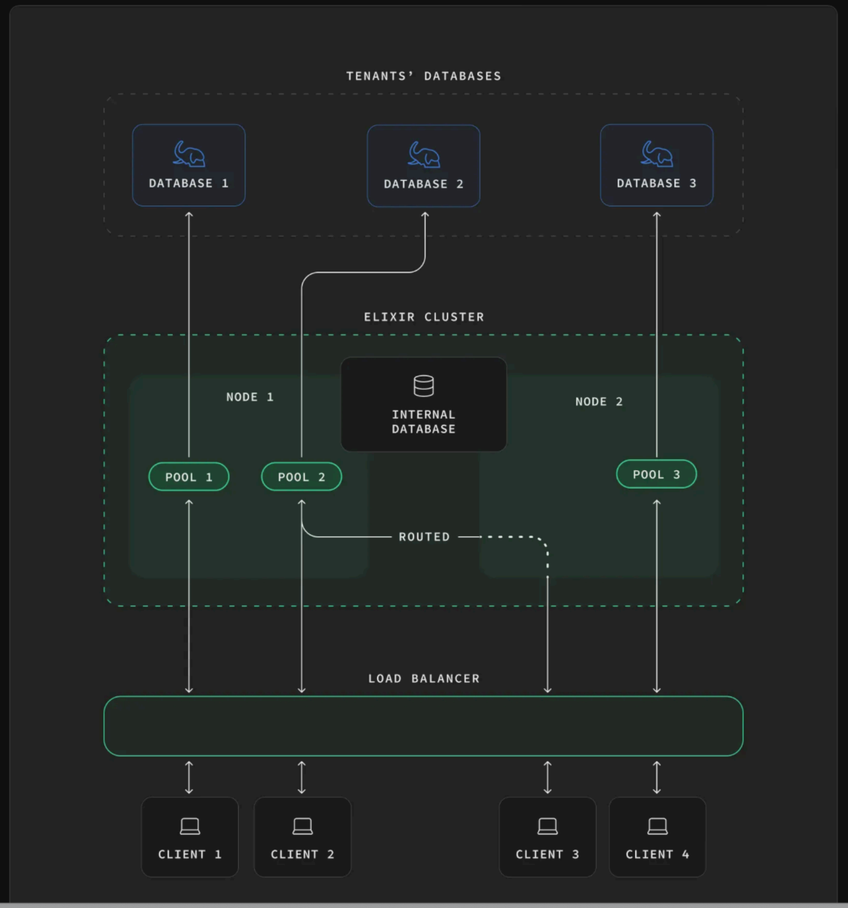
One of the most widely-discussed shortcomings of Postgres is it's connection system. Every Postgres connection has a reasonably high memory footprint, and determining the maximum number of connections your database can handle is a bit of an art.

A common solution is connection pooling. Supabase currently offers pgbouncer which is single-threaded, making it difficult to scale. We've seen some novel ways to scale pgbouncer, but we have a few

Supavisor is a scalable, cloud-native Postgres connection pooler. It has been developed with multi-tenancy in mind, handling millions of connections without significant overhead or latency. Supavisor is built in Elixir, in partnership with José Valim (the creator of Elixir) and the Dashbit team.



Rustler

Rustler

Documentation | Getting Started | Example

Rustler is a library for writing Erlang NIFs in safe Rust code. That means there should be no ways to crash the BEAM (Erlang VM). The library provides facilities for generating the boilerplate for interacting with the BEAM, handles encoding and decoding of Erlang terms, and catches rust panics before they unwind into C.

The library provides functionality for both Erlang and Elixir, however Elixir is favored as of now.

Features

Safety : The code you write in a Rust NIF should never be able to crash the BEAM.

Interop : Decoding and encoding rust values into Erlang terms is as easy as a function : call.

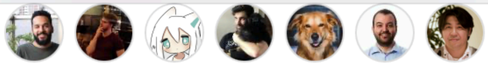
Type composition : Making a Rust struct encodable and decodable to Erlang or Elixir can be done : with a single attribute.

Resource objects : Enables you to safely pass a reference to a Rust struct into Erlang code. The : struct will be automatically dropped when it's no longer referenced.

Getting started

The easiest way of getting started is the rustler Elixir library.

- Add the rustler Elixir library as a dependency of your project.
- Run `mix rustler.new` to generate a new NIF in your project. Follow the instructions



What it looks like

This is the code for a minimal NIF that adds two numbers and returns the result.

```
#[rustler::nif]
fn add(a: i64, b: i64) -> i64 {
    a + b
}

rustler::init!("Elixir.Math");
```

Minimal Supported Rust Version (MSRV)

Rustler currently has a minimal supported Rust version (MSRV) of 1.70. This is the configured version in `.clippy.toml`.

Supported OTP and Elixir Versions

Rustler aims to support the newest three major OTP versions as well as newest three minor Elixir versions.

Supported NIF version

The minimal supported NIF version for a library should be defined via Cargo features. The default is currently `2.15` (Erlang/OTP 22). To use features from NIF version `2.16` (Erlang/OTP 24) or `2.17` (Erlang/OTP 26), the respective feature flag has to be enabled on the dependency:

```
[dependencies]
rustler = { version = "...", features = ["nif_version_2_16"] }
```

Community

What it looks like

This is the code for a minimal NIF that adds two numbers and returns the result.

```rust
#[rustler::nif]
fn add(a: i64, b: i64) -> i64 {
    a + b
}

rustler::init!("Elixir.Math");
```

Minimal Supported Rust Version (MSRV)

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```
[dependencies]
rustler = { version = "...", features = ["nif_version_2_16"] }
```

Community

README MIT license

Explorer

Explorer brings series (one-dimensional) and dataframes (two-dimensional) for fast data exploration to Elixir.

Features and design

Explorer high-level features are:

Releases / v0.9.2

v0.9.2

Latest

Compare

philss released this Aug 27 · 21 commits to main since this release v0.9.2 1175ff9

Added

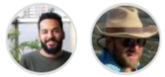
- Add a new `:keep` option to the `mutate_with/3` function and `mutate/3` macro. This option allows users to control which columns are retained in the output dataframe after a mutation operation. You can use `:all` (the default) or `:none`.

Fixed

- Fix handling of "LazySeries" with remote dataframes.
- Fix typespecs of `Explorer.Series.cast/2` by adding a `dtype_alias()` type.
- Stop converting `io_dtypes()` to maps in order to preserve names ordering.

Build with attestations: https://github.com/elixir-explorer/explorer/actions/runs/10579468339

Contributors



philss and brendon9x

Assets 15

explorer-v0.9.2-nif-2.15-x86_64-pc-windows-gnu--legacy_cpu.dll.tar.gz	21.1 MB	Aug 27
explorer-v0.9.2-nif-2.15-x86_64-pc-windows-gnu.dll.tar.gz	21.2 MB	Aug 27
explorer-v0.9.2-nif-2.15-x86_64-pc-windows-msvc--legacy_cpu.dll.tar.gz	21.4 MB	Aug 27
explorer-v0.9.2-nif-2.15-x86_64-pc-windows-msvc.dll.tar.gz	21.5 MB	Aug 27
libexplorer-v0.9.2-nif-2.15-aarch64-apple-darwin.so.tar.gz	18.8 MB	Aug 27
libexplorer-v0.9.2-nif-2.15-aarch64-unknown-linux-gnu.so.tar.gz	20.7 MB	Aug 27
libexplorer-v0.9.2-nif-2.15-aarch64-unknown-linux-musl.so.tar.gz	20.2 MB	Aug 27
libexplorer-v0.9.2-nif-2.15-x86_64-apple-darwin.so.tar.gz	21 MB	Aug 27
libexplorer-v0.9.2-nif-2.15-x86_64-unknown-freebsd--legacy_cpu.so.tar.gz	21.7 MB	Aug 27
libexplorer-v0.9.2-nif-2.15-x86_64-unknown-freebsd.so.tar.gz	21.8 MB	Aug 27

Introducing Rustler Precompiled

Philip Sampaio March 15th, 2022

rustler, rust, precompilation, explorer, nerves

Rust is becoming widely used for systems programming. Because of its safety guarantees and performance, it is a good language for writing NIFs to the BEAM ecosystem, and it's fairly easy to write them using the awesome Rustler project.

Rustler was created a few years ago by Hans Elias J., and it's a project that aims to be a

Zig

Inline NIF support for Zig

Motivation

> Zig is a general-purpose programming language designed for robustness, optimality, and maintainability.

The programming philosophy of Zig matches up nicely with the programming philosophy of the BEAM VM and in particular its emphasis on simplicity and structure should very appealing to the practitioners of Elixir.

The following features make Zig extremely amenable to inline language support in a BEAM language:

- simplicity. Zig's syntax is definable in a simple YACC document and Zig takes a stance against making its featureset more complex (though it may evolve somewhat en route to 1.0)
- Composability. Zig is unopinionated about how to go about memory allocations. Its allocator interface is very easily able to be backed by the BEAM's, which

zigler
v0.13.2

PAGES MODULES

:zigler
Zig
Summary
Functions
Zig.Formatter

EXCEPTIONS
Zig.CompileError
Zig.Type.ParseError

ZIG CODE
beam

Example

```
defmodule BasicModule do
  use Zig, otp_app: :zigler

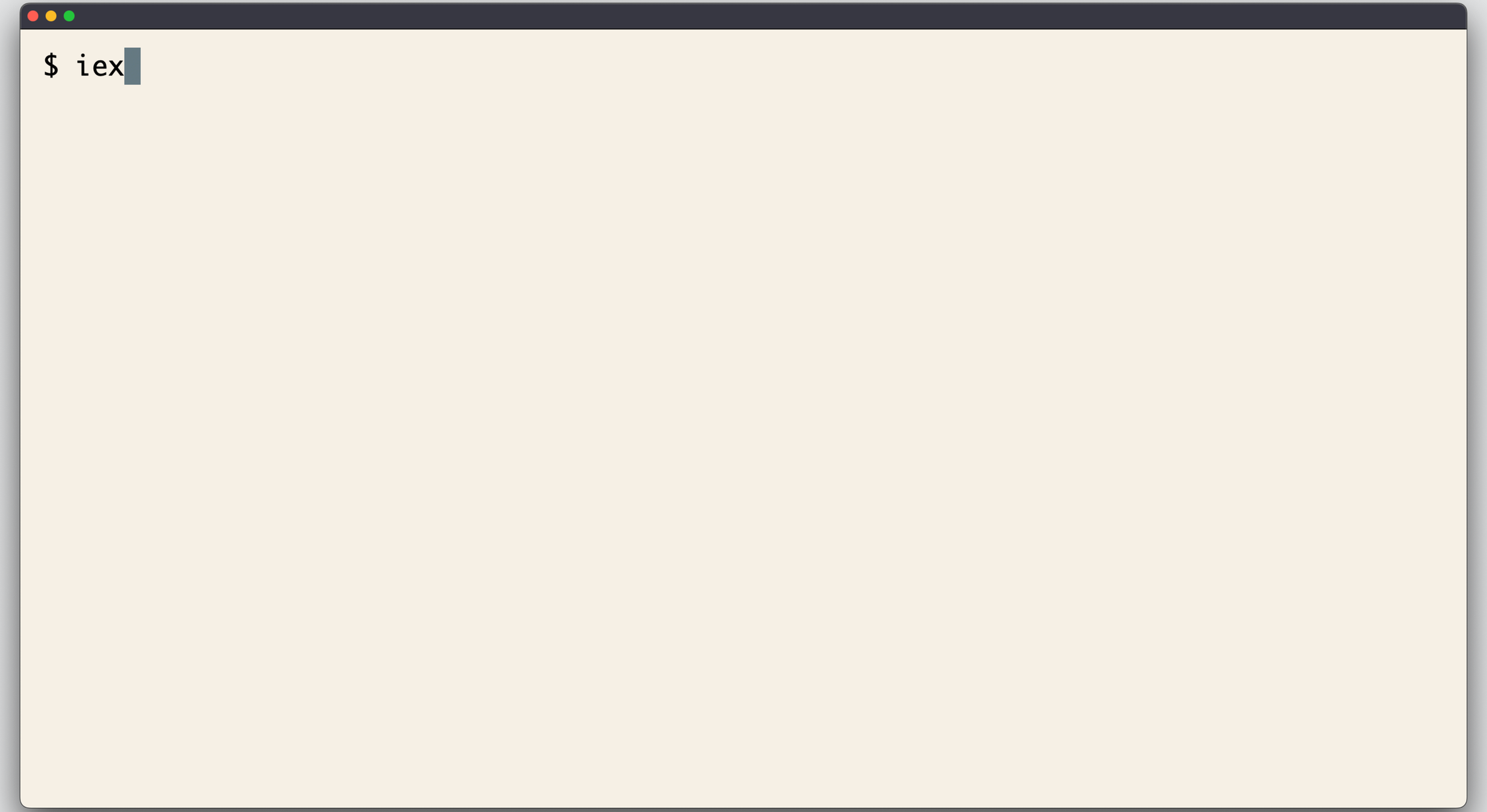
  ~Z"""
  pub fn add_one(number: i64) i64 {
      return number + 1;
  }
  """
end

