

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 har
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 nunpy 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
```