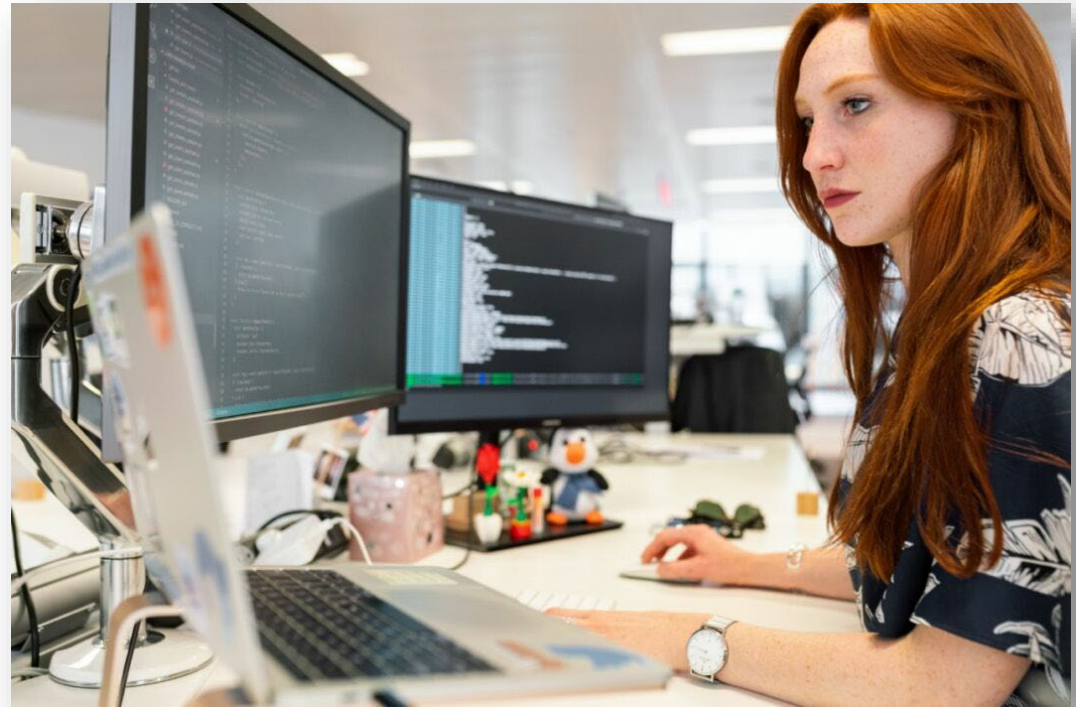




Źródła danych dla inżyniera

Narzędzia programistyczne





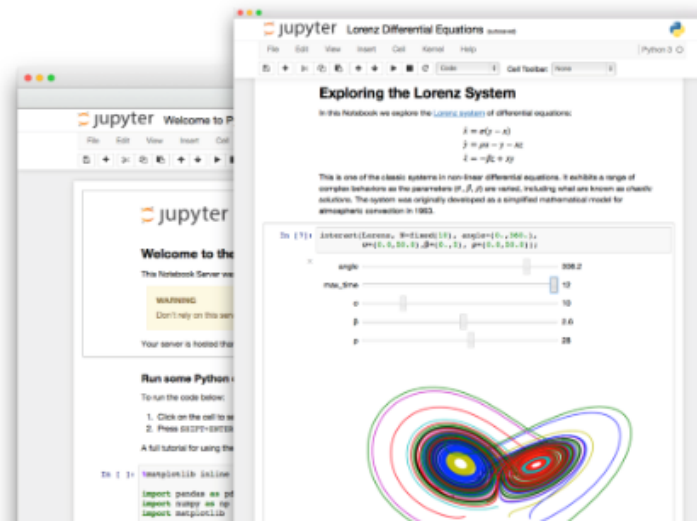
<https://www.anaconda.com/>



<https://colab.research.google.com/>

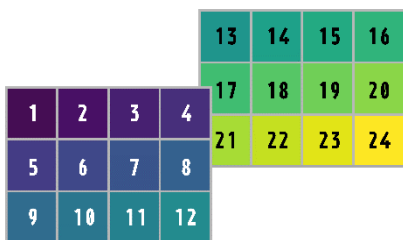
Jupyter Notebook

The Jupyter Notebook is a web-based interactive computing platform that allows users to author data- and code-driven narratives that combine live code, equations, narrative text, visualizations, interactive dashboards and other media.



