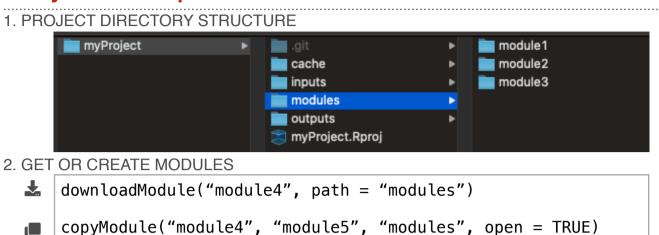
# Simulation modelling in SpaDES: : CHEAT SHEET



### Project setup

3. WORKSPACE SETUP

setPaths(



use relative paths

newModule("module6", path = "modules")

## Running simulations

cachePath = "cache",

inputPath = "inputs",

modulePath = "modules"
outputPath = "outputs"

### Accessing the simList

```
Accessor
globals
                                                     global (i.e., non-module-specific) parameters
params, P
                                                     module-specific parameters
                                                     module input and output objects
inputs, outputs
ls.objects, ls,str, obj
                                                     list objects stored in the simList environment
paths, cachePath, modulePath, inputPath,
                                                     simulation paths
  outputPath, dataPath
times, end, start, time
                                                     simulation times
events, current, completed
                                                     simulation events
modules
                                                     modules in use
packages
                                                     simulation and module package dependencies
depends
                                                     simulation module dependencies (advanced)
envir
                                                     the simList environment (advanced)
```

### Module Examples

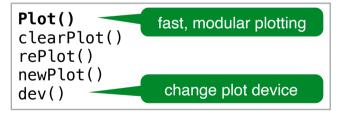
system.file("sampleModules", package = "SpaDES.core")

getOption("spades.modulesRepo")

# Module Development

- 1. METADATA
- 2. DEFINE AND SCHEDULE EVENTS
- scheduleEvent(sim, time(sim) + 10, "module5", "myEvent", .normal())
- scheduleConditionalEvent(sim, ...)
- 3. DEFAULT OBJECTS CREATED IN .input0bjects

#### PLOTTING (WITHIN MODULE)



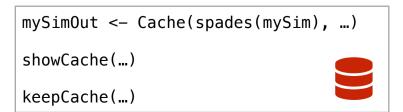
#### PLOTTING (SIMULATION-LEVEL)

moduleDiagram(mySim, ...)

objectDiagram(mySim, ...)

eventDiagram(mySim, ...)

#### Simulation caching



Package options

?SpaDES.core