

HENRY PI1

Reporte

```
In [1]: # Detectar modulos locales
import sys
sys.path.append('../')
```

Nota: \ Voy a dejar el link de github para cada funcion que cree para resolver los ejercicios \

Recomendacion: \ Para entender que hace cada funcion o clase, me tome el trabajo de documentalas todas**

con el siguiente metodo aplicado a las funciones se podran leer o su editor de codigo ya vendra incluido con esta caracteristica

```
In [2]: from src.docs import test_docs
print(test_docs.__doc__)

Documentacion.
Esto es una prueba, intenta con otras funciones

>>> func().__doc__
```

En la realizacion del proyecto se utilizo la siguiente API

[estadisticasbcra](#)

\ Para llamar a esta y traerme todos los datos, cree un objeto llamado API() que interactua de forma asincronica \ [link del codigo](#)

```
In [2]: from src.api import API
from src.dtypes import Endpoints

points: list[Endpoints] = [
    "usd",
    "usd_of",
    "var_usd_vs_usd_of",
    "inflacion_mensual_oficial",
    "var_usd_anual",
    "var_usd_of_anual",
    "milestones",
]

api = API()
test = api.jupyter_query(*points)
```

```
In [3]: test
```

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{'d': '2008-04-25', 'e': 'Carlos Fernández', 't': 'econ'},
{'d': '2009-07-08', 'e': 'Amado Boudou', 't': 'econ'},
{'d': '2010-02-03', 'e': 'Mercedes Marcó Del Pont', 't': 'bcra'},
{'d': '2011-12-10', 'e': 'Hernán Lorenzino', 't': 'econ'},
{'d': '2011-12-10', 'e': 'Cristina Fernández de Kirchner', 't': 'pres'},
{'d': '2012-08-13', 'e': 'Cepo al Dolar', 't': 'misc'},
{'d': '2013-11-18', 'e': 'Juan Carlos Fábrega', 't': 'bcra'},
{'d': '2013-11-18', 'e': 'Axel Kicillof', 't': 'econ'},
{'d': '2014-10-01', 'e': 'Alejandro Vanoli', 't': 'bcra'},
{'d': '2015-12-10', 'e': 'Federico Sturzenegger', 't': 'bcra'},
{'d': '2015-12-10', 'e': 'Alfonso Prat-Gay', 't': 'fina'},
{'d': '2015-12-10', 'e': 'Mauricio Macri', 't': 'pres'},
{'d': '2015-12-17', 'e': 'Levantamiento del Cepo al Dolar', 't': 'misc'},
{'d': '2017-01-10', 'e': 'Luis Caputo', 't': 'fina'},
{'d': '2017-01-10', 'e': 'Nicolas Dujovne', 't': 'trea'},
{'d': '2018-06-14', 'e': 'Luis Caputo', 't': 'bcra'},
{'d': '2018-09-25', 'e': 'Guido Sandleris', 't': 'bcra'},
{'d': '2019-07-01', 'e': 'Hernán Lacunza', 't': 'trea'},
{'d': '2019-09-01', 'e': 'Cepo al Dollar', 't': 'misc'},
{'d': '2019-12-10', 'e': 'Miguel Ángel Pesce', 't': 'bcra'},
{'d': '2019-12-10', 'e': 'Martín Guzmán', 't': 'econ'},
{'d': '2019-12-10', 'e': 'Alberto Fernández', 't': 'pres'},
{'d': '2022-07-04', 'e': 'Silvina Batakis', 't': 'econ'},
{'d': '2022-07-28', 'e': 'Sergio Massa', 't': 'econ']}]
```

Para hacer un manejo de los dataframes mas comodo hice una clase con attrdict\ [link del codigo](#)

```
In [4]: from src.dataclass import Data

data = Data()
data.call_api(*points, jupyter=True)
```

```

Out[4]: {'usd':          date          v
0      2000-05-24      1.0005
1      2000-05-25      1.0005
2      2000-05-26      1.0004
3      2000-05-29      1.0007
4      2000-05-30      1.0009
...
5562  2022-07-29     296.0000
5563  2022-08-01     282.0000
5564  2022-08-02     291.0000
5565  2022-08-03     298.0000
5566  2022-08-04     291.0000

