

R & Python

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Vamos a escribir en R y Python

Libreria reticulate

Sirve para compartir codigo entre R y Python

```
library(reticulate)
os = import("os")
os$listdir(".")
```

```
## [1] "add.py"          "R-y-Python.pdf" "R-y-Python.Rmd" "RyPy.html"
## [5] "RyPy.pdf"        "RyPy.Rmd"       "Texto.aux"      "Texto.html"
## [9] "Texto.pdf"       "Texto.Rmd"
```

```
#py_install("nombre del paquete a instalar")
```

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

```
## [1] 7
```

```
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
```

Ayuda

```
py_help(os$chdir)
```

Arrays

```
a = np_array(c(1:10), dtype="float16")  
a
```

```
## [ 1.  2.  3.  4.  5.  6.  7.  8.  9. 10.]
```

Datos

```
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
```

```
datos_py = r_to_py(datos)
```