rebar3 Erlang build tool

CONCEPTS

rebar3 is the Erlang build tool: one rebar.config per project, builds land in _build/<profile>. Run rebar3 help to list tasks, including plugin ones.

rebar.config deps, profiles
↓ compile
rebar.lock pinned deps
↓ build
_build/<profile> beams, deps, rel
↓ release / tar
Release relx, start script

Profiles pick the build variant: default, test (used by eunit and ct) and prod. Select with rebar3 as <profile> <task>.

PROJECTS

rebar3 new app *<name>*
OTP application with supervisor

rebar3 new lib *<name>*
Library without a supervisor

rebar3 new release *<name>*
Umbrella project for releases

BUILD & RUN

rebar3 compile
Fetch deps and compile all apps

rebar3 clean
Remove compiled beams

rebar3 shell
Shell with apps and deps loaded

rebar3 version
Show rebar3 and Erlang versions

TEST

rebar3 eunit
Run all EUnit tests

rebar3 eunit --module=*<mod>*
Tests of one module

rebar3 eunit --test=*<mod>*:*<fun>*
Run one test function

rebar3 ct
Run all Common Test suites

rebar3 ct --suite=*<path>*
Run one suite

TEST (cont.)

rebar3 ct --suite=*<path>* **--case=***<c>*
Run one test case

DEPENDENCIES

rebar3 deps
List deps and lock status

rebar3 tree
Show the dependency tree

rebar3 upgrade
Upgrade all dependencies

rebar3 upgrade *<dep>*
Upgrade one dependency

deps in rebar.config

```
{deps, [
  cowboy,
  {jsx, "~> 3.1"},
  {mylib, {git, "<url>", {tag,
"1.0.0"}}},
  {other, {git, "<url>", {branch,
"main"}}}
]}.
```

List every dependency in the .app.src applications list too, or it will not start with your app.

PROFILES

rebar3 as *<profile> <task>*
Run a task in a profile

profiles in rebar.config

```
{profiles, [
  {test, [{deps, [meck]}]},
  {prod, [{erl_opts, [no_debug_info]}]}
]}.
```

QUALITY

rebar3 dialyzer
Build the PLT and check types

rebar3 xref
Cross-reference check

RELEASES

rebar3 release
Build a dev release

rebar3 as prod tar
Release as a .tar.gz