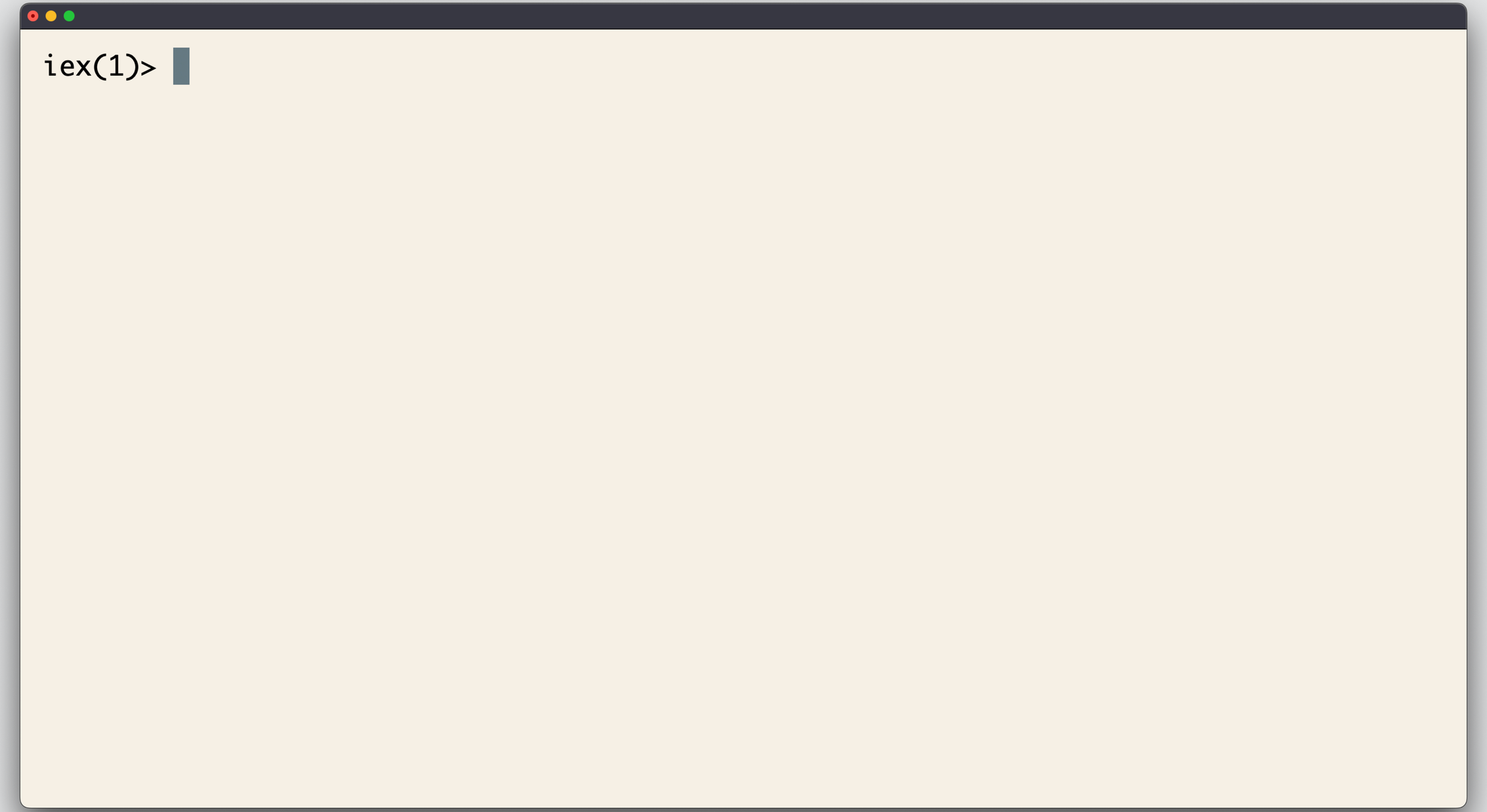
test "basic module with nif" do
  assert 48 = BasicModule.add_one(47)
end
```

otp_app setting

You should replace `:zigler` in the following example with the name of your own app. If no such app exists (e.g. you are using livebook or are in the terminal or escript), you can use `:zigler` as a fallback.

Mix.install

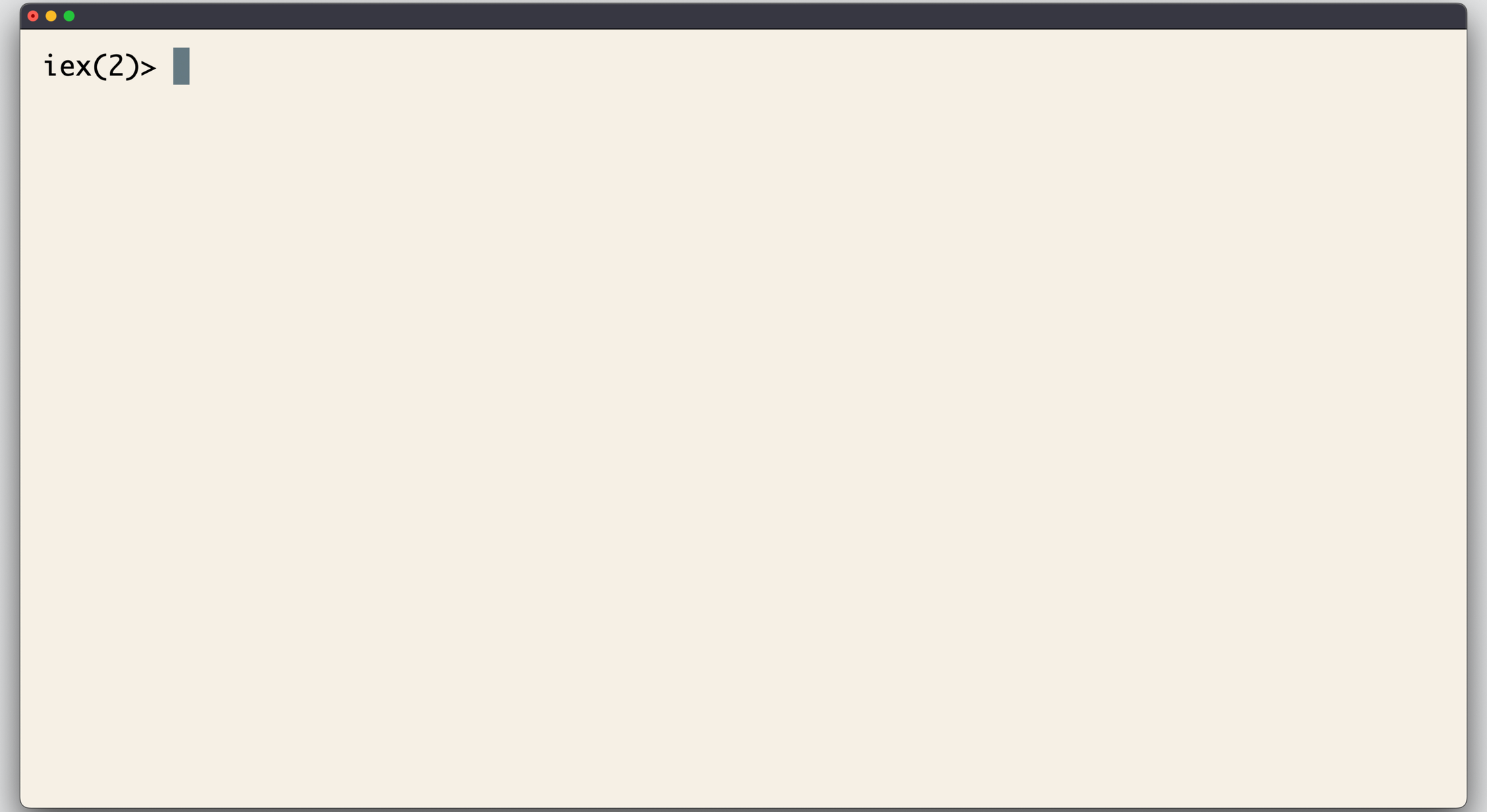

$ iex


iex(1)>

```
iex(1)> Mix.install([:req])
```

```
iex(1)> Mix.install([:req])
Resolving Hex dependencies...
Resolution completed in 0.345s
New:
  finch 0.19.0
  hpax 1.0.0
  jason 1.4.4
  mime 2.0.6
  mint 1.6.2
  nimble_options 1.1.1
  nimble_pool 1.1.0
  req 0.5.6
  telemetry 1.3.0
* Getting req (Hex package)
* Getting finch (Hex package)
* Getting jason (Hex package)
* Getting mime (Hex package)
* Getting mint (Hex package)
* Getting nimble_options (Hex package)
* Getting nimble_pool (Hex package)
```

```
Compiling 10 files (.ex)
Generated jason app
==> hpax
Compiling 4 files (.ex)
Generated hpax app
==> mint
Compiling 1 file (.erl)
Compiling 20 files (.ex)
Generated mint app
==> nimble_pool
Compiling 2 files (.ex)
Generated nimble_pool app
==> finch
Compiling 14 files (.ex)
Generated finch app
==> req
Compiling 17 files (.ex)
Generated req app
:ok
iex(2)>
```


iex(2)>

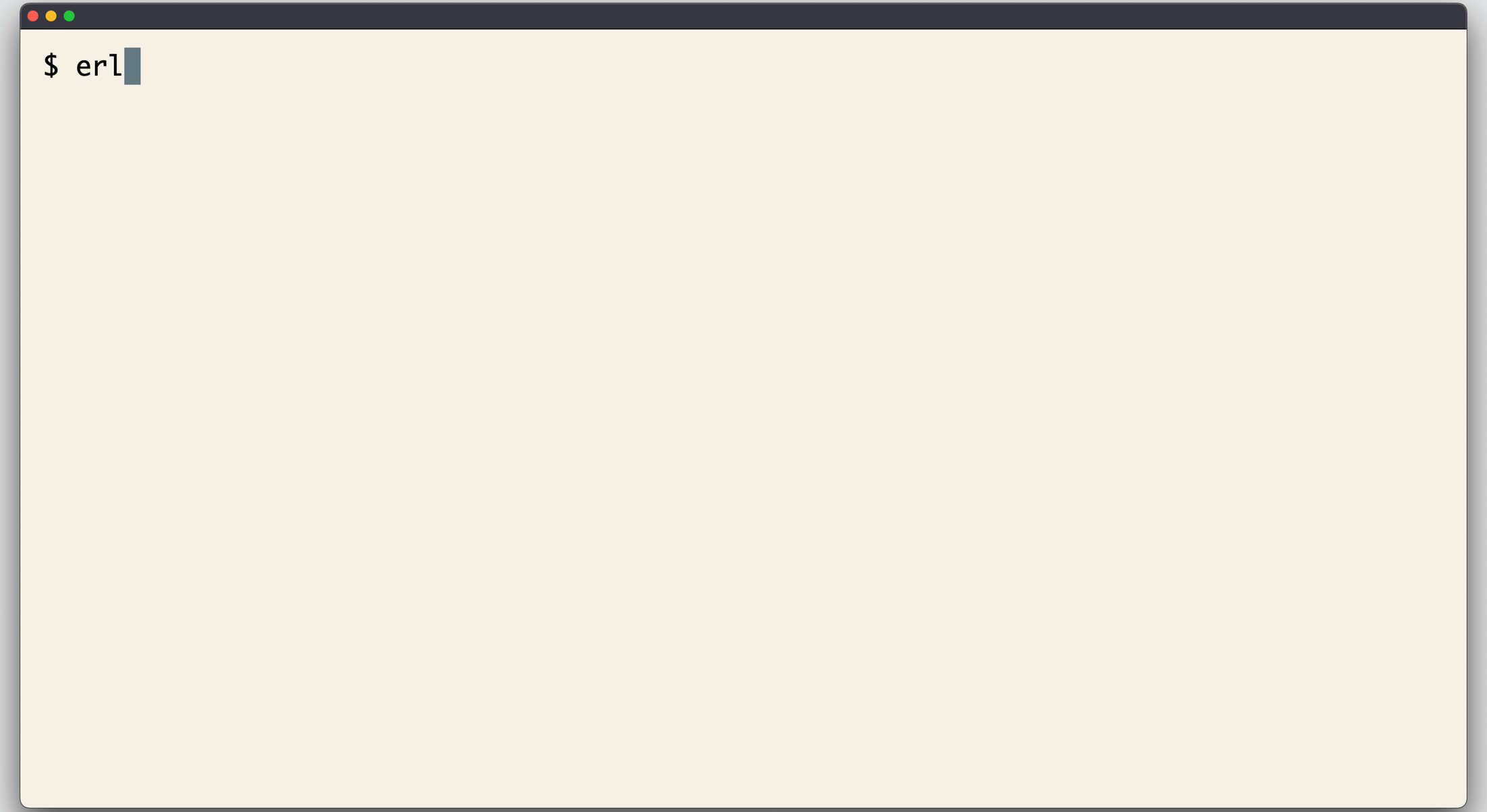
```
iex(2)> Req.get!("
```

```
iex(2)> Req.get!("https://api.github.com/repos/wojtekmach/req")
```

```
iex(2)> Req.get!("https://api.github.com/repos/wojtekmach/req").body
```

```
iex(2)> Req.get!("https://api.github.com/repos/wojtekmach/req").body["description"]
```

```
iex(2)> Req.get!("https://api.github.com/repos/wojtekmach/req").body["description"]
"Req is a batteries-included HTTP client for Elixir."
iex(3)>
```


$ erl

```
1> 'Elixir.Mix':install([req]).
```

```
1> 'Elixir.Mix':install([req]).
ok
2>
```

```
1> 'Elixir.Mix':install([req]).
ok
2> {ok, Resp} = 'Elixir.Req':get(~"https://api.github.com/repos/wojtekmach/req"),
.. #{body := #{~"description" := Description }} = Resp,
.. Description.
```

```
1> 'Elixir.Mix':install([req]).
ok
2> {ok, Resp} = 'Elixir.Req':get(~"https://api.github.com/repos/wojtekmach/req"),
   #{body := #{~"description" := Description }} = Resp,
   Description.
<<"Req is a batteries-included HTTP client for Elixir.">>
3>
```

```
1> 'Elixir.Mix':install([req]).
ok
2> {ok, Resp} = 'Elixir.Req':get(~"https://api.github.com/repos/wojtekmach/req"),
   #{body := #{~"description" := Description }} = Resp,
   Description.
<<"Req is a batteries-included HTTP client for Elixir.">>
3> h('Elixir.Req').
```

```
3> h('Elixir.Req').

        Elixir.Req

  The high-level API.

  Req is composed of:

    • Req - the high-level API (you're here!)

    • Req.Request - the low-level API and the request struct

    • Req.Steps - the collection of built-in steps

    • Req.Test - the testing conveniences

  The high-level API is what most users of Req will use most of the time.

Examples
more (y/n)? (y)
```

```
$ cat .erlang
```

```
$ cat .erlang
Root = filename:dirname(filename:dirname(os:find_executable("elixir"))),
code:add_path(filename:join([Root, "lib", "elixir", "ebin"])),
code:add_path(filename:join([Root, "lib", "mix", "ebin"])),
code:add_path(filename:join([Root, "lib", "logger", "ebin"])).
$
```

```
$ cat .erlang
Root = filename:dirname(filename:dirname(os:find_executable("elixir"))),
code:add_path(filename:join([Root, "lib", "elixir", "ebin"])),
code:add_path(filename:join([Root, "lib", "mix", "ebin"])),
code:add_path(filename:join([Root, "lib", "logger", "ebin"])).
$
```

```
$ cat .erlang
Root = filename:dirname(filename:dirname(os:find_executable("elixir"))),
code:add_path(filename:join([Root, "lib", "elixir", "ebin"])),
code:add_path(filename:join([Root, "lib", "mix", "ebin"])),
code:add_path(filename:join([Root, "lib", "logger", "ebin"])).
$
```

```
$ cat .erlang
Root = filename:dirname(filename:dirname(os:find_executable("elixir"))),
code:add_path(filename:join([Root, "lib", "elixir", "ebin"])),
code:add_path(filename:join([Root, "lib", "mix", "ebin"])),
code:add_path(filename:join([Root, "lib", "logger", "ebin"])).
$
```

```
1> 'Elixir.Mix':install([telemetry]).
```

```
1> 'Elixir.Mix':install([telemetry]).
Resolving Hex dependencies...
Resolution completed in 0.009s
New:
  telemetry 1.3.0
* Getting telemetry (Hex package)
===> Analyzing applications...
===> Compiling telemetry
ok
2>
```

```
2> h(telemetry).
```

```
2> h(telemetry).

        telemetry

  telemetry allows you to invoke certain functions whenever a particular
  event is emitted.

  For more information see the documentation for attach/4,
  attach_many/4 and execute/2.
ok
3>
```

```
telemetry$ cat src/telemetry.erl
```

```
telemetry$ cat src/telemetry.erl
-module(telemetry).

-export([attach/4,
         attach_many/4,
         detach/1,
         list_handlers/1,
         execute/2,
         execute/3,
         span/3]).

-export([report_cb/1]).

-include("telemetry.hrl").

?MODULEDOC("""
`telemetry` allows you to invoke certain functions whenever a
particular event is emitted.

For more information see the documentation for `attach/4`, `attach_many/4`
```

```
telemetry$ cat src/telemetry.erl
-module(telemetry).

-export([attach/4,
         attach_many/4,
         detach/1,
         list_handlers/1,
         execute/2,
         execute/3,
         span/3]).

-export([report_cb/1]).

-include("telemetry.hrl").

?MODULEDOC("""
`telemetry` allows you to invoke certain functions whenever a
particular event is emitted.

For more information see the documentation for `attach/4`, `attach_many/4`
```

```
telemetry$ cat src/telemetry.hrl
```

```
telemetry$ cat src/telemetry.hrl
%% (...)