[5567 rows x 2 columns],
'usd_of':          date          v
0      2002-03-04      2.01
1      2002-03-05      1.99
2      2002-03-06      2.05
3      2002-03-07      2.14
4      2002-03-08      2.20
...
5011  2022-07-29     131.23
5012  2022-08-01     131.94
5013  2022-08-02     132.18
5014  2022-08-03     132.41
5015  2022-08-04     132.64

[5016 rows x 2 columns],
'var_usd_vs_usd_of':          date          v
0      2002-03-04      5.4726
1      2002-03-05      6.5327
2      2002-03-06      4.3902
3      2002-03-07      3.7383
4      2002-03-08      3.1818
...
5005  2022-07-29     125.5582
5006  2022-08-01     113.7335
5007  2022-08-02     120.1543
5008  2022-08-03     125.0585
5009  2022-08-04     119.3908

[5010 rows x 2 columns],
'inflacion_mensual_oficial':          date          v
0      1990-01-31      79.2
1      1990-02-28      61.6
2      1990-03-31      95.5
3      1990-04-30      11.4
4      1990-05-31      13.6
..
385  2022-02-28      4.7
386  2022-03-31      6.7
387  2022-04-30      6.0
388  2022-05-31      5.1
389  2022-06-30      5.3

[390 rows x 2 columns],
'var_usd_anual':          date          v
0      2000-05-24     -0.1299
1      2000-05-25     -0.1299

```

```

3      2000-05-29  -0.0899
4      2000-05-30  -0.0899
...
5372  2022-02-07  41.7219
5373  2022-02-08  42.3841
5374  2022-02-09  42.7632
5375  2022-02-10  42.7152
5376  2022-02-11  44.6309

```

```

[5377 rows x 2 columns],
'var_usd_of_anual':
0      2002-03-04  59.2040
1      2002-03-05  59.2965
2      2002-03-06  55.1220
3      2002-03-07  48.1308
4      2002-03-08  43.1818
...
4821  2022-02-07  20.1000
4822  2022-02-08  19.9955
4823  2022-02-09  19.9705
4824  2022-02-10  19.9751
4825  2022-02-11  19.9661

```

```

[4826 rows x 2 columns],
'milestones':
0      1991-02-05      Roque Fernández  bcra
1      1991-04-01      Domingo Cavallo  econ
2      1995-08-08      Carlos Saúl Menem  pres
3      1996-08-05      Pedro Pou  bcra
4      1996-08-06      Roque Fernández  econ
5      1999-12-10      José Luis Machinea  econ
6      1999-12-10      Fernando De la Rúa  pres
7      2001-03-05      Ricardo López Murphy  econ
8      2001-03-20      Domingo Cavallo  econ
9      2001-04-25      Roque Maccarone  bcra
10     2001-12-03      Corralito  misc
11     2001-12-21      Jorge Capitanich  econ
12     2001-12-21      Ramón Puerta  pres
13     2001-12-23      Rodolfo Frigeri  fina
14     2001-12-23      Adolfo Rodríguez Saá  pres
15     2002-01-02      Eduardo Duhalde  pres
16     2002-01-03      Jorge Remes Lenicov  econ
17     2002-01-06      Fin de la Convertibilidad  misc
18     2002-01-21      Mario Blejer  bcra
19     2002-04-27      Roberto Lavagna  econ
20     2002-07-01      Aldo Pignanelli  bcra
21     2002-12-02      Fin del Corralito  misc
22     2002-12-11      Alfonso Prat-Gay  bcra
23     2002-12-11      Alfonso Prat-Gay  bcra
24     2003-05-25      Néstor Kirchner  pres
25     2004-09-24      Hernán Martín Pérez Redrado  bcra
26     2005-11-28      Felisa Miceli  econ
27     2007-01-16      Intervención del INDEC  misc
28     2007-07-17      Miguel Peirano  econ
29     2007-12-10      Martín Lousteau  econ
30     2007-12-10      Cristina Fernández de Kirchner  pres
31     2008-04-25      Carlos Fernández  econ
32     2009-07-08      Amado Boudou  econ
33     2010-02-03      Mercedes Marcó Del Pont  bcra
                                Hernán Lorenzino  econ

```

