Mix Elixir build tool

CONCEPTS

Mix is task-driven: mix <task> [args]. Run mix help to see every task, including those from deps.

mix.exs deps, aliases
↓ deps.get
mix.lock pinned versions
↓ compile
_build/<env> beams per MIX_ENV
↓ release
Release self-contained

MIX_ENV picks the environment: dev (default), test (used by mix test) or prod. Each gets its own _build directory.

PROJECTS

mix new *<name>*
Create a new project

mix new *<name>* **--sup**
Project with a supervision tree

mix phx.new *<name>*
Phoenix project (needs the phx_new archive)

COMPILE & RUN

mix compile
Compile the project

mix compile --force
Recompile everything

mix compile --warnings-as-errors
Fail when there are warnings

mix run *<file.exs>* **[args]**
Run a script inside the app

iex -S mix
Interactive shell with the project

TEST

mix test
Run the whole suite

TEST (cont.)

mix test *<file>*
Run one test file

mix test *<file>*:*<line>*
Run the test at a line

mix test --failed
Re-run last failures

mix test --only *<tag>*
Run tests with a tag

DEPENDENCIES

mix deps.get
Fetch and lock dependencies

mix deps.update *<dep>*
Update one dependency

Dependency forms in mix.exs

```
{:plug, "~> 1.16"}
{:ex_doc, "~> 0.34", only: :dev,
runtime: false}
{:lib, github: "<user>/<repo>", tag:
"<tag>"}
{:local, path: "../local"}
```

FORMAT & QUALITY

mix format
Format files per .formatter.exs

mix format --check-formatted
Fail if anything is unformatted

RELEASES

MIX_ENV=prod mix release
Build a production release

ENVIRONMENTS & TOOLING

MIX_ENV=*<env>* **mix** *<task>*
Run a task in another env

HELP

mix help
List available tasks

mix help *<task>*
Docs for one task