

R y Python

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Reticulate

```
library(reticulate)
use_python("C:/Users/LenovoYoga/anaconda3/python.exe")
#py_install("nombre del paquete a instalar")
os <- import("os")
os$listdir(".")

## [1] ".ipynb_checkpoints"   "05-math-python.ipynb" "06-Functions.ipynb"
## [4] "07 io.ipynb"           "2.calculadora.R"      "add.py"
## [7] "install.R"              "Reticulate.html"     "Reticulate.pdf"
## [10] "Reticulate.Rmd"

source_python("add.py")
add(3,4)

## [1] 7

np <- import("numpy", convert = FALSE) # conversion de objetos, false por defecto, indica que no se haran conversiones automaticas

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

print(sum) # resultado deberia dar una lista con corchetes

## array([ 1,  3,  6, 10], dtype=int32)

py_to_r(sum)

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

Ayuda

```
#help(py_to_r)
#py_help(os$chdir)
```

Arrays

```
a <- np_array(c(1:10), order = "C") #
a

## array([ 1,  2,  3,  4,  5,  6,  7,  8,  9, 10])

#import numpy as np
#import pandas as pd

datos <- iris
head(datos)

##   Sepal.Length Sepal.Width Petal.Length Petal.Width Species
## 1          5.1         3.5          1.4         0.2  setosa
## 2          4.9         3.0          1.4         0.2  setosa
## 3          4.7         3.2          1.3         0.2  setosa
## 4          4.6         3.1          1.5         0.2  setosa
## 5          5.0         3.6          1.4         0.2  setosa
## 6          5.4         3.9          1.7         0.4  setosa
```