-if(?OTP_RELEASE >= 27).
-define(MODULEDOC(Str), -moduledoc(Str)).
-define(DOC(Str), -doc(Str)).
-else.
-define(MODULEDOC(Str), -compile([])).
-define(DOC(Str), -compile([])).
-endif.
telemetry$
```

```
telemetry$ cat src/telemetry.hrl
%% (...)

-if(?OTP_RELEASE >= 27).
-define(MODULEDOC(Str), -moduledoc(Str)).
-define(DOC(Str), -doc(Str)).
-else.
-define(MODULEDOC(Str), -compile([])).
-define(DOC(Str), -compile([])).
-endif.
telemetry$
```

```
telemetry$ cat src/telemetry.hrl
%% (...)

-if(?OTP_RELEASE >= 27).
-define(MODULEDOC(Str), -moduledoc(Str)).
-define(DOC(Str), -doc(Str)).
-else.
-define(MODULEDOC(Str), -compile([])).
-define(DOC(Str), -compile([])).
-endif.
telemetry$
```

github.com/wojtekmach/mix_install_examples

mix_install_examples

Public

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main | Go to file t | Code

zkayser Add example Pacer workflow (#44) 824f7e2 · last month 111 Commits

.formatter.exs	Update .formatter.exs	3 years ago
.gitignore	Add c_libcurl.exs	2 years ago
README.md	Update README.md	2 years ago
absinthe.exs	Absinthe example (#39)	4 months ago
ash.exs	Upgrade to Ash 3.0! Add `profile_b...`	5 months ago
ash_json_api.exs	Add ash_json_api.exs (#41)	3 months ago
bandit.exs	Update bandit.exs (#34)	8 months ago
beam_file.exs	Add beam_file.exs	last month
benchee.exs	Add benchee.exs	3 years ago
brod.exs	Brod example (#15)	2 years ago
brotli.exs	Update brotli.exs	2 years ago
bypass.exs	Update bypass.exs	3 years ago

About

A collection of simple Elixir scripts that are using Mix.install/2.

Readme
Activity
717 stars
26 watching
55 forks

Contributors 25

+ 11 contributors

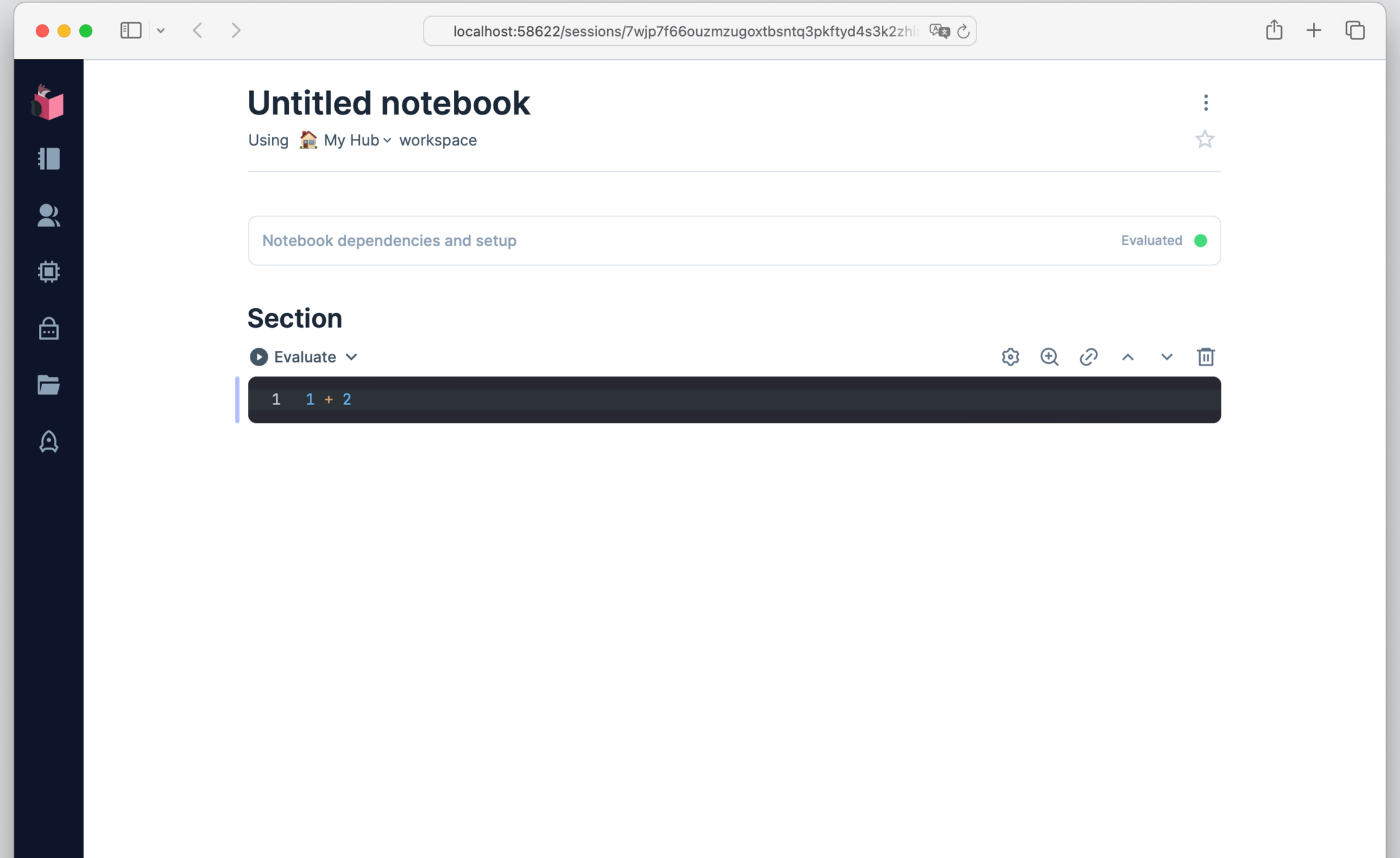
Languages

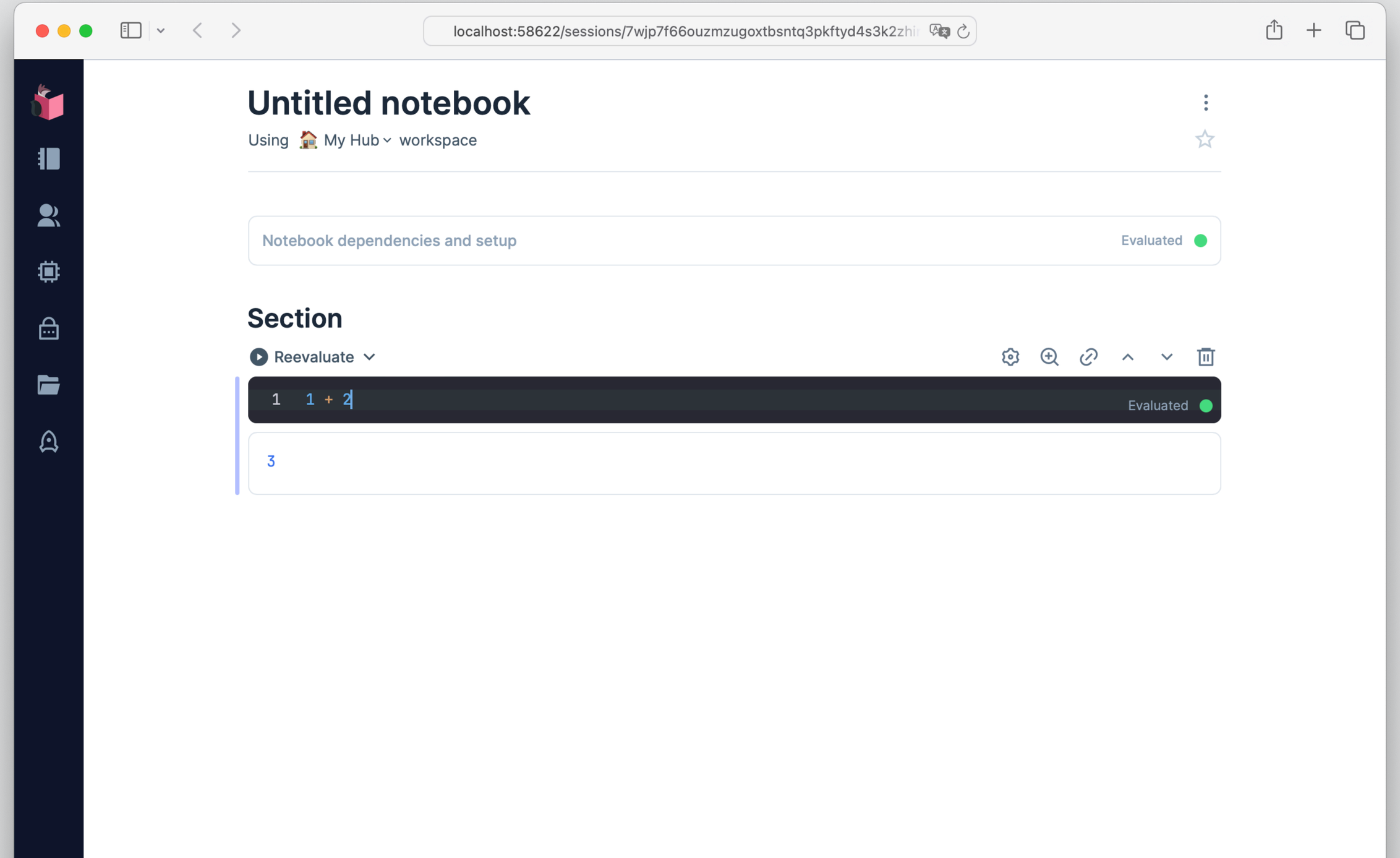
Elixir 100.0%

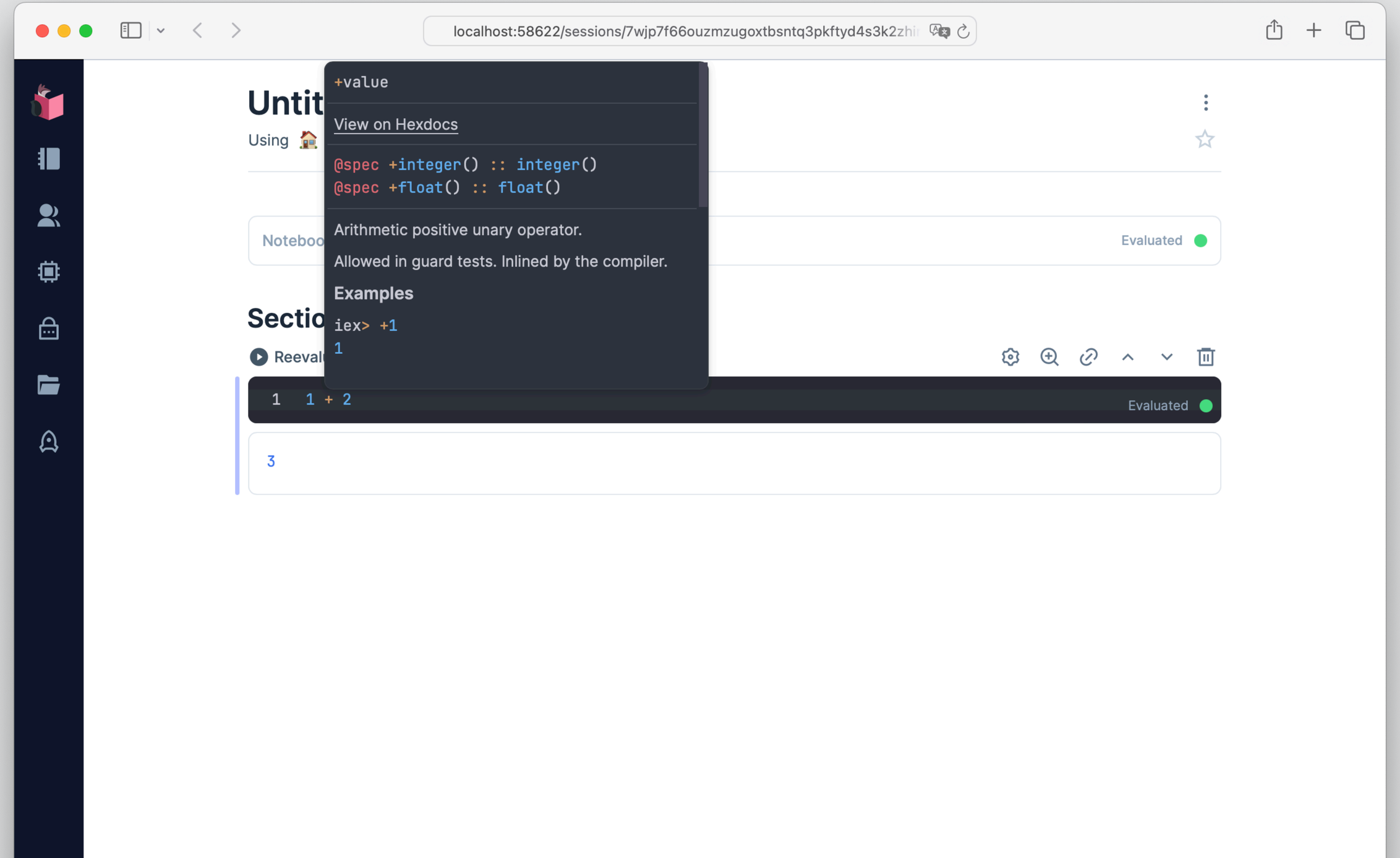
Suggested workflows

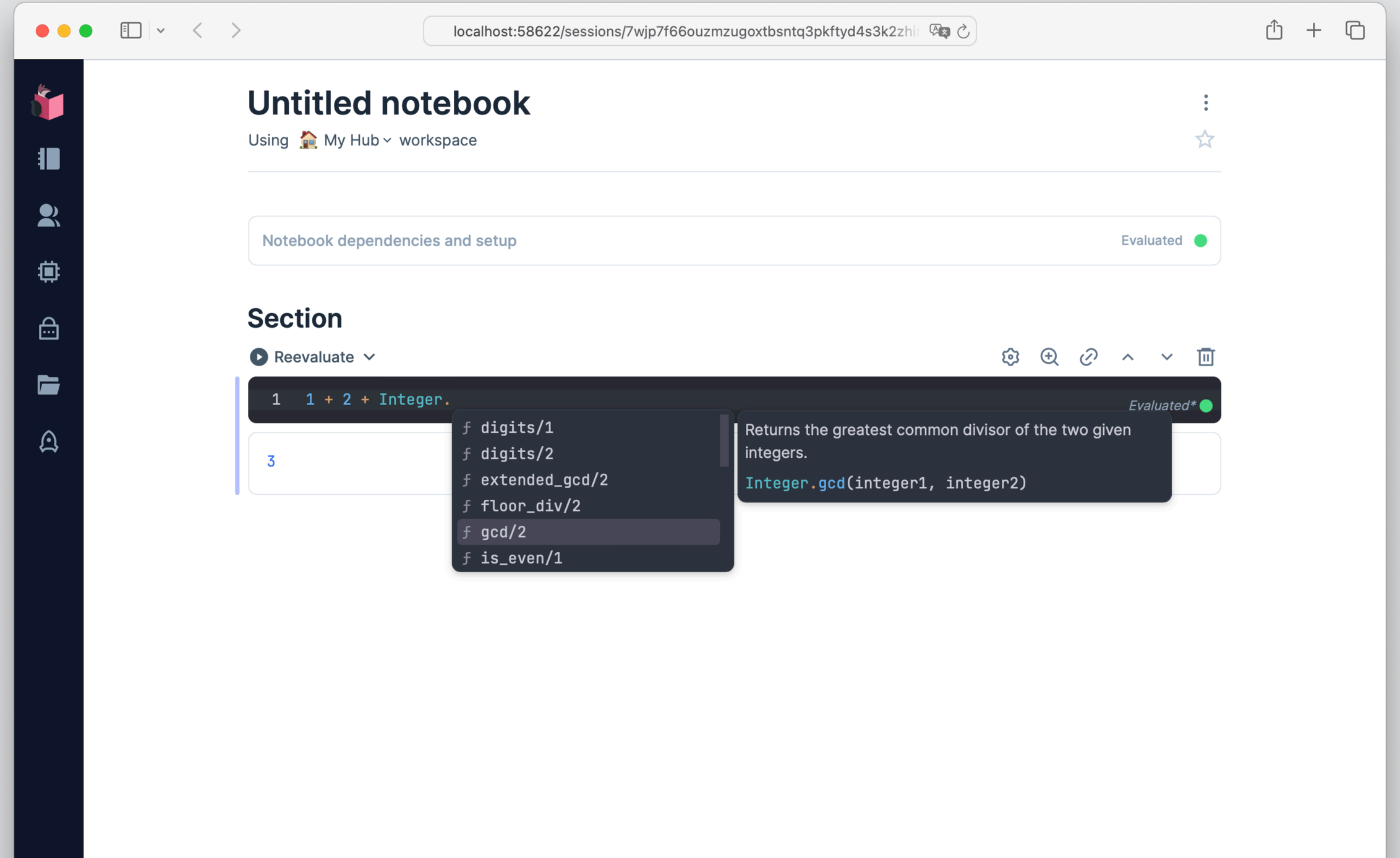
Based on your tech stack

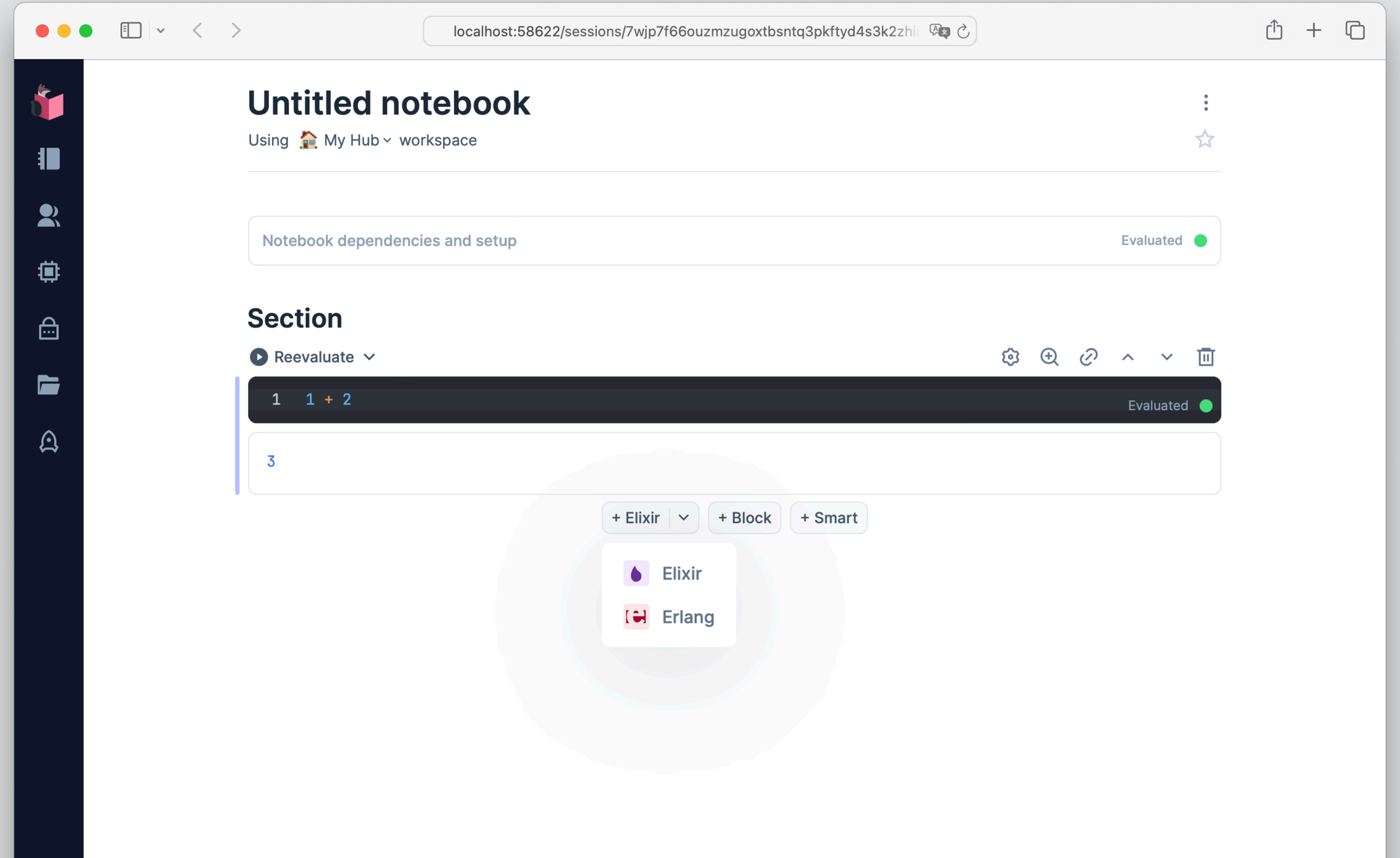
Livebook

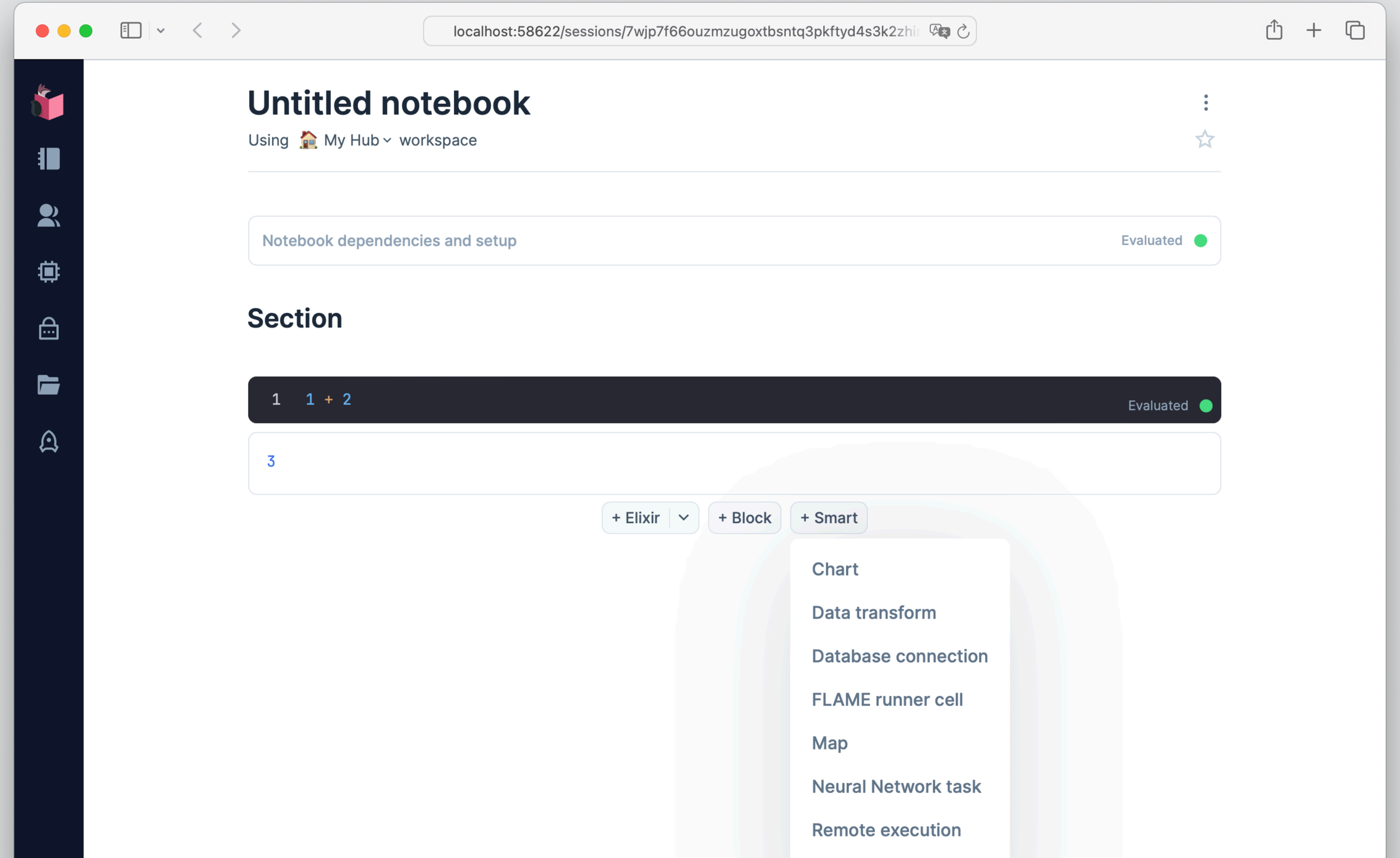

localhost:58622/sessions/7wjp7f66ouzmzugoxtbsntq3pkftyd4s3k2zhi
Untitled notebook
Using My Hub workspace
Notebook dependencies and setup
Evaluated
Section
Evaluate
1 1 + 2


localhost:58622/sessions/7wjp7f66ouzmzugoxtbsntq3pkftyd4s3k2zhi
