

# R & Python

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## Reticulate

```
library(reticulate)
use_python("C:/ProgramData/Anaconda3/python.exe")
# use_python("C:\\ProgramData\\Anaconda3\\python.exe")
# use_python("C:/Users/HP/AppData/Local/r-miniconda/envs/r-reticulate/python.exe")

py_config()

## Warning: Python 'C:/ProgramData/Anaconda3/python.exe' was requested but 'C:/
## Users/HP/AppData/Local/r-miniconda/envs/r-reticulate/python.exe' was loaded
## instead (see reticulate::py_config() for more information)

## python:      C:/Users/HP/AppData/Local/r-miniconda/envs/r-reticulate/python.exe
## libpython:   C:/Users/HP/AppData/Local/r-miniconda/envs/r-reticulate/python36.dll
## pythonhome:  C:/Users/HP/AppData/Local/r-miniconda/envs/r-reticulate
## version:     3.6.10 |Anaconda, Inc.| (default, May  7 2020, 19:46:08) [MSC v.1916 64 bit (AMD64)]
## Architecture: 64bit
## numpy:       C:/Users/HP/AppData/Local/r-miniconda/envs/r-reticulate/Lib/site-packages/numpy
## numpy_version: 1.18.1

os <- import("os")
os$listdir(".")

## [1] ".git"                ".gitignore"
## [3] ".RData"              ".Rhistory"
## [5] ".Rproj.user"         "codigo"
## [7] "curso-algebra-lineal.Rproj" "demostraciones"
## [9] "ejercicios-diapositivas" "ejercicios-videos"
## [11] "examenes"            "prueba2.pdf"
## [13] "prueba2.Rmd"         "prueba_reticulate_y_r.html"
## [15] "prueba_reticulate_y_r.pdf" "prueba_reticulate_y_r.Rmd"
## [17] "README.md"           "teoria"
## [19] "test_octal.m"

np <- import("numpy", convert = FALSE)

x <- np$array(c(1:4))
sum <- x$cumsum()

print(sum)

## [ 1  3  6 10]
```

```
py_to_r(sum)
```

```
## [1] 1 3 6 10
```