

Using Cabal and the Hackage Package Database

Hackage

- Hackage is a database of Haskell packages (or modules) written by others and available for public use.
- The home page is
 - <http://hackage.haskell.org/packages/hackage.html>
- Browse what packages are available at:
 - <http://hackage.haskell.org/packages/archive/pkg-list.html>

Cabal

- Cabal is a utility (written in Haskell) that downloads and installs packages from the Hackage database
- Cabal is part of the Haskell Platform so you already have it on your computer

Simple Steps

- Open up a shell window (command window on Windows: start -> run -> command)
- Update your local copy of what packages are in the database
 - Type: `cabal update`
 - This takes a while, the database is big!
- Search for packages that match a search string
 - Type: `cabal list haskore`
- Type: Install the package you want
 - Type `cabal install haskore-vintage`

```
C:\WINDOWS\system32\command.com
Microsoft(R) Windows DOS
(C)Copyright Microsoft Corp 1990-2001.

C:\DOCUME~1\SHEARD>cabal update
Downloading the latest package list from hackage.haskell.org
Note: there is a new version of cabal-install available.
To upgrade, run: cabal install cabal-install

C:\DOCUME~1\SHEARD>Cabal list haskore
* haskore
  Synopsis: The Haskore Computer Music System
  Latest version available: 0.1
  Latest version installed: [ Not installed ]
  Homepage: http://www.haskell.org/haskellwiki/Haskore
  License: GPL

* haskore-realtime
  Synopsis: Routines for realtime playback of Haskore songs
  Latest version available: 0.1
  Latest version installed: [ Not installed ]
  Homepage: http://www.haskell.org/haskellwiki/Haskore/
  License: GPL

* haskore-supercollider
  Synopsis: Haskore back-end for SuperCollider
  Latest version available: 0.1.1
  Latest version installed: [ Not installed ]
  Homepage: http://www.haskell.org/haskellwiki/SuperCollider
  License: GPL

* haskore-synthesizer
  Synopsis: Music rendering coded in Haskell
  Latest version available: 0.0.3
  Latest version installed: [ Not installed ]
  Homepage: http://www.haskell.org/haskellwiki/Synthesizer
  License: GPL

* haskore-vintage
  Synopsis: The February 2000 version of Haskore.
  Latest version available: 0.1
  Latest version installed: 0.1
  Homepage: http://haskell.org/haskore/
  License: BSD3

C:\DOCUME~1\SHEARD>
C:\DOCUME~1\SHEARD>
```

Finding Packages

- If you have no idea of the name of the package you want, then `cabal list` isn't much help.
- Browse the list of packages at the link
 - <http://hackage.haskell.org/packages/archive/pkg-list.html>

Google style searches supported here

HackageDB :: [Package]

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.NET

- ➔ [hs-dotnet](#) library: Pragmatic .NET interop for Haskell

ACME

- ➔ [acme-dont](#) library: A don't construct
- ➔ [acme-now](#) library: An interface to the philosophical and metaphysical "now"
- ➔ [empty](#) library: Ceci n'est pas une package

Find: Next Previous Highlight all Match case Phrase not found

Done Tor Disabled