

Workshop Prerequisites

Alex M Chubaty & Eliot McIntire

September 14, 2016

Install a recent version of R

SpaDES requires R version 3.2.2 or greater.

Download and install the latest version of R from <https://cran.rstudio.com/>

Install the latest RStudio



Figure 1:

Download and install the latest RStudio from <https://www.rstudio.com/products/rstudio/download>

Developer preview versions are available from <https://www.rstudio.com/products/rstudio/download/preview/>

Install SpaDES

Ensure you have updated the packages on your computer, installed the latest development version of the SpaDES package and its dependencies:

```
# First, update your packages
update.packages() # This will ask you y or n for each package.
## If you want all packages updated, try update.packages(ask = FALSE)

install.packages(c("curl", "digest", "influenceR", "devtools",
                  "rstudioapi", "SpaDES"))

devtools::install_github("PredictiveEcology/SpaDES@development")

# check package version
packageVersion("SpaDES") ## should be >= 1.2.0.9009
```

Additional dependencies

Important note: Installing SpaDES will install a number of additional spatial packages, some of which have additional system dependencies not covered by simply installing the R package.

See this post on how to ensure you can install the system dependencies required to install these packages.

Brainstorm your SpaDES needs

- Use a pre-existing module as is? Which one(s)?
- Modify a pre-existing module? Enhance it? Fix bugs?

- Are you going to make a new module?
- Add a new module to a group of other modules (*e.g.*, add fires to vegetation dynamics)?
- Learn some ecological modeling?
- Come with specific problems ...

Data & Model

- Bring any data that you would like to work with
- If you have a conceptual model that you would like to work on, bring it

Create a new RStudio project

1. From the *File* menu, select *New Project...*
2. Select *New Directory*.
3. Select *Empty Project*.
4. Name your project and select where to save it.
5. Don't worry about 'Packrat' and 'Git repositories'. Leave these unchecked.
6. (Optional) You may want to open your project in a new Rstudio session.