<https://www.jetbrains.com/dataspell/>

NumPy

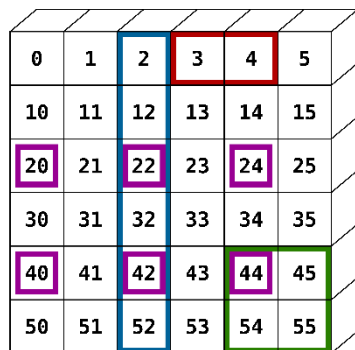


```
>>> a[0, 3:5]
array([3, 4])

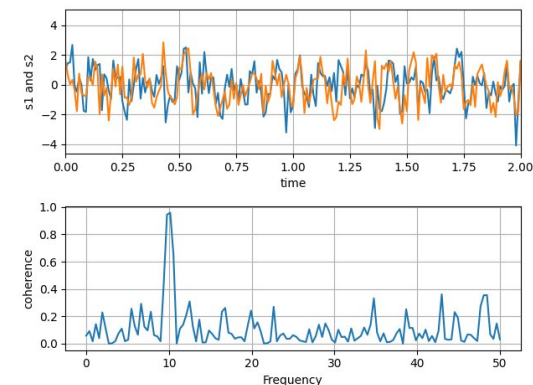
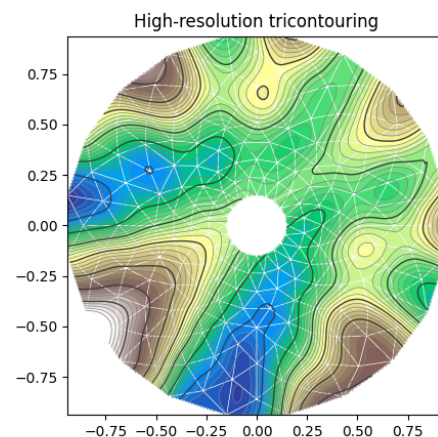
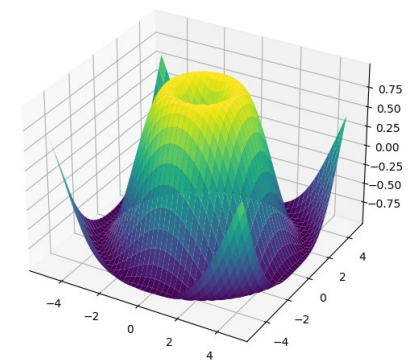
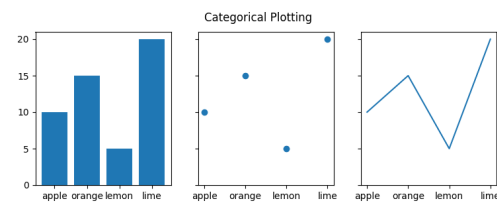
>>> a[4:, 4:]
array([[44, 55],
       [54, 55]])

>>> a[:, 2]
a([2, 12, 22, 32, 42, 52])

>>> a[2::2, ::2]
array([[20, 22, 24],
       [40, 42, 44]])
```