Untitled notebook
Using My Hub workspace
Notebook dependencies and setup
Evaluated
Section
Reevaluate
1 1 + 2
Evaluated
3


localhost:58622/sessions/7wjp7f66ouzmzugoxtbsntq3pkftyd4s3k2zhi
+value
View on Hexdocs
@spec +integer() :: integer()
@spec +float() :: float()
Arithmetic positive unary operator.
Allowed in guard tests. Inlined by the compiler.
Examples
iex> +1
1
Using
Evaluated
Reeval
1 1 + 2
Evaluated
3


localhost:58622/sessions/7wjp7f66ouzmzugoxtbsntq3pkftyd4s3k2zhi
Untitled notebook
Using My Hub workspace
Notebook dependencies and setup
Evaluated
Section
Reevaluate
1 1 + 2 + Integer.
Evaluated*
3
digits/1
digits/2
extended_gcd/2
floor_div/2
gcd/2
is_even/1
Returns the greatest common divisor of the two given integers.
Integer.gcd(integer1, integer2)


localhost:58622/sessions/7wjp7f66ouzmzugoxtbsntq3pkftyd4s3k2zhi
Untitled notebook
Using My Hub workspace
Notebook dependencies and setup
Evaluated
Section
Reevaluate
1 1 + 2
Evaluated
3
+ Elixir
+ Block
+ Smart
Elixir
Erlang


localhost:58622/sessions/7wjp7f66ouzmzugoxtbsntq3pkftyd4s3k2zhi
Untitled notebook
Using My Hub workspace
Notebook dependencies and setup
Evaluated
Section
1 1 + 2
Evaluated
3
+ Elixir
+ Block
+ Smart
Chart
Data transform
Database connection
FLAME runner cell
Map
Neural Network task
Remote execution

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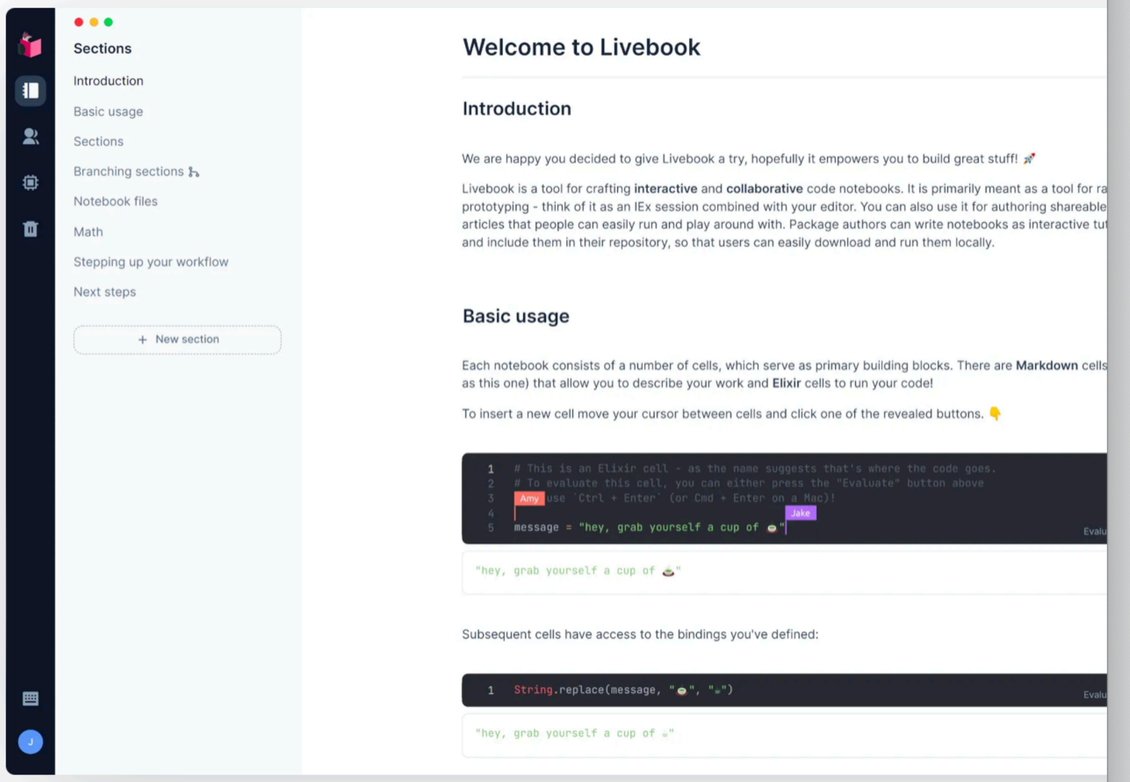

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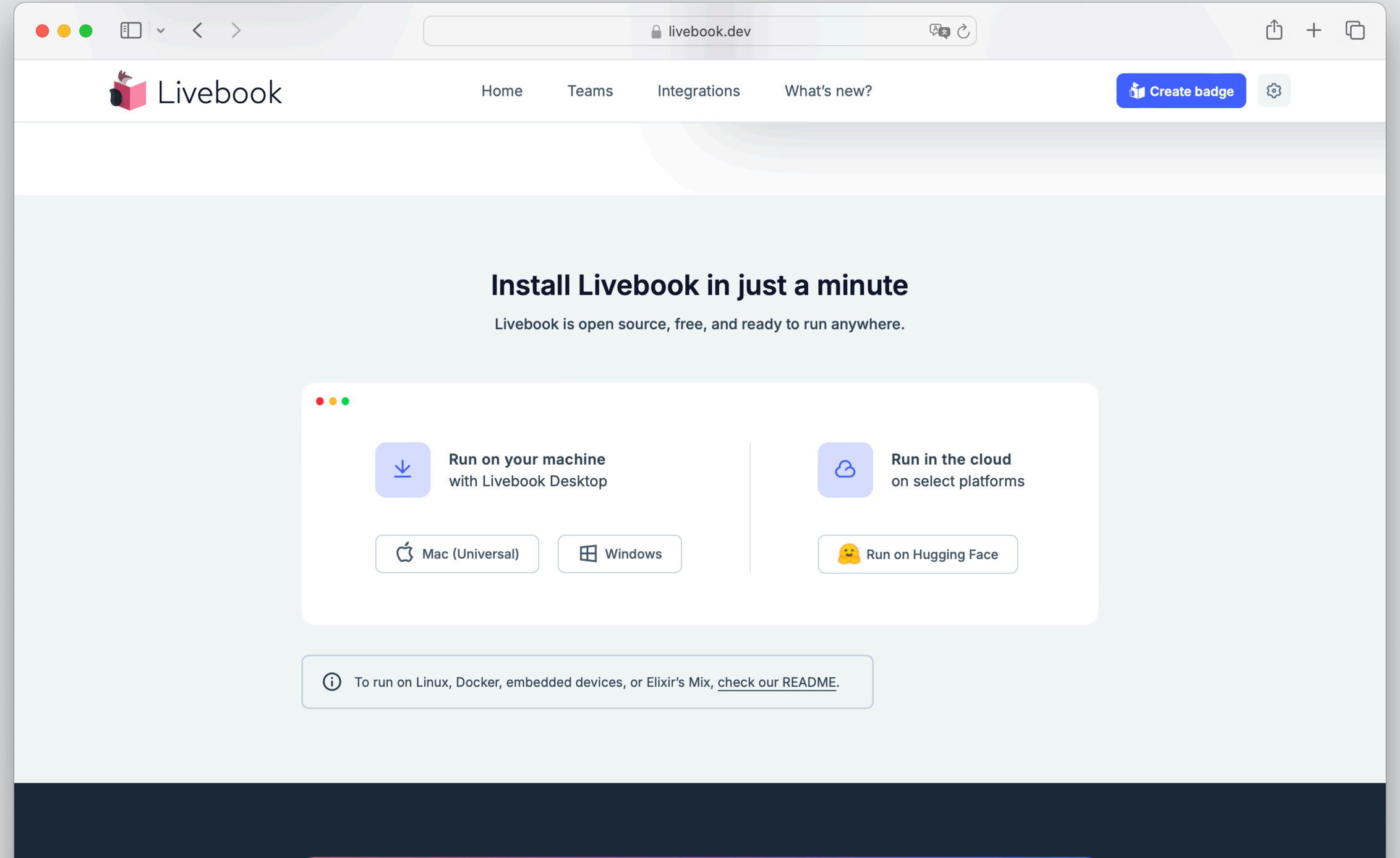
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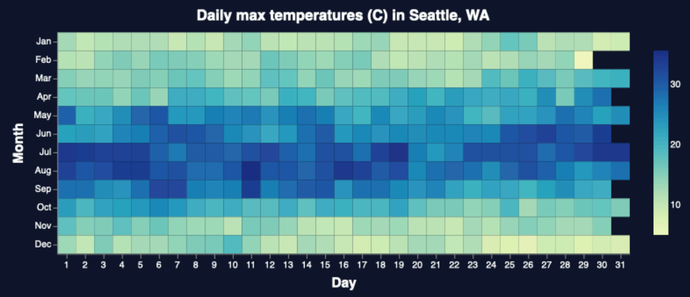

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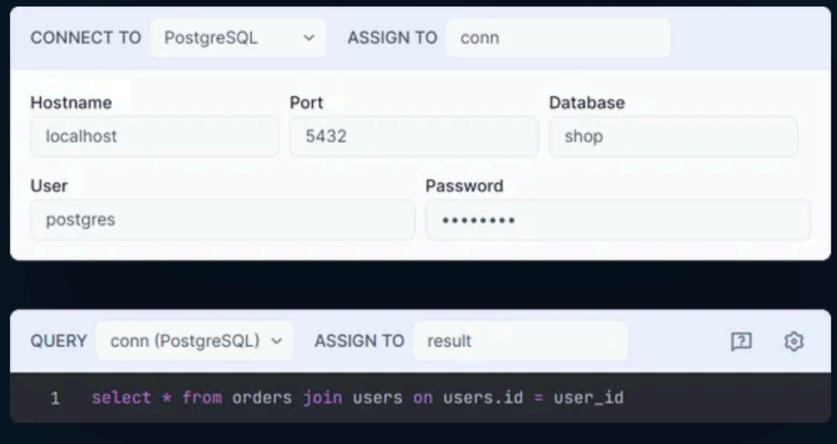

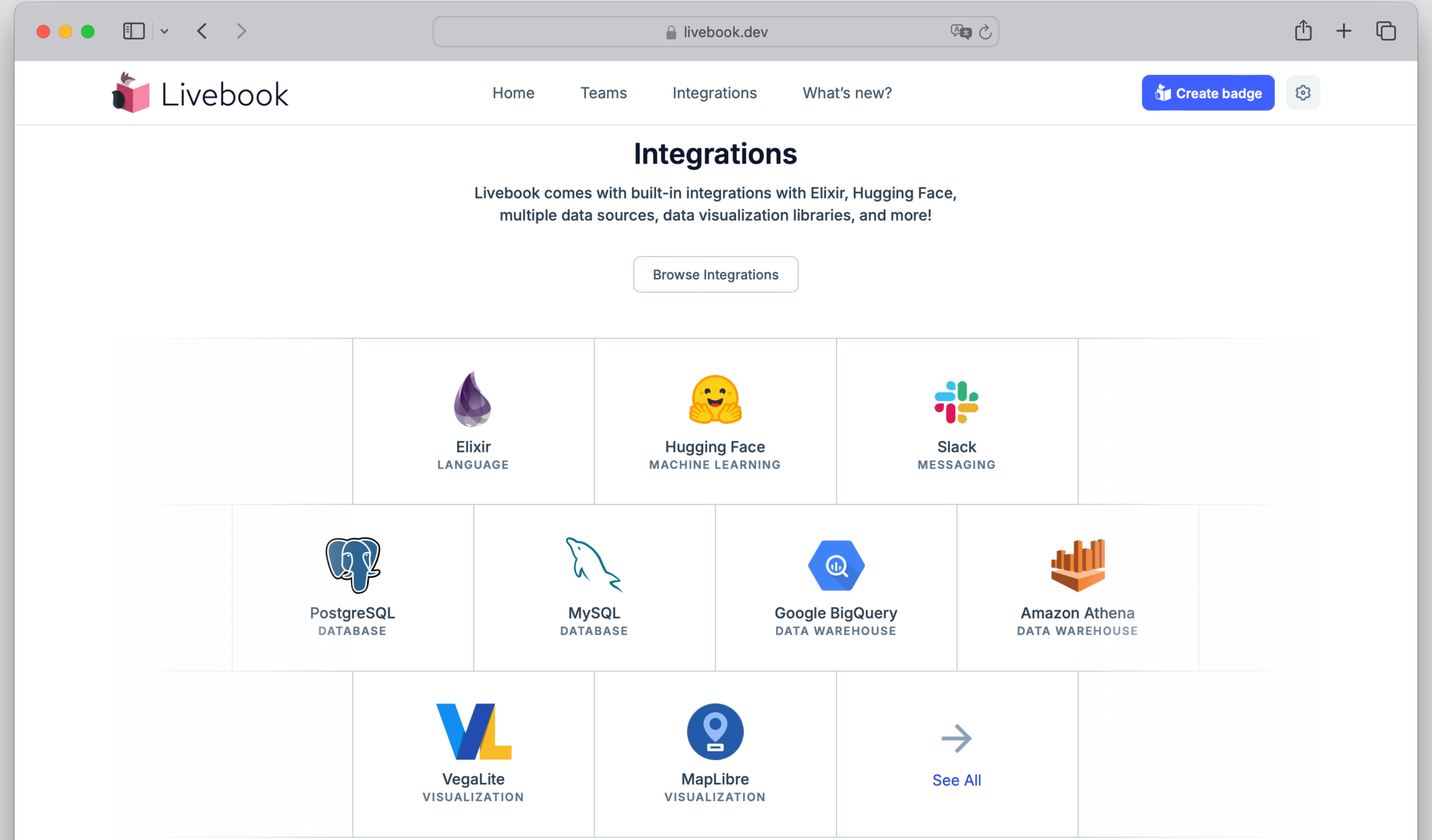
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Integrations
Livebook comes with built-in integrations with Elixir, Hugging Face, multiple data sources, data visualization libraries, and more!
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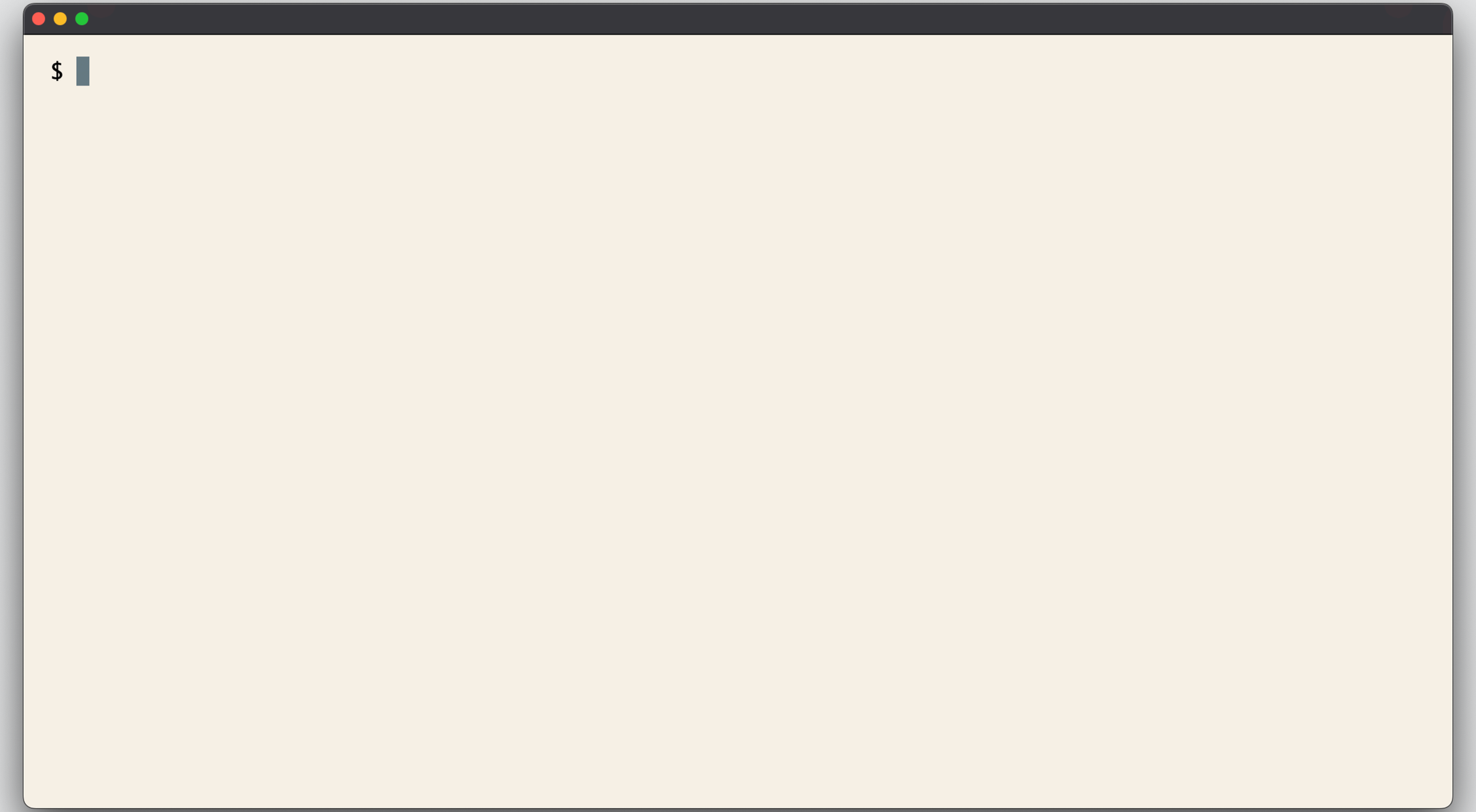
MySQL
DATABASE
Google BigQuery
DATA WAREHOUSE
Amazon Athena
DATA WAREHOUSE
VegaLite
VISUALIZATION
MapLibre
VISUALIZATION
See All

Elixir Install



