Sample Missing Package Resolution

In Haskell, if you want to use a new library, you need to download it. The simplest way to do that is the cabal package manager. While it can also be used to create packages of your own, we will only use it to download libraries, which will live hidden but available whenever you run Haskell code.
(The alternative is to manually download the package code from hackage.com, but then you have to carefully merge multiple packages together, which is manual and time consuming.)

Here's a session where I try to load one of our concurrency examples, but the BoundedChan package is missing.

ProducerConsumer.hs:

```
import qualified Control.Concurrent.BoundedChan as BC
```

…
(or could have been: `import Control.Concurrent.BoundedChan`)

```
demo$ ghci ProducerConsumer.hs
Loaded package environment from /Users/mudd/.ghc/aarch64-darwin-9.2.5/environments/default
GHCi, version 9.2.5: https://www.haskell.org/ghc/  :? for help
[1 of 1] Compiling ProducerConsumer ( ProducerConsumer.hs, interpreted )

ProducerConsumer.hs:20:1: error:
    Could not find module ‘Control.Concurrent.BoundedChan’
    Perhaps you meant
      Control.Concurrent.Chan (from base-4.16.4.0)
      Control.Concurrent.STM.TChan (needs flag -package-id stm-2.5.0.2)
    Use -v (or `:set -v` in ghci) to see a list of the files searched for.
   |
20 | import qualified Control.Concurrent.BoundedChan as BC
   | ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
Failed, no modules loaded.
ghci>
Leaving GHCi.
demo$ cabal update
Downloading the latest package list from hackage.haskell.org
Updated package list of hackage.haskell.org to the index-state 2023-04-18T16:47:20Z
To revert to previous state run:
    cabal v2-update 'hackage.haskell.org,2022-12-14T07:09:55Z'
demo$ cabal list boundedchan
* BoundedChan
    Synopsis: Implementation of bounded channels.
    Default available version: 1.0.3.0
    Installed versions: [ Not installed ]
    License:  BSD3

demo$ demo$ cabal install BoundedChan --lib
Resolving dependencies...
Build profile: -w ghc-9.2.5 -O1
In order, the following will be built (use -v for more details):
 - BoundedChan-1.0.3.0 (lib:BoundedChan) (requires download & build)
Downloading  BoundedChan-1.0.3.0
Downloaded   BoundedChan-1.0.3.0
Starting     BoundedChan-1.0.3.0 (all, legacy fallback)
Building     BoundedChan-1.0.3.0 (all, legacy fallback)
Installing   BoundedChan-1.0.3.0 (all, legacy fallback)
Completed    BoundedChan-1.0.3.0 (all, legacy fallback)
demo$ ghci ProducerConsumer.hs
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[1 of 1] Compiling ProducerConsumer ( ProducerConsumer.hs, interpreted )
Ok, one module loaded.
ghci>
```