

Technical Computing for the Earth
Sciences, Lecture 2:

Package Management Debuggers

EARS 80.03

Package management

- [Pkg](#)

```
julia> ] # Press left square bracket to enter pkg mode
pkg> add PackageName # If registered. Note: case sensitive
pkg> add http://github.com/some/Package.jl # If unregistered
pkg> rm PackageName # To delete a package
pkg> gc # To clean up unused packages
```

- To make a new package of your own, try `pkg> generate`
 - See also [PkgTemplates.jl](#)
 - All you really need is a git repo containing a directory `src` with a [module file](#) in it.
- Packages can be “registered” at github.com/JuliaRegistries/General

Debuggers

- [JuliaInterpreter](#)
 - Underlies the built-in debuggers in to Juno¹ and VSCode².
1: <https://docs.junolab.org/latest/man/debugging/> 2: exists but not documented.
 - Can also call directly from repl
- More advanced debugging tools:
 - <https://github.com/JuliaDebug/Cthulhu.jl>
 - other things in <https://github.com/JuliaDebug/>
- The old-fashioned way
 - `println()`. Actually not bad for parallel programs.