```
$ curl -fsSLO https://elixir-install.org/install.sh
```

```
$ curl -fsSLO https://elixir-install.org/install.sh
$
```

```
$ curl -fsSLO https://elixir-install.org/install.sh
$ sh install.sh elixir@1.17.3 otp@27.1.1
```

```
$ curl -fsSLO https://elixir-install.org/install.sh
$ sh install.sh elixir@1.17.3 otp@27.1.1
downloading https://github.com/erlef/otp_builds/releases/download/OTP-27.1.1/OTP-27.1.1-macos-arm64.tar.gz
unpacking OTP-27.1.1-macos-arm64.tar.gz to /Users/wojtek/.elixir-install/installs/otp/27.1.1...
checking OTP... 27 ok
downloading https://github.com/elixir-lang/elixir/releases/download/v1.17.3/elixir-otp-27.zip
unpacking elixir-otp-27.zip to /Users/wojtek/.elixir-install/installs/elixir/1.17.3-otp-27...
checking Elixir... 1.17.3 ok

Add this to your shell:

    export PATH=$HOME/.elixir-install/installs/otp/27.1.1/bin:$PATH
    export PATH=$HOME/.elixir-install/installs/elixir/1.17.3-otp-27/bin:$PATH

$
```

```
$ curl -fsSLO https://elixir-install.org/install.sh
$ sh install.sh elixir@1.17.3 otp@27.1.1
downloading https://github.com/erlef/otp_builds/releases/download/OTP-27.1.1/OTP-27.1.1-macos-arm64.tar.gz
unpacking OTP-27.1.1-macos-arm64.tar.gz to /Users/wojtek/.elixir-install/installs/otp/27.1.1...
checking OTP... 27 ok
downloading https://github.com/elixir-lang/elixir/releases/download/v1.17.3/elixir-otp-27.zip
unpacking elixir-otp-27.zip to /Users/wojtek/.elixir-install/installs/elixir/1.17.3-otp-27...
checking Elixir... 1.17.3 ok

Add this to your shell:

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$ export PATH=$HOME/.elixir-install/installs/otp/27.1.1/bin:$PATH
$
```

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$ curl -fsSLO https://elixir-install.org/install.sh
$ sh install.sh elixir@1.17.3 otp@27.1.1
downloading https://github.com/erlef/otp_builds/releases/download/OTP-27.1.1/OTP-27.1.1-macos-arm64.tar.gz
unpacking OTP-27.1.1-macos-arm64.tar.gz to /Users/wojtek/.elixir-install/installs/otp/27.1.1...
checking OTP... 27 ok
downloading https://github.com/elixir-lang/elixir/releases/download/v1.17.3/elixir-otp-27.zip
unpacking elixir-otp-27.zip to /Users/wojtek/.elixir-install/installs/elixir/1.17.3-otp-27...
checking Elixir... 1.17.3 ok

Add this to your shell:

    export PATH=$HOME/.elixir-install/installs/otp/27.1.1/bin:$PATH
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$ export PATH=$HOME/.elixir-install/installs/otp/27.1.1/bin:$PATH
$ export PATH=$HOME/.elixir-install/installs/elixir/1.17.3-otp-27/bin:$PATH
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$ curl -fsSLO https://elixir-install.org/install.sh
$ sh install.sh elixir@1.17.3 otp@27.1.1
downloading https://github.com/erlef/otp_builds/releases/download/OTP-27.1.1/OTP-27.1.1-macos-arm64.tar.gz
unpacking OTP-27.1.1-macos-arm64.tar.gz to /Users/wojtek/.elixir-install/installs/otp/27.1.1...
checking OTP... 27 ok
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unpacking elixir-otp-27.zip to /Users/wojtek/.elixir-install/installs/elixir/1.17.3-otp-27...
checking Elixir... 1.17.3 ok

Add this to your shell:

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    export PATH=$HOME/.elixir-install/installs/elixir/1.17.3-otp-27/bin:$PATH

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$ export PATH=$HOME/.elixir-install/installs/elixir/1.17.3-otp-27/bin:$PATH
$ iex
```

```
$ curl -fsSLO https://elixir-install.org/install.sh
$ sh install.sh elixir@1.17.3 otp@27.1.1
downloading https://github.com/erlef/otp_builds/releases/download/OTP-27.1.1/OTP-27.1.1-macos-arm64.tar.gz
unpacking OTP-27.1.1-macos-arm64.tar.gz to /Users/wojtek/.elixir-install/installs/otp/27.1.1...
checking OTP... 27 ok
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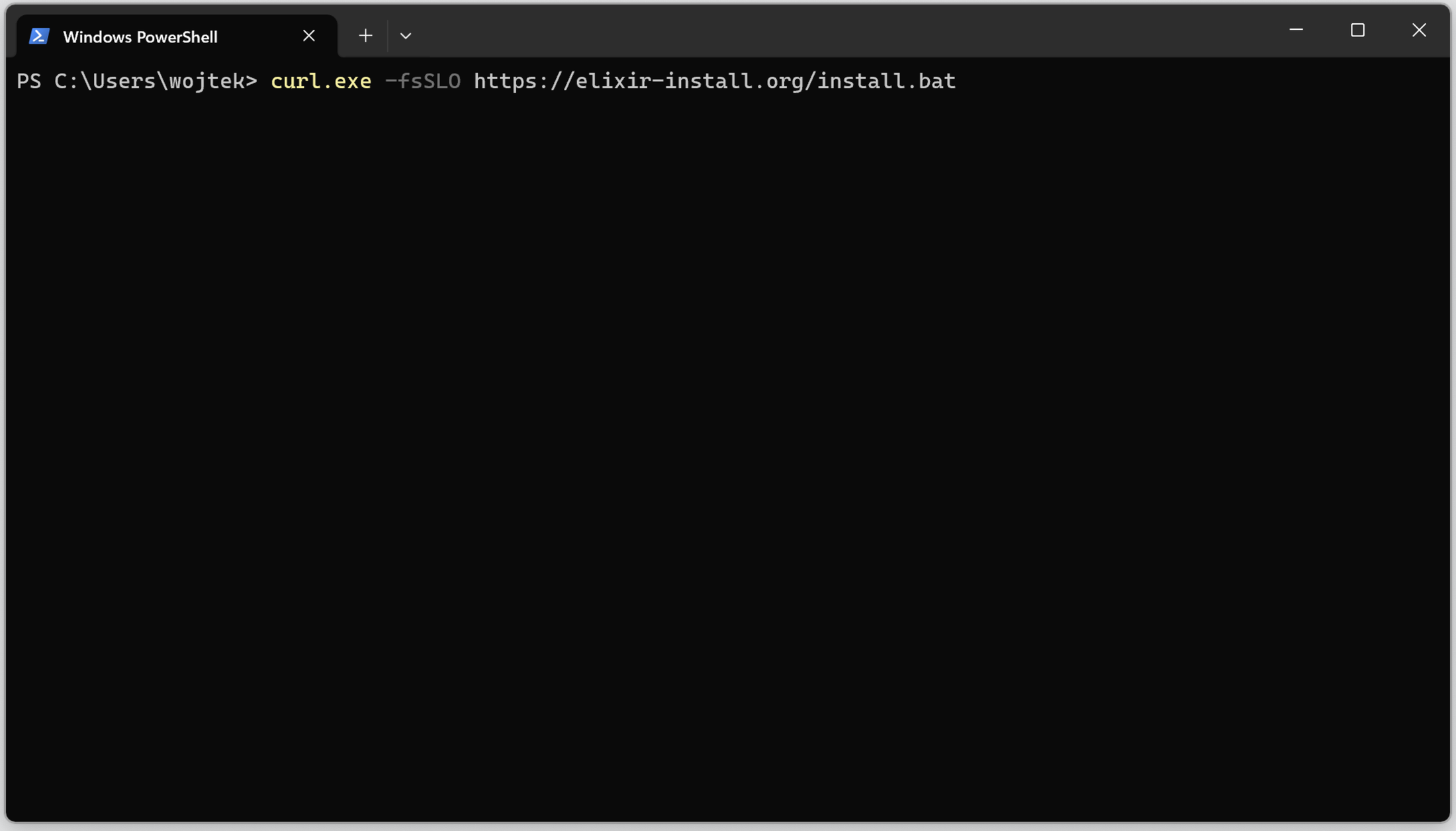
unpacking elixir-otp-27.zip to /Users/wojtek/.elixir-install/installs/elixir/1.17.3-otp-27...
checking Elixir... 1.17.3 ok

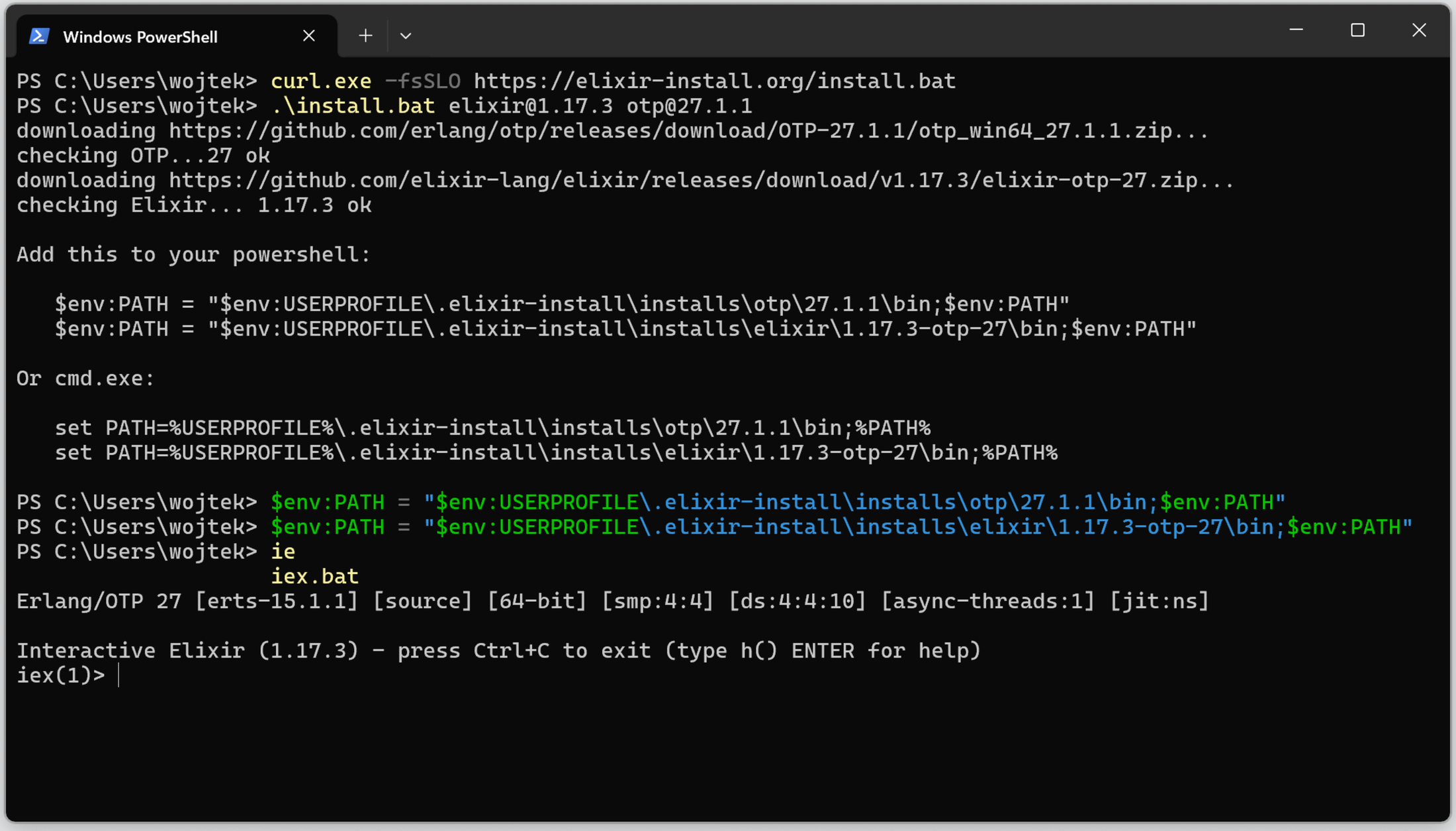
Add this to your shell:

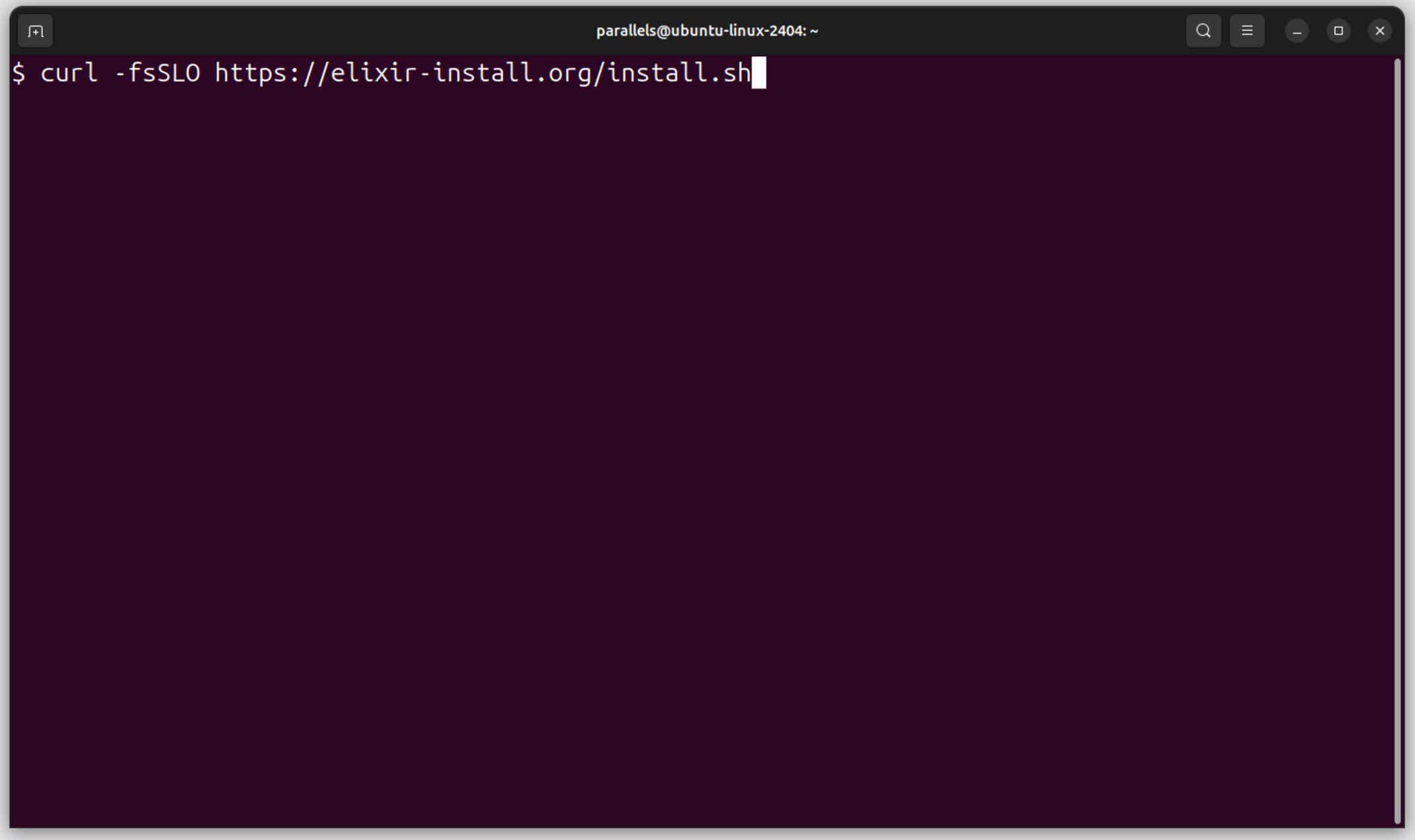
    export PATH=$HOME/.elixir-install/installs/otp/27.1.1/bin:$PATH
    export PATH=$HOME/.elixir-install/installs/elixir/1.17.3-otp-27/bin:$PATH

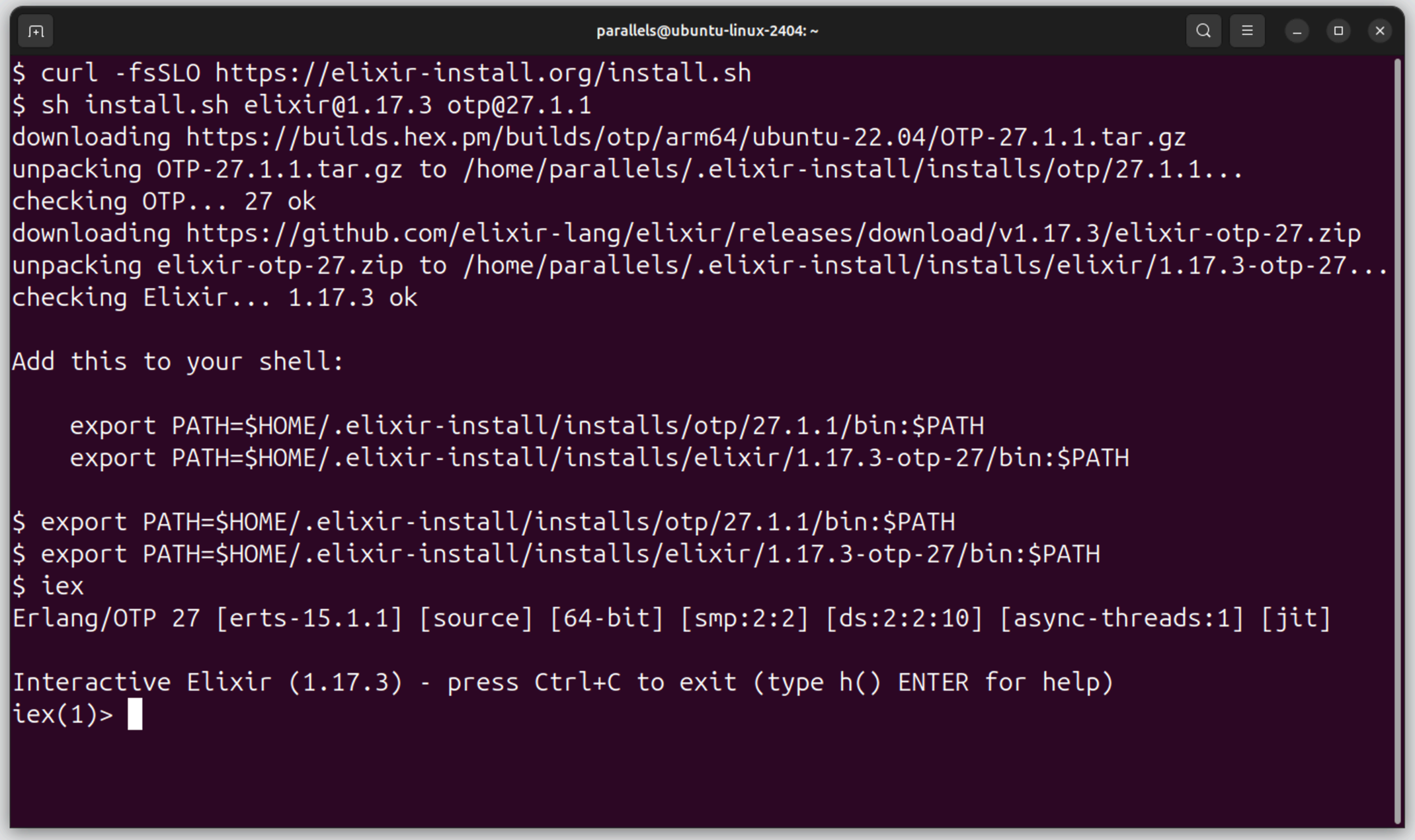
$ export PATH=$HOME/.elixir-install/installs/otp/27.1.1/bin:$PATH
$ export PATH=$HOME/.elixir-install/installs/elixir/1.17.3-otp-27/bin:$PATH
$ iex
Erlang/OTP 27 [erts-15.1.1] [source] [64-bit] [smp:8:8] [ds:8:8:10] [async-threads:1] [jit]

Interactive Elixir (1.17.3) - press Ctrl+C to exit (type h() ENTER for help)
iex(1)>
```


