Capítulo 8. Herramienta mix

Mix

Crear proyectos

```
C:\Users\ACER\tallerICI\Prog_funcional>mix new calcuuladora

* creating README.md

* creating .formatter.exs

* creating .gitignore

* creating mix.exs

* creating lib

* creating lib/calcuuladora.ex

* creating test

* creating test/test_helper.exs

* creating test/calcuuladora_test.exs

Your Mix project was created successfully.
You can use "mix" to compile it, test it, and more:

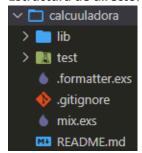
cd calcuuladora

mix test

Run "mix help" for more commands.

C:\Users\ACER\tallerICI\Prog_funcional>
```

Estructura de directorios de un proyecto:



Carga de una aplicación

-Ingresar al directorio donde se creó la nueva aplicación:

```
C:\Users\ACER\tallerICI\Prog_funcional>cd calcuuladora
C:\Users\ACER\tallerICI\Prog_funcional\calcuuladora>[
```

Lanzar el shell de Elixir con mix:

```
C:\Users\ACER\tallerICI\Prog_funcional\calcuuladora>iex -S mix
Compiling 1 file (.ex)
Generated calcuuladora app
Interactive Elixir (1.14.1) - press Ctrl+C to exit (type h() ENTER for help)
iex(1)> [
```

Ejecutar la función hello():

```
iex(1)> Calcuuladora.hello()
:world
iex(2)> [
```

Documentación con ExDoc

- Abrir el archivo mix.exs
- Modificar las dependencias agregando {:ex_doc, "~>0.12"}

```
defp.deps do
..[
...#.{:dep_from_hexpm,."~>.0.3.0"},
....#.{:dep_from_git,.git:."https://github.com/elixir-lang/my_dep.git",.tag:."0.1.0"}
....{:ex_doc,."~>0.12"}
...]
...]
```

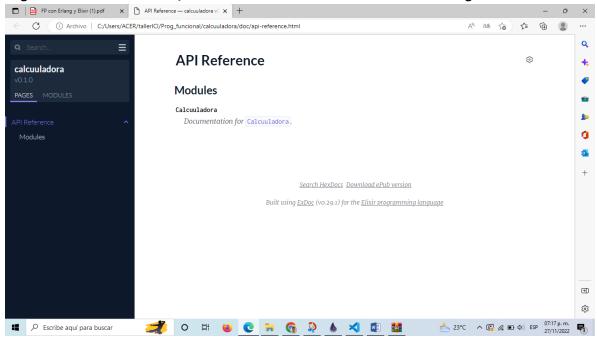
Ejecutar el comando mix deps.get:

```
C:\Users\ACER\tallerICI\Prog_funcional\calcuuladora>mix deps.get
Could not find Hex, which is needed to build dependency :ex_doc Shall I install Hex? (if running non-interactively, use "mix local.hex --force") [Yn] y
* creating c:/Users/ACER/.mix/archives/hex-2.0.0
Resolving Hex dependencies...
Resolution completed in 0.581s
New:
 earmark_parser 1.4.29
  ex_doc 0.29.1
 makeup 1.1.0
 makeup_elixir 0.16.0
 makeup_erlang 0.1.1
nimble_parsec 1.2.3
* Getting ex_doc (Hex package)
* Getting earmark_parser (Hex package)
* Getting makeup_elixir (Hex package)
* Getting makeup_erlang (Hex package)
* Getting makeup (Hex package)
* Getting nimble_parsec (Hex package)
C:\Users\ACER\tallerICI\Prog_funcional\calcuuladorax
```

Ejecutar mix docs:

```
C:\Users\ACER\tallerICI\Prog_funcional\calcuuladora>mix docs
==> earmark_parser
Compiling 1 file (.yrl)
Compiling 2 files (.xrl)
Compiling 3 files (.erl)
Compiling 46 files (.ex)
Generated earmark_parser app
==> nimble_parsec
Compiling 4 files (.ex)
Generated nimble_parsec app
==> makeup
Compiling 44 files (.ex)
Generated makeup app
==> makeup_elixir
Compiling 6 files (.ex)
Compiling lib/makeup/lexers/elixir_lexer/atoms.ex (it's taking more than 10s)
Compiling lib/makeup/lexers/elixir_lexer.ex (it's taking more than 10s)
Compiling lib/makeup/lexers/elixir_lexer/variables.ex (it's taking more than 10s)
Generated makeup_elixir app
==> makeup_erlang
Compiling 3 files (.ex)
warning: Application.get_env/3 is discouraged in the module body, use Application.compile_env/3 instead
  lib/makeup/lexers/erlang_lexer.ex:250: Makeup.Lexers.ErlangLexer
Generated makeup_erlang app
==> ex_doc
Compiling 25 files (.ex)
Generated ex_doc app
==> calcuuladora
Generated calcuuladora app
Generating docs...
View "html" docs at "doc/index.html"
View "epub" docs at "doc/calcuuladora.epub"
C:\Users\ACER\tallerICI\Prog_funcional\calcuuladorax
```

Pegar la ruta del archivo doc/index.html en la barra de direcciones del navegador:



Test:

```
C:\Users\ACER\tallerICI\Prog_funcional\calcuuladora>mix test
==> earmark_parser
Compiling 3 files (.erl)
Compiling 46 files (.ex)
Generated earmark_parser app
==> nimble parsec
Compiling 4 files (.ex)
Generated nimble_parsec app
==> makeup
Compiling 44 files (.ex)
Generated makeup app
==> makeup elixir
Compiling 6 files (.ex)
Compiling lib/makeup/lexers/elixir_lexer/atoms.ex (it's taking more than 10s)
Compiling lib/makeup/lexers/elixir_lexer.ex (it's taking more than 10s)
Compiling lib/makeup/lexers/elixir_lexer/variables.ex (it's taking more than 10s)
Generated makeup elixir app
==> makeup erlang
Compiling 3 files (.ex)
warning: Application.get env/3 is discouraged in the module body, use Application.compile env/3 instead
  lib/makeup/lexers/erlang_lexer.ex:250: Makeup.Lexers.ErlangLexer
Generated makeup_erlang app
==> ex_doc
Compiling 25 files (.ex)
Generated ex doc app
==> calcuuladora
Compiling 1 file (.ex)
Generated calcuuladora app
Finished in 0.07 seconds (0.00s async, 0.07s sync)
1 doctest, 1 test, 0 failures
Randomized with seed 85275
C:\Users\ACER\tallerICI\Prog_funcional\calcuuladorax
```

Doctest

-Se realiza a partir de la documentación de las funciones.

Test

-Se realiza a partir del script del test.