February 22, 2018

## R Language & Envronment

* language and environment for statistical computing and graphics.
* software facilities for data manipulation, calculation and graphical display.
* R can be extended (easily) via packages.
* an environment within which statistical techniques are implemented

## Installing ALA4R

In R:

Stable version from CRAN:

install.packages("ALA4R")

Or the development version from GitHub:

install.packages("devtools")  
library(devtools)  
install\_github("AtlasOfLivingAustralia/ALA4R")

server\_config <- list(  
 max\_occurrence\_records = 500000,  
 server\_max\_url\_length = 8150,  
 brand = "ALA4R",  
 notify = "Please use https://github.com/AtlasOfLivingAustralia/ALA4R/issues/ or email to support@ala.org.au<mailto:support@ala.org.au>",  
 support\_email = "support@ala.org.au<mailto:support@ala.org.au>",  
 reasons\_function = "ala\_reasons",  
 fields\_function = "ala\_fields",  
 occurrences\_function = "occurrences",  
 config\_function = "ala\_config",  
 base\_url\_spatial = "https://layers.nbnatlas.org/ws/",  
 base\_url\_bie = "https://species-ws.nbnatlas.org/",  
 base\_url\_biocache = "https://records-ws.nbnatlas.org",  
 base\_url\_images = "https://images.nbnatlas.org",  
 base\_url\_logger = "https://logger.nbnatlas.org/service/logger/",  
 biocache\_version = "1.9",  
 verbose = TRUE,  
 download\_reason\_id = 10,  
 caching="off",  
 cache\_directory = "/home/manash/mydata"  
)  
options(ALA4R\_config = server\_config)

## Resources

* [ALA4R](https://github.com/AtlasOfLivingAustralia/ALA4R)
* [ROpenSci Tutorials](https://ropensci.org/tutorials/)
* [Tidyverse Tutorials](https://www.tidyverse.org/)
* [R for Data Science](http://r4ds.had.co.nz/)
* [R packages](http://r-pkgs.had.co.nz/)
* [Advanced R](http://adv-r.had.co.nz/)
* [RStudio Essentials Webinar](https://www.rstudio.com/resources/webinars/rstudio-essentials-webinar-series-part-1/)
* ["Cheatsheets"](https://www.rstudio.com/resources/cheatsheets/)