



Updates from the Elixir team

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plataformatec

tecnologia e engenharia de software

Agenda

- Elixir v1.8
- Elixir v1.9
- What's next?

Versioning

- Elixir follows semantic versioning
- Current release is v1.8.2
- New minor releases every 6 months:
no breaking changes!

Policies

- Erlang/OTP compatibility policy
- Security policy
- Deprecation policy
- <https://hexdocs.pm/elixir/compatibility-and-deprecations.html>

Elixir v1.8
(out right now)

Elixir v1.8

- *January/2019*
- 800+ contributors
- 8 500+ packages on hex.pm
- 500 000 000+ downloads

Derivable structs inspection

Derivable **structs** inspection

```
defmodule User do  
  defstruct [:id, :name, :age, :email, ...]  
end
```

```
%User{name: "josé"}  
%User{} = user
```

Derivable **structs inspection**

```
defmodule User do  
  defstruct [:id, :name, :age, :email, ...]  
end
```

```
%User{id: ..., name: ..., age: ..., email: ...}
```

Derivable structs inspection

```
defmodule User do
  @derive {Inspect, only: [:id, :name]}
  defstruct [:id, :name, :age, :email, ...]
end
```

```
#User<id: ..., name: ..., ...>
```

Time zone database support

Time zone database support

- Since Elixir v1.4 we have:
 - Time
 - Date
 - NaiveDateTime
 - DateTime

Time zone database support

```
defmodule Calendar.TimeZoneDatabase do
  @callback time_zone_period_from_utc_iso_days(iso_days(), time_zone()) ::
    {:ok, tz_period()}
    | {:error, :time_zone_not_found | :utc_only_time_zone_database}

  @callback time_zone_periods_from_wall_datetime(naive_datetime(), time_zone()) ::
    {:ok, tz_period()}
    | {:ambiguous, tz_period(), tz_period()}
    | {:gap, {tz_period(), tz_period_limit()}, {tz_period(), tz_period_limit()}}
    | {:error, :time_zone_not_found | :utc_only_time_zone_database}
end
```

Time zone database support



@lau

- Implemented the behaviour
- Developed the tzdata package
 - Fetches data from IANA
 - Implements tzdb behaviour
 - Provides auto-updates

Elixir v1.9
(out soon)

Releases

Releases

```
$ mix new my_app
```

```
$ cd my_app
```

```
$ mix release
```

```
$ _build/dev/rel/my_app/bin/my_app start
```

Release executable

- Start, restart and stop commands
- Supports RPC commands and a remote console
- Supports one-off commands
- Built-in command to install as a Windows service
- Built-in command to run as a UNIX daemon

Release configuration

- Customizable `vm.args`
- Customizable `env.sh/env.bat`
- Build-time configuration
- Configuration providers
(aka runtime configuration without `REPLACE_OS_VARS`)

Thank you's!

- Erlang/OTP
- Distillery
 - Thanks to Paul Schoenfelder
- Relx
 - Thanks to Tristan Sloughter

Elixir v2.0?

Elixir v1.10
(out eventually)

What's next?

- The backlog is empty
- New versions will continue to come every 6 months
- No plans for a major release
- Leverage improvements in and contribute to Erlang/OTP
- Most exciting developments come from the community



Thank you!

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