```

35 2011-12-10    Cristina Fernández de Kirchner pres
36 2012-08-13                                Cepo al Dolar misc
37 2013-11-18                                Juan Carlos Fábrega bcra
38 2013-11-18                                Axel Kicillof econ
39 2014-10-01                                Alejandro Vanoli bcra
40 2015-12-10                                Federico Sturzenegger bcra
41 2015-12-10                                Alfonso Prat-Gay fina
42 2015-12-10                                Mauricio Macri pres
43 2015-12-17 Levantamiento del Cepo al Dolar misc
44 2017-01-10                                Luis Caputo fina
45 2017-01-10                                Nicolas Dujoyne trea
46 2018-06-14                                Luis Caputo bcra
47 2018-09-25                                Guido Sandleris bcra
48 2019-07-01                                Hernán Lacunza trea
49 2019-09-01                                Cepo al Dollar misc
50 2019-12-10                                Miguel Ángel Pesce bcra
51 2019-12-10                                Martín Guzmán econ
52 2019-12-10                                Alberto Fernández pres
53 2022-07-04                                Silvina Batakis econ
54 2022-07-28                                Sergio Massa econ}

```

In [7]: `data.usd.head(1)` # Ahora puedo llamar a los dataframes de tal manera

Out[7]:

	date	v
0	2000-05-24	1.0005

Consignas

a) Día con mayor variación en la brecha del ultimo año

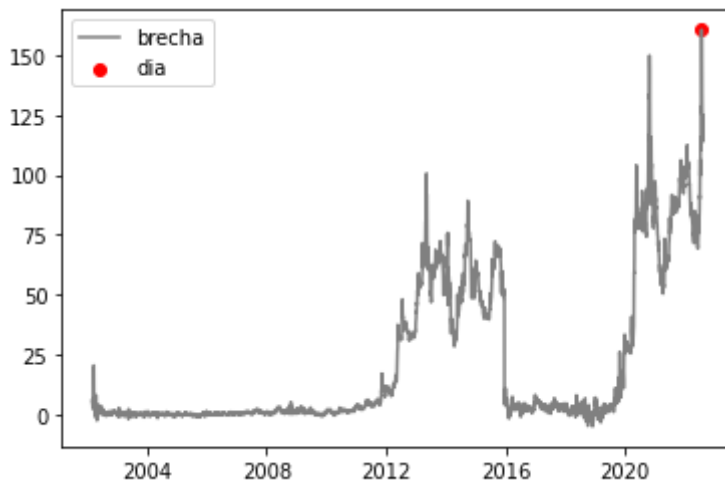
[link del codigo](#)

In [11]: `from src.consignas import a`
`a(data.var_usd_vs_usd_of)`

Out[11]: '2022-07-22'

In [204... `import matplotlib.pyplot as plt`
`import pandas as pd`
`var_data = data.var_usd_vs_usd_of.copy()`
`X_date = pd.to_datetime(a(var_data))`
`plt.plot(var_data.date, var_data.v, color='grey')`
`plt.scatter(X_date, var_data.loc[X_date == var_data.date, 'v'], color='red')`
`plt.legend(['brecha', 'dia'])`

Out[204]: <matplotlib.legend.Legend at 0x7ff45f6c13c0>



b) Retorna los 5 días con mayor volatilidad del ultimo año

[link del codigo](#) \\ **Dolar Blue**

```
In [21]: from src.consignas import b
b(data.usd, 'v')
```

```
Out[21]:
```

	date	volatility
0	2022-07-04	0.084218
1	2022-07-21	0.061181
2	2022-07-08	0.060396
3	2022-07-29	0.059034
4	2022-07-20	0.051792

Dolar Oficial