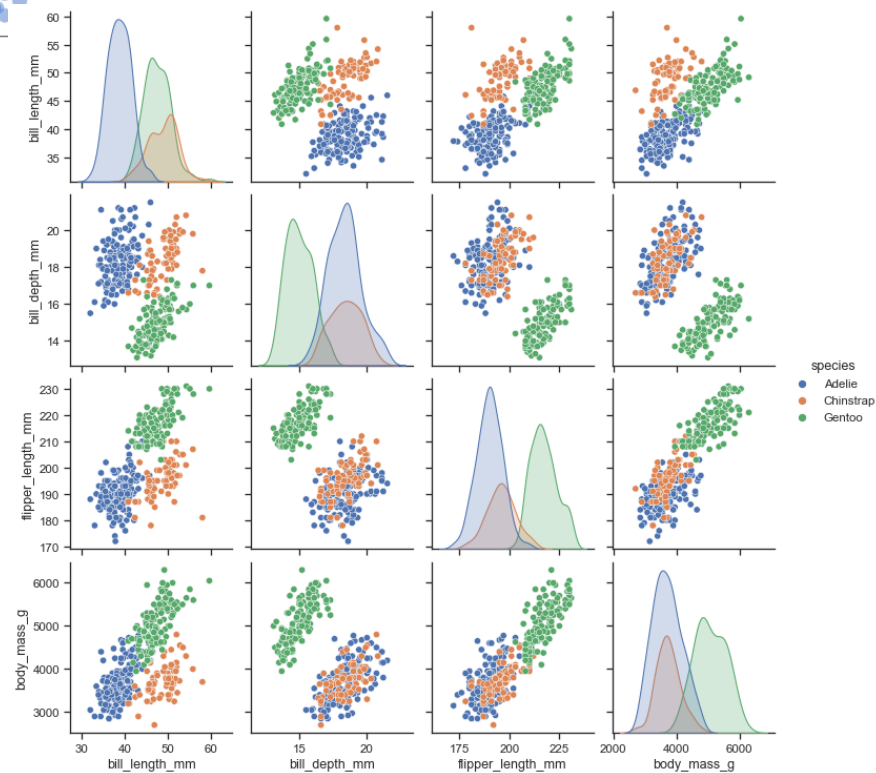
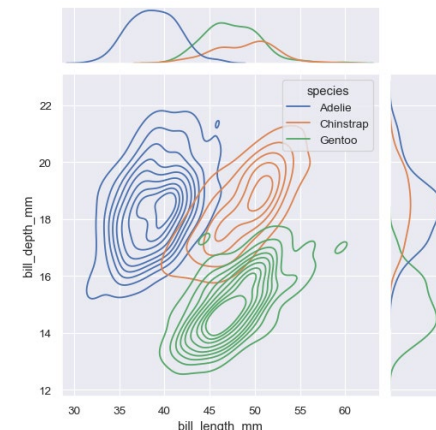
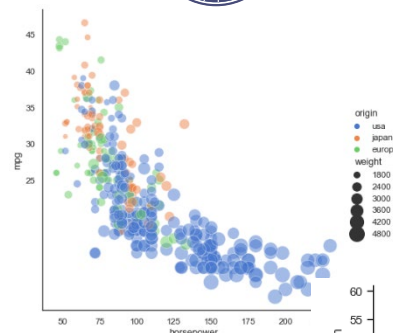
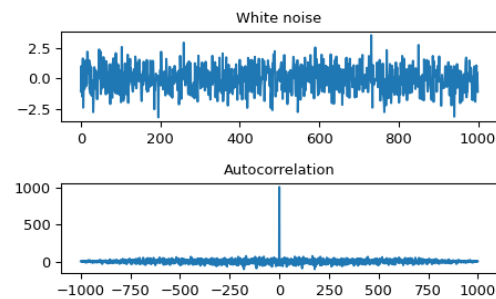
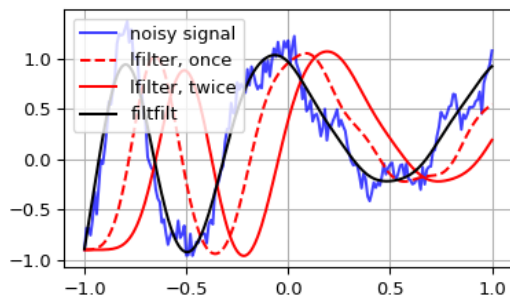
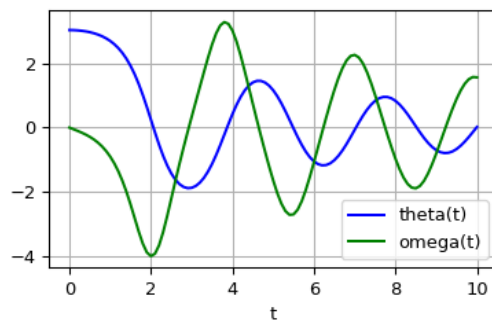
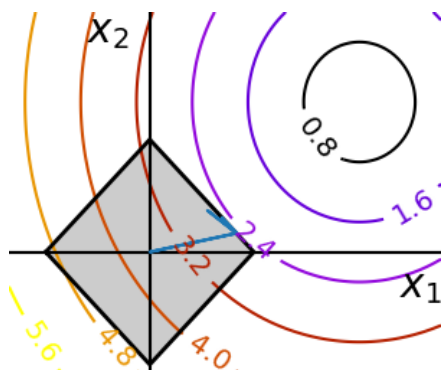


