

Python Pandas

- `pip3 install pandas`

- soporte para excel:

```
pip3.9 install openpyxl # needed to load Excel .xlsx files
pip3.9 install xlrd # needed to load Excel old .xls files)
```

- Estilos: https://docs.bokeh.org/en/latest/docs/user_guide/styling/plots.html#ug-styling-plots

pandas + bokeh ejemplos

```
# segundo bokeh plot con pandas
from bokeh.plotting import figure
from bokeh.io import output_file, show
import pandas

df=pandas.read_csv("https://pythonizing.github.io/data/bachelors.csv")

x=df["Year"]
y=df["Engineering"]

output_file("Line.html")

f=figure()
f.line(x,y)

show(f)
```

```
import pandas

from bokeh.plotting import figure, output_file, show

df=pandas.read_excel("https://github.com/pythonizing/data/blob/master/verlegenhuken.xlsx",sheet_name=0)
df["Temperature"]=df["Temperature"]/10
df["Pressure"]=df["Pressure"]/10

p=figure(width=500,height=400,tools='pan')

p.title.text="Temperature and Air Pressure"
p.title.text_color="Gray"
p.title.text_font="arial"
p.title.text_font_style="bold"
p.xaxis.minor_tick_line_color=None
p.yaxis.minor_tick_line_color=None
p.xaxis.axis_label="Temperature (°C)"
p.yaxis.axis_label="Pressure (hPa)"

# old versions:
# p.circle(df["Temperature"],df["Pressure"],size=0.5)
```

```
p.scatter(x=df["Temperature"],y=df["Pressure"],size=0.5)
output_file("Weather.html")
show(p)
```

- desde Jupyter Notebook problema leyendo fichero desde URL

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