```
In [22]: b(data.usd_of, 'v')
```

```
Out[22]:
```

	date	volatility
0	2022-04-18	0.006620
1	2022-06-21	0.006407
2	2022-08-01	0.005396
3	2022-07-18	0.005211
4	2022-07-25	0.004920

c) Semana con mayor variación en la brecha del ultimo año

[link de codigo](#)

```
In [26]: from src.consignas import c
```

Loading [MathJax]/jax/output/CommonHTML/fonts/TeX/fontdata.js


```
max_var_week = """
Desde %s hasta %s
con una variacion de %.2f%%
""" % c(data.var_usd_vs_usd_of)

print(max_var_week)
```

Desde 2022-07-18 hasta 2022-07-22
con una variacion de 34.72%

```
In [206]: # Filtro por 'mayor a 2021' para visualizar mejor este pico
cut_data = data.var_usd_vs_usd_of.date.dt.year > 2021
max_week = c(data.var_usd_vs_usd_of[cut_data])

X_week = data.var_usd_vs_usd_of[cut_data].date
y_week = data.var_usd_vs_usd_of[cut_data].v

mask = (data.var_usd_vs_usd_of.date >= max_week[0]) & (data.var_usd_vs_usd_of.c

plt.plot(X_week, y_week, color='grey')
plt.plot(data.var_usd_vs_usd_of[mask].date, data.var_usd_vs_usd_of[mask].v, col
plt.legend(['brecha', 'semana'])
```

Out[206]: <matplotlib.legend.Legend at 0x7ff45f596380>



d) Día de la semana donde hay mayor variación en la brecha del ultimo año

[link de codigo](#)

```
In [74]: from src.consignas import d
d(data.var_usd_vs_usd_of)
```

Out[74]:

v	
date	
Miercoles	93.742204
Jueves	93.615828

v

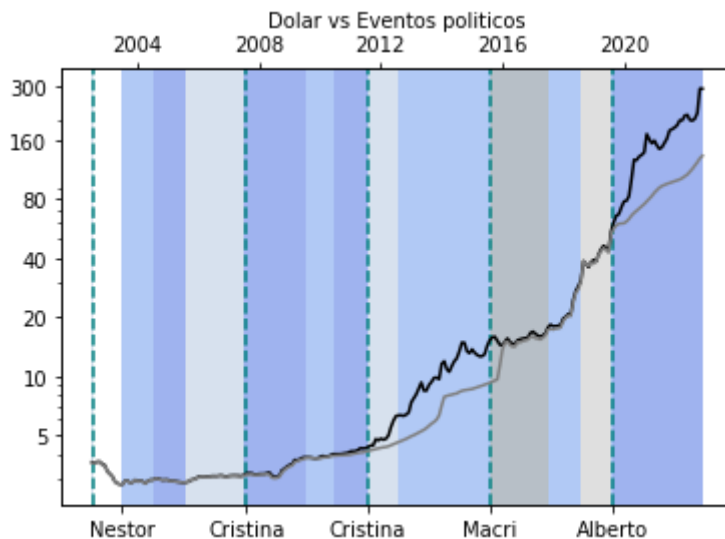
date	
Martes	92.120416
Lunes	91.474823

e) Con la info histórica del valor del dólar y del blue, realizar un análisis exploratorio. Cruzar la data con sucesos importantes a nivel político-económico y graficar mes a mes.

[link de codigo](#)

[link de grafico](#)