matplotlib





seaborn





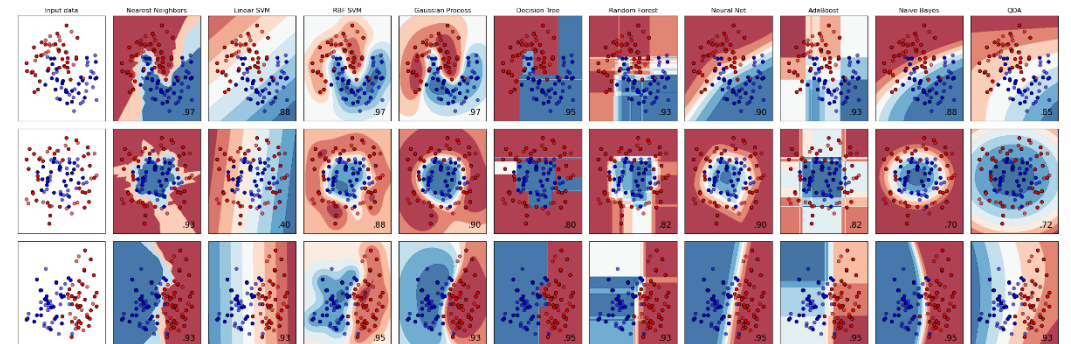
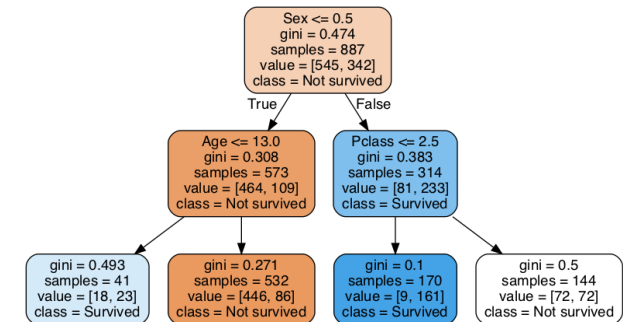
[6]:

	total_cases	new_cases	total_deaths	new_deaths
--	-------------	-----------	--------------	------------

