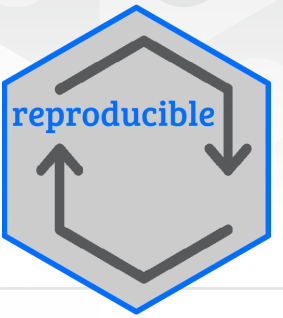# reproducible : : CHEAT SHEET

Working with data

DOWNLOAD, PRE-PROCESS, POST-PROCESS

```
prepInputs()
    1. preprocess(…)
    2. postProcess(…)
        a. cropInputs(…)
        b. projectInputs(…)
        c. maskInputs(…)
        d. writeOutputs(…)
```

- ⬇ download
- 🗎 unzip
- 💾 save file(s)

- 🌐 / ⬚ / ▤ GIS operations
- 💾 save file(s)

Working with file paths

normPath

checkPath

Caching

function() → ⚙ → 🗄 ⇢ ☁ ⇢ result

```
🗄+    Cache(function(), …)

       showCache(…)              🏷 use tags to query
                                    and save items in
🗑      clearCache(…)               cache

🗑⁻¹   keepCache(…)

🗄+🗄  mergeCache(…)
```

Loading packages

Require

installVersions

installedVersions

Useful Elements

CODE
Where possible, use code that works when run.

PACKAGE OPTIONS

```
?reproducibleOptions
```