```
In [208... from src.event_dolar import dolar_events_plot  
  
dolar_events_plot(data, True)  
plt.clf()
```



<Figure size 432x288 with 0 Axes>

Tuve problemas para definir el "legend" pero el grafico se explica de la siguiente manera:

- Azul = Cambio de ministro de economia
- Celeste = Cambio de presidente del banco central
- Celeste-gris = Medidas economicas
- gris = Ministro de finanzas
- gris-claro = ministro de hacienda
- Lineas punteadas = cambio de presidente

Observaciones

Este analisis es objetivo, sin ideologia.

Gracias a este grafico se puede sacar mucha data. Pero creo que la mas importante es como se comporta la brecha entre dolares en los distintos gobiernos. Por ejemplo podemos ver que los gobiernos peronistas tienden a agrandar esa brecha. Es muy impresionante ver como cuando el precio "llega" a la linea punteada de, por ejemplo, Cristina o Alberto la brecha se dispara. Otra observacion que no podemos dejar pasar es como al cambiar de ministros, el precio tiende a variar o estancarse. Mira, cuando asume Nestor el dolar estaba al alza, hasta que cambia el ministro de economia y retrocede bastante. Tambien podemos ver el comienzo del ciclo de alta variacion (brecha), cuando asume el ministro de economia justo antes de que asuma cristina

Conclusiones

- El evento que mas afecta al precio es el nombramiento de nuevos presidentes. Ya que no solo sube o baja, sino que hasta crece la variacion entre los dolares
- El segundo evento mas importante son los ministros de economia, logrando retrocesos e impulsos en los precios
- Podemos decir que los precios si cuentan con una correlacion con los eventos, Pero esta solo es momentánea.

f) Implementar una regresión lineal (una para cada tipo de dólar) para predecir el valor del dólar a 3, 6 y 12 meses:

[link de codigo](#)

In [130...

```
from src.regression import regression

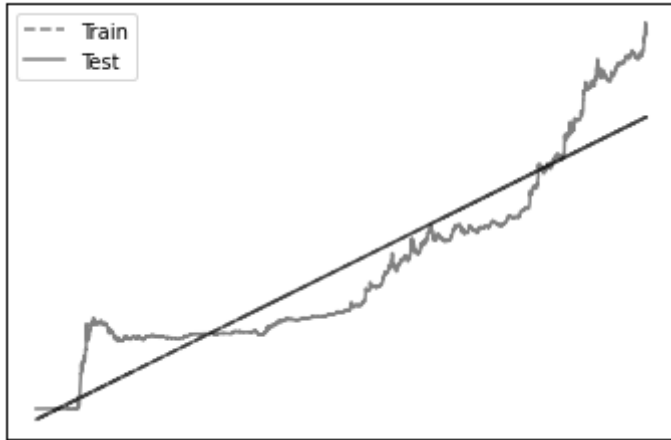
# Regresion sobre el dolar blue
out_reg_blue: str = regression(
    data.usd, 3, verbose=True, plot=True
)
out_reg_blue += "\n" + regression(data.usd, 6)
out_reg_blue += "\n" + regression(data.usd, 12)
plt.clf()

# Regresion sobre el dolar oficial
out_reg_of: str = regression(
    data.usd_of, 3, verbose=True, plot=True
)
out_reg_of += "\n" + regression(data.usd_of, 6)
out_reg_of += "\n" + regression(data.usd_of, 12)
plt.clf()

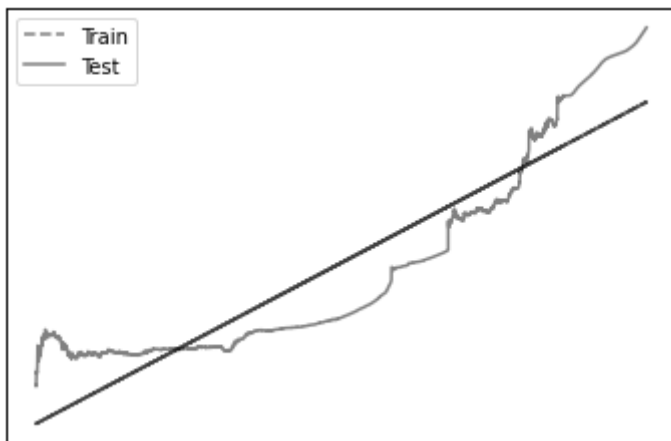
print(f"""
Dolar Blue
-----
{out_reg_blue}

