Cabal Haskell build tool

CONCEPTS

> Commands work on a project: a cabal.project (or just one .cabal file) and the packages it lists. Builds land in dist-newstyle.

PROJECTS

`cabal init --interactive`
Create a package with prompts

BUILD

`cabal build`
Build all default targets

`cabal build <target>`
Build one package or component

`cabal build all`
Build every package in the project

`cabal build -w ghc-<version>`
Use a specific compiler

RUN & REPL

`cabal run`
Run the only executable

`cabal run <exe> -- <args>`
Run an executable with arguments

`cabal repl`
Open GHCi on the default target

TEST & DOCS

`cabal test`
Build and run all test suites

DEPENDENCIES

`cabal update`
Download the latest package index

`cabal freeze`
Write cabal.project.freeze

INSTALL

`cabal install <exe>`
Install an executable from Hackage

PACKAGE FILE

.cabal stanzas

Stanza	Use
`library`	Reusable code; list exposed-modules
`executable <name>`	Program; needs main-is
`test-suite <name>`	Tests; type: exitcode-stdio-1.0
`benchmark <name>`	Benchmarks; same form as tests
`common <name>`	Shared fields, pulled in with import:

Common fields

Field	Meaning
`cabal-version`	Spec version, e.g. 3.0
`build-depends`	Packages with version bounds
`hs-source-dirs`	Where the .hs files live
`default-language`	GHC2021 or Haskell2010
`ghc-options`	Flags such as -Wall
`other-modules`	Internal, not exported modules

.cabal skeleton

```
cabal-version: 3.0
name:          demo
version:       0.1.0.0
build-type:    Simple

common shared
    default-language: GHC2021
    ghc-options:      -Wall
    build-depends:    base <5

library
    import:           shared
    hs-source-dirs:   src
    exposed-modules:  Demo

executable demo
    import:           shared
    hs-source-dirs:   app
    main-is:          Main.hs
    build-depends:    demo
```

CABAL.PROJECT

`packages: .`
List the packages in the project