

## My Reticulate documentation

```
library(reticulate)
use_python("/usr/local/bin/python3")
reticulate::py_config()

## Warning: Python '/usr/local/bin/python3' was requested but '/Users/dermit01/
## Library/r-miniconda/envs/r-reticulate/bin/python' was loaded instead (see
## reticulate::py_config() for more information)

## python:      /Users/dermit01/Library/r-miniconda/envs/r-reticulate/bin/python
## libpython:   /Users/dermit01/Library/r-miniconda/envs/r-reticulate/lib/libpython3.8.dylib
## pythonhome:  /Users/dermit01/Library/r-miniconda/envs/r-reticulate:/Users/dermit01/Library/r-mini
## version:    3.8.5 | packaged by conda-forge | (default, Sep 16 2020, 17:43:11) [Clang 10.0.1 ]
## numpy:      /Users/dermit01/Library/r-miniconda/envs/r-reticulate/lib/python3.8/site-packages/nur
## numpy_version: 1.19.5

# `use_virtualenv()` and `use_condaenv()`
# functions enable specification of versions of Python in virtual or conda environments, fe:
# use_virtualenv("myenv")
```

## Parametric reports (parameters are passed in Reticulate.R file)

```
print(params$text)
```

```
## [1] "Hola!"
```

## Source a file to access a module

```
#reticulate::py_run_file('/Users/dermit01/Documents/python/Chapter_5_Python_R/add.py')
source_python('/Users/dermit01/Documents/python/Chapter_5_Python_R/add.py')
add(5, 10)
```

```
## [1] 15
```

```
# import numpy and specify no automatic Python to R conversion
np <- import("numpy", convert = FALSE)
#plt <- import("matplotlib.pyplot", convert = FALSE)
# do some array manipulations with NumPy
a <- np$array(c(1:4))
sum <- a$cumsum()
# convert to R explicitly at the end
py_to_r(sum)
```

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

```
import pandas as pd
import io
import requests
```

```
url="https://raw.githubusercontent.com/cs109/2014_data/master/countries.csv"
s=requests.get(url).content
df=pd.read_csv(io.StringIO(s.decode('utf-8')))
print(df.head(3))
```

```
##   Country Region
## 0  Algeria AFRICA
## 1  Angola  AFRICA
## 2   Benin  AFRICA
```

```
#Access the python environment with py$
```

```
library(ggplot2)
ggplot(py$df, aes(x=Region))+
  geom_bar()
```