Dolar Oficial
```

```
{out_reg_of}
""" )
```



<Figure size 432x288 with 0 Axes>



Dolar Blue

Error en Train: 0.26

Error en Test: 0.26

Score test: 0.86

Score train: 0.87

Prediccion a 3 meses: 85.95

Prediccion a 6 meses: 90.52

Prediccion a 12 meses: 100.23

Dolar Oficial

Error en Train: 0.23

Error en Test: 0.23

Score test: 0.84

Score train: 0.83

Prediccion a 3 meses: 58.18

Prediccion a 6 meses: 60.95

Prediccion a 12 meses: 66.78

<Figure size 432x288 with 0 Axes>

Vemos que estos valores estan bastante Optimistas a pesar de que el dolar sube a pasos

bestiales

Esto se debe a que el precio del dolar cada ves que se hace mas alto, menos le cuesta variar o aumentar\ (no es lo mismo 20 pesos de subida en un dolar que vale 40. (50%), que 20 pesos de subida en un dolar que vale 200. (10%))\ Se va tornando exponencial, por eso use [logaritmo natural](#)\ Y Tambien ese es el motivo por el cual una regresion lineal arroja un mal resultado

h) Mejor momento para comprar dólar oficial y venderlo a dólar blue

\ Como vimos en el punto e, nos conviene comprar al oficial y vender al blue en un gobierno peronista. Para ser mas claros, cuando existe una expansion de la brecha entre los tipos de cambio. Grafiquemos!

```
In [209... import matplotlib
import numpy as np

usd_h = data.usd.copy()[data.usd.date.dt.year > 2007]
usdof_h = data.usd_of.copy()[data.usd_of.date.dt.year > 2007]

var_h = data.var_usd_vs_usd_of.copy()[data.var_usd_vs_usd_of.date.dt.year > 2007]

var_price = (
    pd.merge(
        pd.merge(usd_h, usdof_h, on='date'), var_h, on='date'
    )
).rename(columns={'v_x': 'blue', 'v_y': 'oficial', 'v': 'brecha'})

price_result = var_price[var_price.brecha > 20]

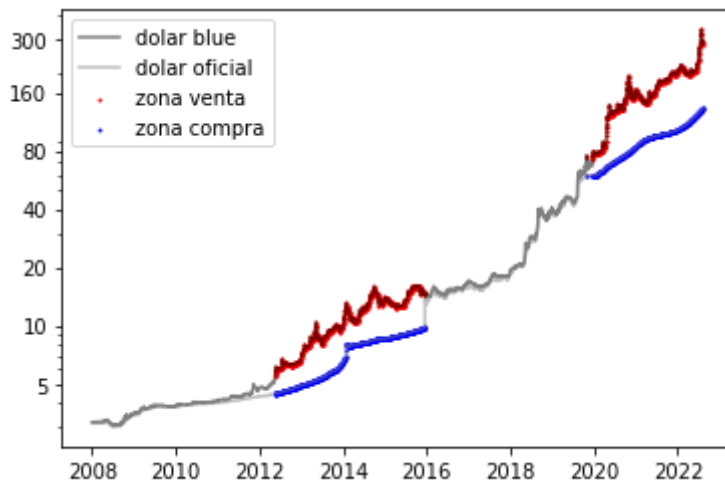
#plt.plot(var_h.date, var_h.v)

_, ax = plt.subplots()

ax.plot(var_price.date, var_price.blue, color='black', alpha=0.5)
ax.plot(var_price.date, var_price.oficial, color='grey', alpha=0.5)
ax.scatter(price_result.date, price_result.blue, s=1, color='red')
ax.scatter(price_result.date, price_result.oficial, s=1, color='blue')

ax.set_yscale('log')
ax.set_yticks([5, 10, 20, 40, 80, 160, 300])
ax.get_yaxis().set_major_formatter(matplotlib.ticker.ScalarFormatter())
ax.legend(['dolar blue', 'dolar oficial', 'zona venta', 'zona compra'])
```

Out[209]: <matplotlib.legend.Legend at 0x7ff45f2def50>



Estos son buenos precios de compra (azul) y venta (rojo) Las zonas fueron determinadas por la brecha, este sistema toma como validas opciones de compra y venta cuando la variacion entre los activos supera el 20%

Author: [Nicolas Palermo](#)

Nota: Deje el ejercicio opcional sin resolver. Pienso hacerlo con un modelo de deep learning