Windows PowerShell
PS C:\Users\wojtek> curl.exe -fsSLO https://elixir-install.org/install.bat


Windows PowerShell
PS C:\Users\wojtek> curl.exe -fsSLO https://elixir-install.org/install.bat
PS C:\Users\wojtek> .\install.bat elixir@1.17.3 otp@27.1.1
downloading https://github.com/erlang/otp/releases/download/OTP-27.1.1/otp_win64_27.1.1.zip...
checking OTP...27 ok
downloading https://github.com/elixir-lang/elixir/releases/download/v1.17.3/elixir-otp-27.zip...
checking Elixir... 1.17.3 ok
Add this to your powershell:
$env:PATH = "$env:USERPROFILE\.elixir-install\installs\otp\27.1.1\bin;$env:PATH"
$env:PATH = "$env:USERPROFILE\.elixir-install\installs\elixir\1.17.3-otp-27\bin;$env:PATH"
Or cmd.exe:
set PATH=%USERPROFILE%\.elixir-install\installs\otp\27.1.1\bin;%PATH%
set PATH=%USERPROFILE%\.elixir-install\installs\elixir\1.17.3-otp-27\bin;%PATH%
PS C:\Users\wojtek> $env:PATH = "$env:USERPROFILE\.elixir-install\installs\otp\27.1.1\bin;$env:PATH"
PS C:\Users\wojtek> $env:PATH = "$env:USERPROFILE\.elixir-install\installs\elixir\1.17.3-otp-27\bin;$env:PATH"
PS C:\Users\wojtek> ie
iex.bat
Erlang/OTP 27 [erts-15.1.1] [source] [64-bit] [smp:4:4] [ds:4:4:10] [async-threads:1] [jit:ns]
Interactive Elixir (1.17.3) - press Ctrl+C to exit (type h() ENTER for help)
iex(1)>


parallels@ubuntu-linux-2404: ~
$ curl -fsSLO https://elixir-install.org/install.sh


parallels@ubuntu-linux-2404: ~
$ curl -fsSLO https://elixir-install.org/install.sh
$ sh install.sh elixir@1.17.3 otp@27.1.1
downloading https://builds.hex.pm/builds/otp/arm64/ubuntu-22.04/OTP-27.1.1.tar.gz
unpacking OTP-27.1.1.tar.gz to /home/parallels/.elixir-install/installs/otp/27.1.1...
checking OTP... 27 ok
downloading https://github.com/elixir-lang/elixir/releases/download/v1.17.3/elixir-otp-27.zip
unpacking elixir-otp-27.zip to /home/parallels/.elixir-install/installs/elixir/1.17.3-otp-27...
checking Elixir... 1.17.3 ok
Add this to your shell:
export PATH=$HOME/.elixir-install/installs/otp/27.1.1/bin:$PATH
export PATH=$HOME/.elixir-install/installs/elixir/1.17.3-otp-27/bin:$PATH
$ export PATH=$HOME/.elixir-install/installs/otp/27.1.1/bin:$PATH
$ export PATH=$HOME/.elixir-install/installs/elixir/1.17.3-otp-27/bin:$PATH
$ iex
Erlang/OTP 27 [erts-15.1.1] [source] [64-bit] [smp:2:2] [ds:2:2:10] [async-threads:1] [jit]
Interactive Elixir (1.17.3) - press Ctrl+C to exit (type h() ENTER for help)
iex(1)>

```
$ sh install.sh elixir@main otp@master
```

Proposal: elixir-lang.org/install.sh

Wojtek Mach

do elixir-lang-core

13 wrz 2024, 14:06:26

Hey everyone,

We already have multiple ways of installing Elixir (https://elixir-lang.org/install.html) but I believe we can still do better. Elixir is cross-platform but Erlang/OTP is not. We need to get OTP for **our OS/architecture**, ideally prebuilt or otherwise we need to compile it from source. I've listed some challenges with existing installation methods here: https://github.com/erlef/build-and-packaging-wg/issues/80.

Since a few releases ago, Elixir project maintains installer for Windows, e.g. <https://github.com/elixir-lang/elixir/releases/download/v1.17.2/elixir-otp-27.exe>, but that still requires OTP. The installer tries to be helpful, finds whether OTP is already installed and the version matches and otherwise show a link to download it. This is a GUI installer that fortunately can be running headless, `.\elixir-otp-27.exe /S /D=C:\elixir`, but, again, we need to first install OTP.

I believe we can significantly improve Elixir getting started experience by having a "one click install" but for terminals, download a single script that installs Elixir and OTP for their system.

I've created a proof-of-concept called Elixir Install (https://elixir-install.org) and we can use it in bash for macOS/Ubuntu/Windows:

```
$ curl -fsS https://elixir-install.org/install.sh
$ sh install.sh eli...@1.17.2 o...@27.0.1
$ export PATH=$HOME/.elixir-install/installs/otp/27.0.1/bin:$PATH
$ export PATH=$HOME/.elixir-install/installs/elixir/1.17.2-otp-27/bin:$PATH
iex
```

and Powershell on Windows:

```
> curl.exe -fsS https://elixir-install.org/install.bat
> .\install.bat eli...@1.17.2 o...@27.0.1
> $env:PATH = "$env:USERPROFILE\.elixir-install\installs\otp\27.0.1\bin;$env:PATH"
> $env:PATH = "$env:USERPROFILE\.elixir-install\installs\elixir\1.17.2-otp-27\bin;$env:PATH"
```

README Apache-2.0 license

BEAMUp

Release passing

A tool for installing languages (support for Gleam, Erlang and Elixir) that run on the Erlang VM (BEAM) and related components -- component support to come in the future.

Install

An install script is provided for both Linux/Mac:

```
curl --proto '=https' --tlsv1.2 -LsSf https://github.com/tsloughter/beamup/releases/c
```

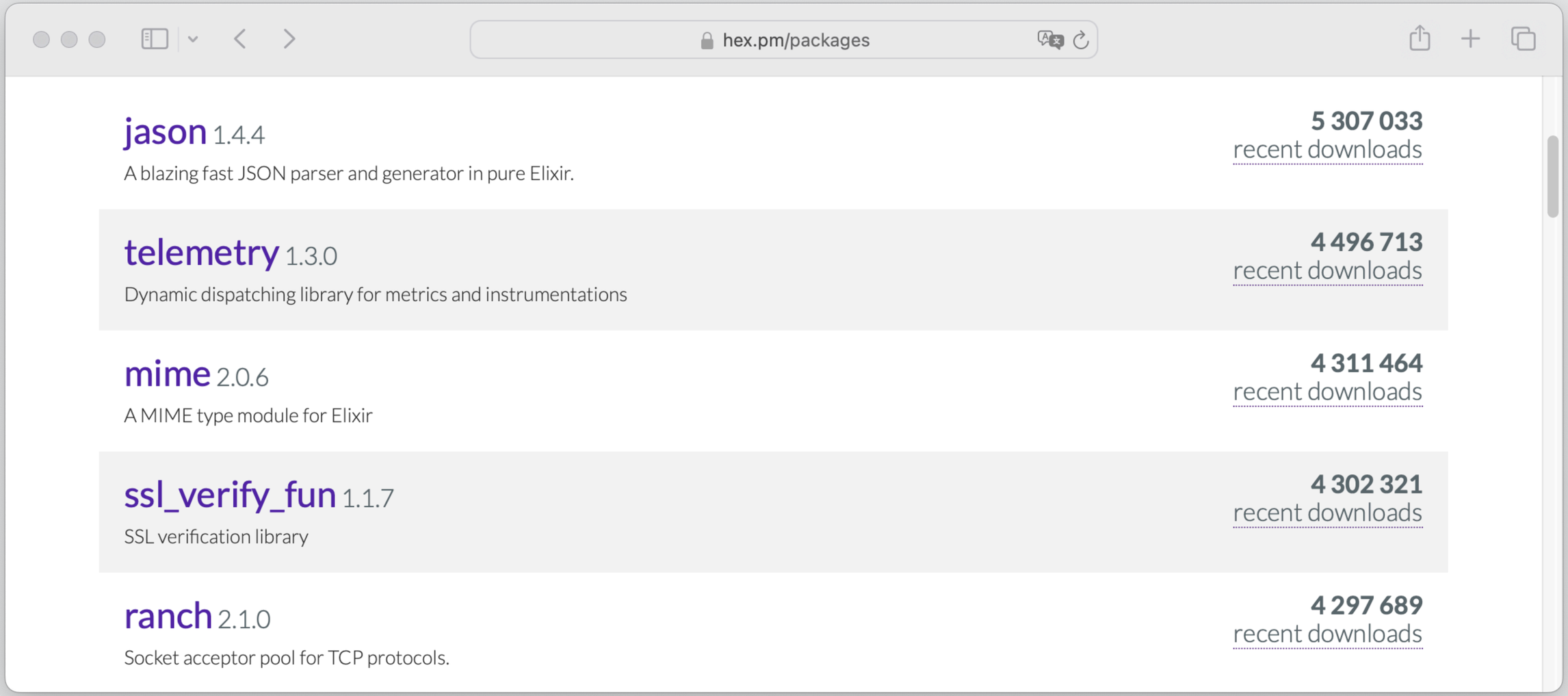
And Windows Powershell:

+ 20 deployments

Languages

Rust 99.0% Other 1.0%

Top 10 packages (recent downloads)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jason 1.4.4
A blazing fast JSON parser and generator in pure Elixir.
5 307 033
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Dynamic dispatching library for metrics and instrumentations
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A MIME type module for Elixir
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4 302 321
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Socket acceptor pool for TCP protocols.
4 297 689
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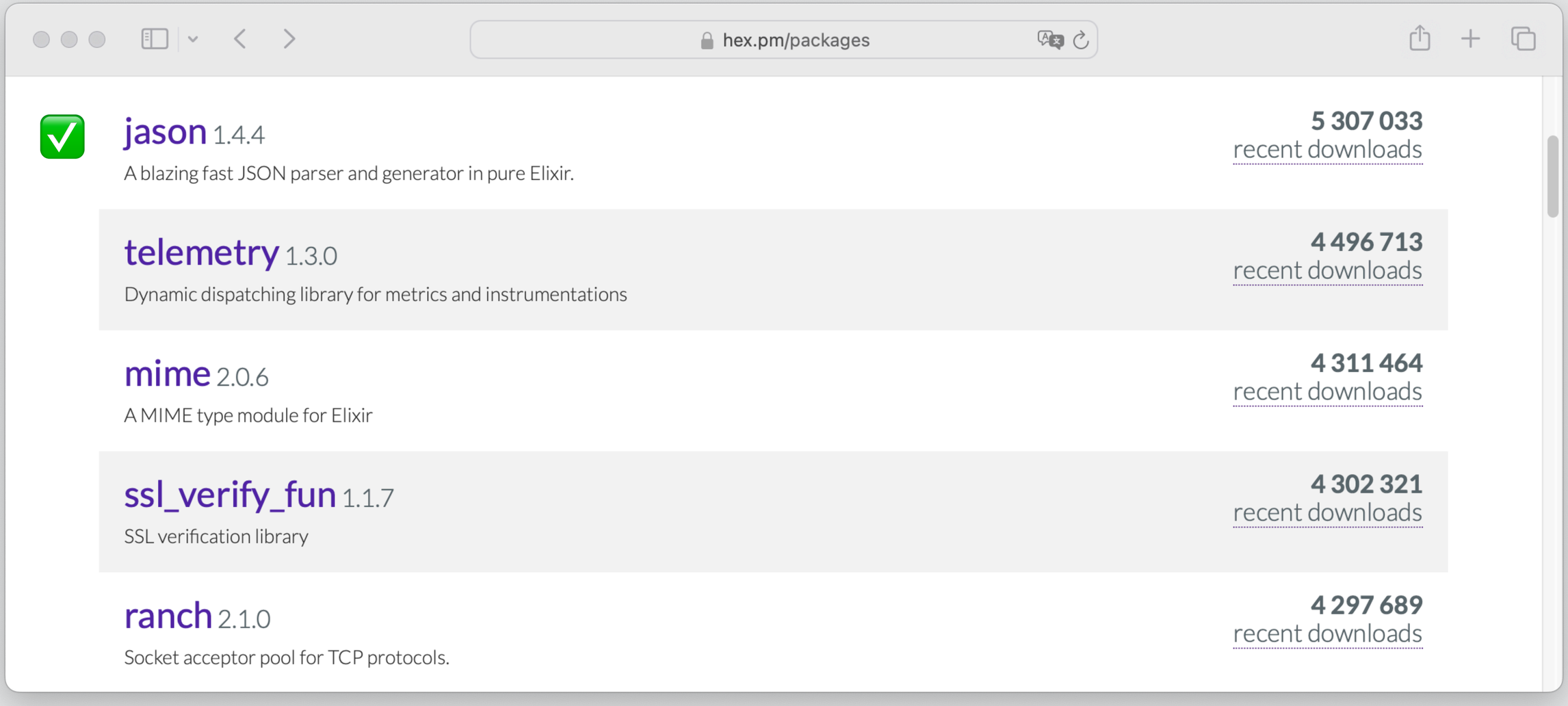
hex.pm/packages
jason 1.4.4
A blazing fast JSON parser and generator in pure Elixir.
5 307 033
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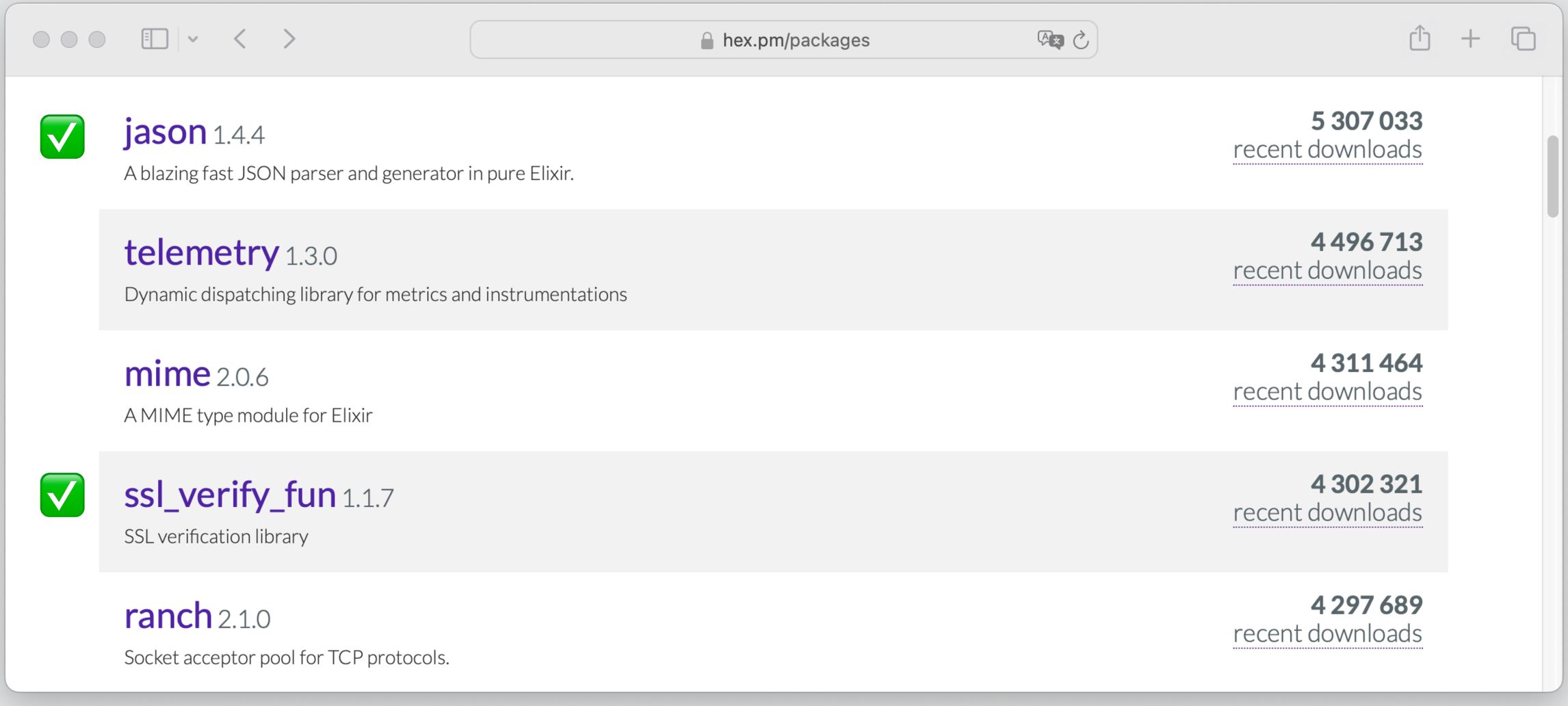
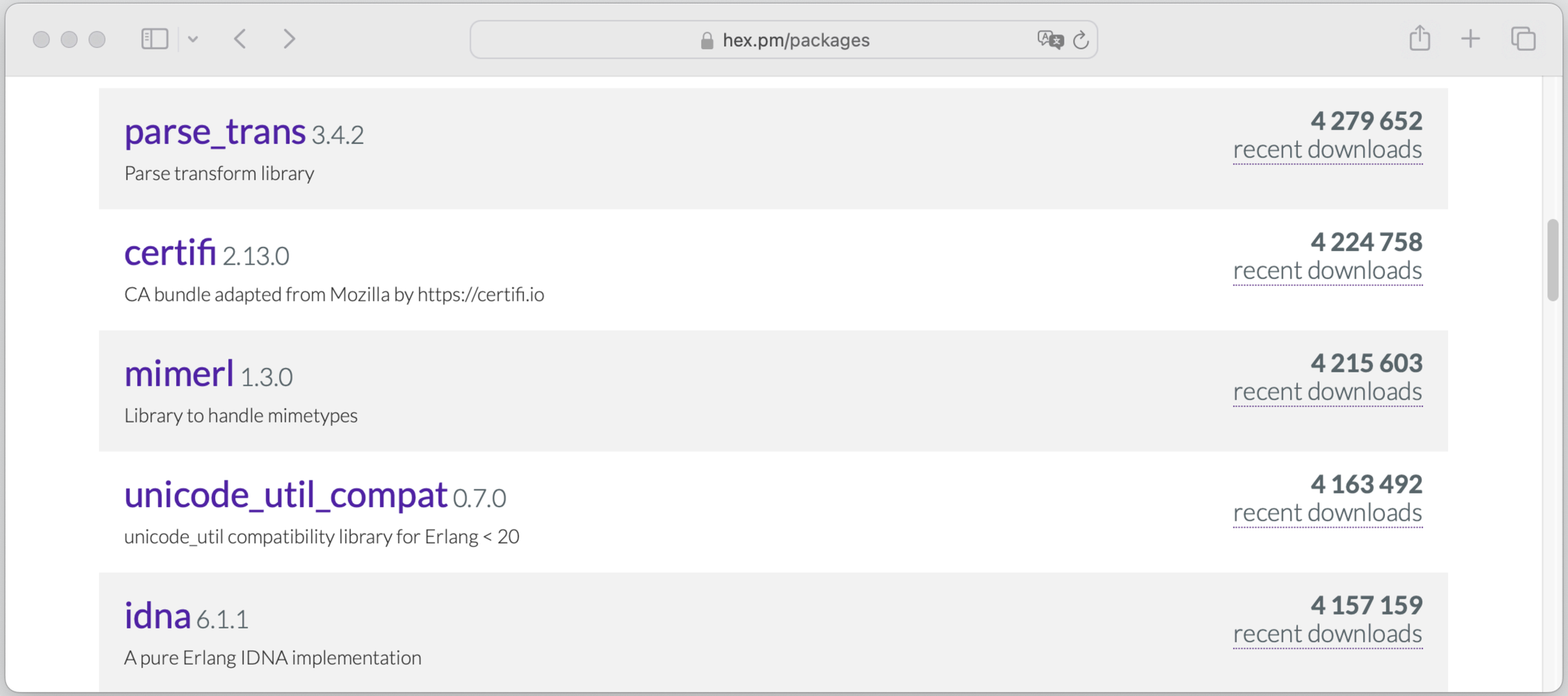
telemetry 1.3.0
Dynamic dispatching library for metrics and instrumentations
4 496 713
recent downloads
mime 2.0.6
A MIME type module for Elixir
4 311 464
recent downloads
ssl_verify_fun 1.1.7
SSL verification library
4 302 321
recent downloads
ranch 2.1.0
Socket acceptor pool for TCP protocols.
4 297 689
recent downloads


hex.pm/packages
jason 1.4.4
A blazing fast JSON parser and generator in pure Elixir.
5 307 033
recent downloads
telemetry 1.3.0
Dynamic dispatching library for metrics and instrumentations
4 496 713
recent downloads
mime 2.0.6
A MIME type module for Elixir
4 311 464
recent downloads
ssl_verify_fun 1.1.7
SSL verification library
4 302 321
recent downloads
ranch 2.1.0
Socket acceptor pool for TCP protocols.
4 297 689
recent downloads


hex.pm/packages
parse_trans 3.4.2
Parse transform library
4 279 652
recent downloads
certifi 2.13.0
CA bundle adapted from Mozilla by https://certifi.io
4 224 758
recent downloads
mimerl 1.3.0
Library to handle mimetypes
4 215 603
recent downloads
unicode_util_compat 0.7.0
unicode_util compatibility library for Erlang < 20
4 163 492
recent downloads
idna 6.1.1
A pure Erlang IDNA implementation
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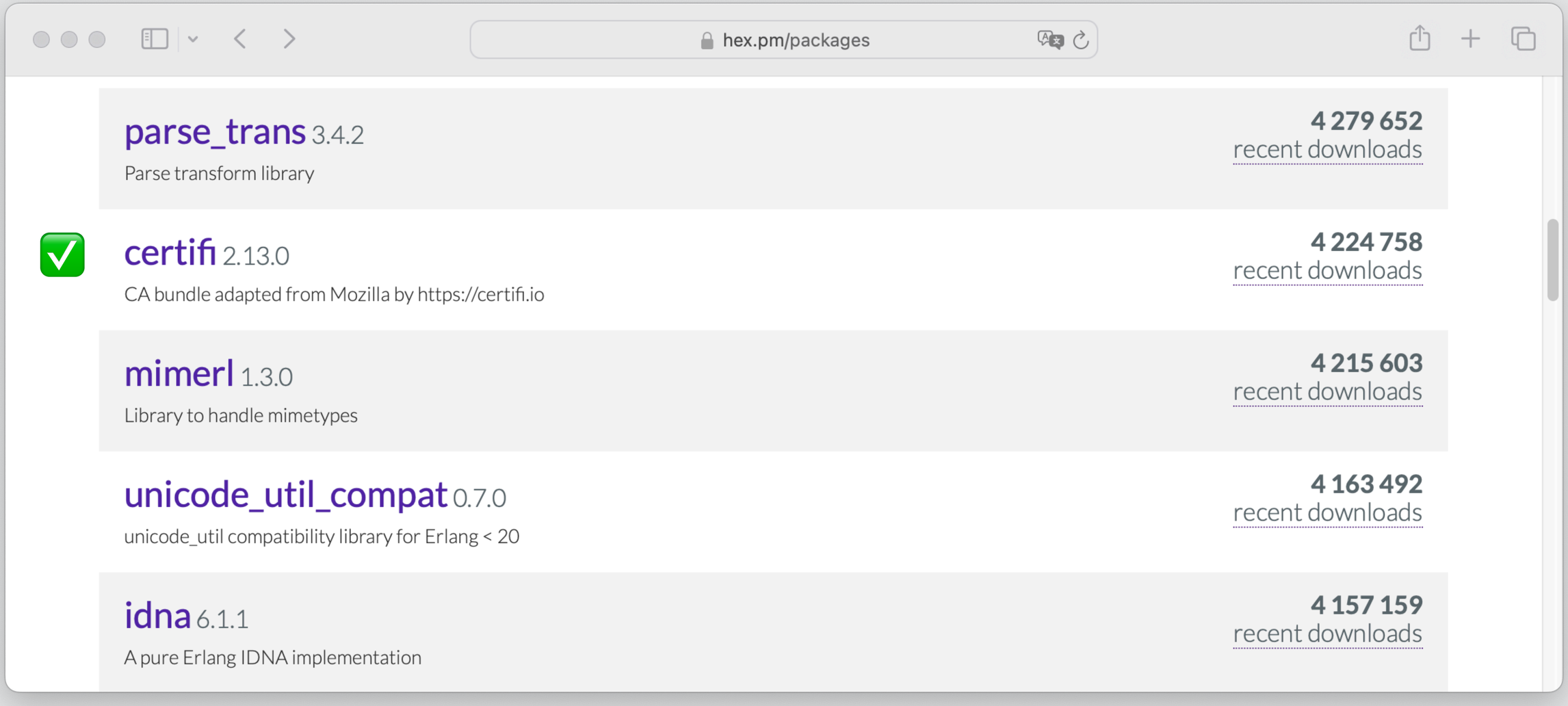
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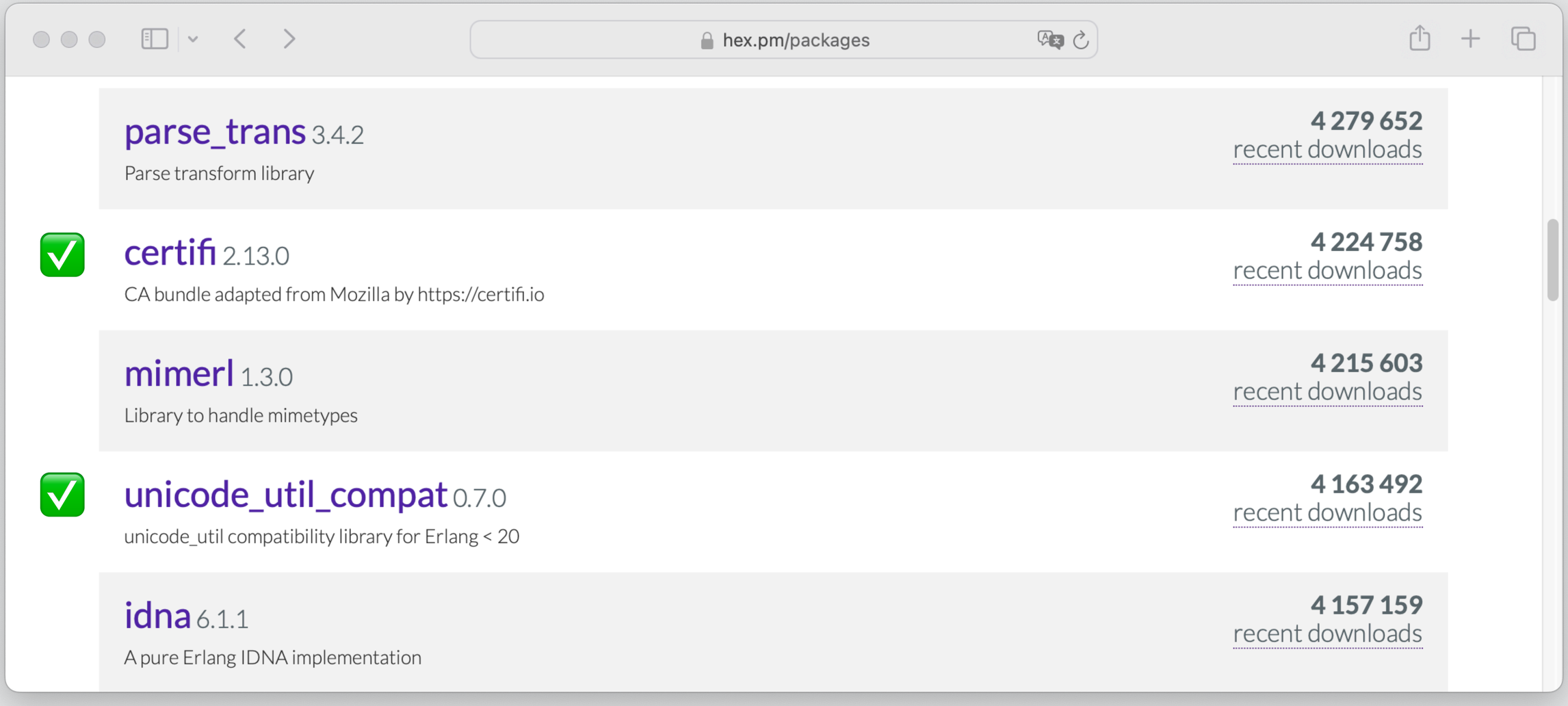
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“Most people overestimate what they can do in one year and underestimate what they can do in ten years.”

–Bill Gates

Thank you!