R & Phyton

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Reticulate

[1 3 6 10 15 21]

```
library(reticulate)
use_python("/users/ryong/anaconda3/python3.dll")
##py_install("numpy")
##py_install("pandas")
os <- import("os")</pre>
Warning: Python '/users/ryong/anaconda3/python3.dll.exe' was requested but 'C:/
Users/ryong/AppData/Local/r-miniconda/envs/r-reticulate/python.exe' was loaded
instead (see reticulate::py_config() for more information)
os$listdir(".")
 [1] ".gitignore"
                                        "01_Prueba_de_Markdown_PDF.aux"
 [3] "01_Prueba_de_Markdown_PDF.out"
                                        "01_Prueba_de_Markdown_PDF.pdf"
 [5] "01_Prueba_de_Markdown_PDF.Rmd"
                                        "01_Prueba_de_Markdown_PDF.tex"
 [7] "01_Prueba_de_Markdown_PDF_files" "02_Practicas_RMD.pdf"
 [9] "02_Practicas_RMD.Rmd"
                                        "03_Documentacion RMD.Rmd"
[11] "03_Documentacion-RMD.log"
                                        "03_Documentacion-RMD.tex"
[13] "03_RyPython_RETICULATE.html"
                                        "03_RyPython_RETICULATE.pdf"
[15] "03_RyPython_RETICULATE.Rmd"
                                        "sumapy.py"
source_python("/USER/003_CURSOS/PROJECTS/MATEMATICAS/r-basic/scripts/tema14/sumapy.py")
suma(5,7)
## [1] 12
np <- import("numpy", convert = FALSE)</pre>
x <- np$array(c(1:6))</pre>
sum= x$cumsum()
print(sum)
```

```
py_to_r(sum)
## [1] 1 3 6 10 15 21
#arrays
a <- np_array(c(1:6), order="C")</pre>
## [1 2 3 4 5 6]
#convertir datos de r a py
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
                                                  0.4 setosa
                                      1.7
datos_py <- r_to_py(datos)</pre>
import numpy as np
import pandas as pd
r.datos_py.head()
##
      Sepal.Length Sepal.Width Petal.Length Petal.Width Species
## 0
              5.1
                           3.5
                                         1.4
                                                      0.2 setosa
## 1
              4.9
                           3.0
                                         1.4
                                                      0.2 setosa
## 2
              4.7
                           3.2
                                         1.3
                                                     0.2 setosa
## 3
              4.6
                           3.1
                                         1.5
                                                      0.2 setosa
                                                      0.2 setosa
## 4
              5.0
                           3.6
                                         1.4
```