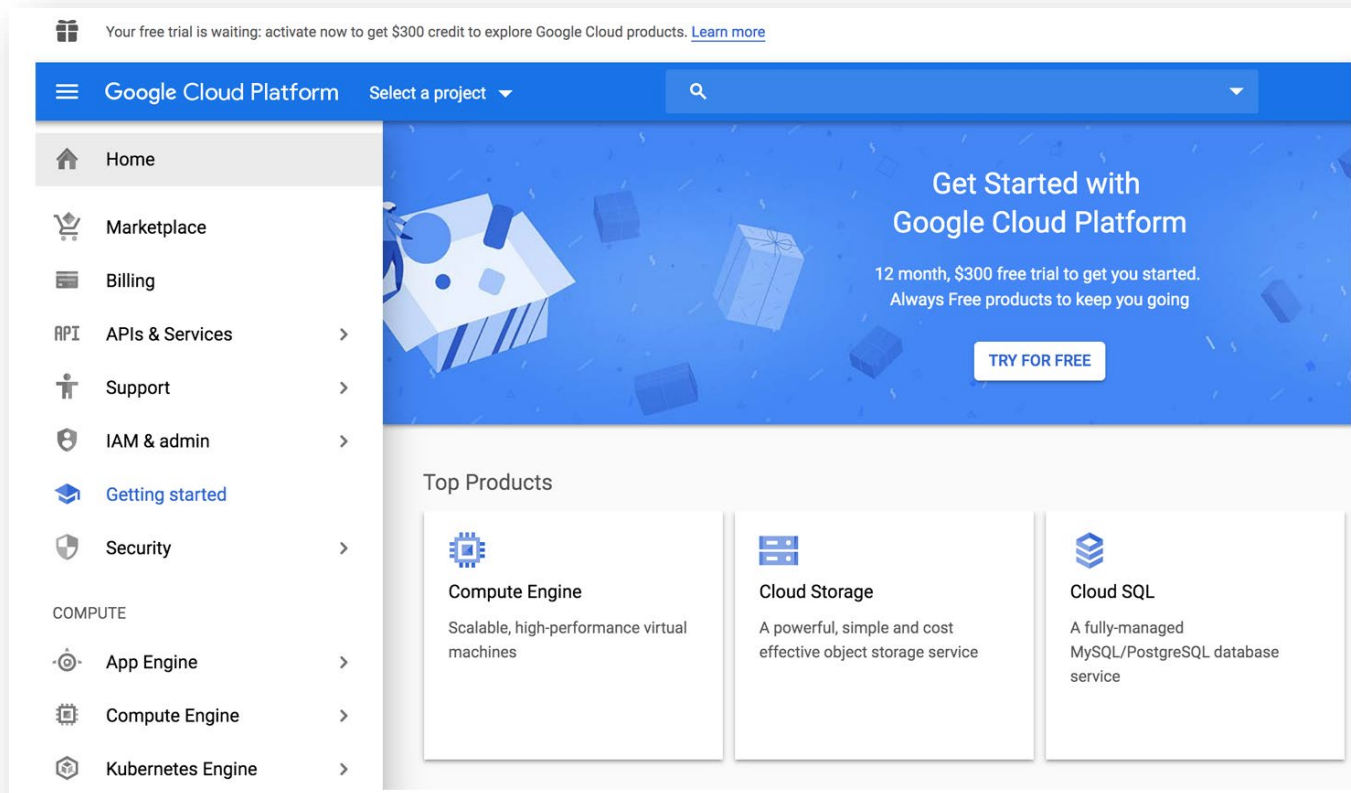
date				
2020-03-04	1.0	1.0	0.0	0.0
2020-03-07	5.0	4.0	0.0	0.0
2020-03-08	6.0	1.0	0.0	0.0
2020-03-09	11.0	5.0	0.0	0.0
2020-03-10	17.0	6.0	0.0	0.0
2020-03-11	22.0	5.0	0.0	0.0
2020-03-12	31.0	9.0	0.0	0.0
2020-03-13	49.0	18.0	0.0	0.0
2020-03-14	68.0	19.0	0.0	0.0
2020-03-15	104.0	36.0	0.0	0.0
2020-03-16	125.0	21.0	0.0	0.0
2020-03-17	177.0	52.0	0.0	0.0
2020-03-18	238.0	61.0	0.0	0.0
2020-03-19	287.0	49.0	0.0	0.0
2020-03-20	355.0	68.0	0.0	0.0
2020-03-21	425.0	70.0	0.0	0.0

Rat 1 - day 08\10.08.2020\

	Left stimulus	Right stimulus	Click	Choice	Payout	Next decision	Next click
0	triangle.png	circleIN.png	Left	triangle.png	Lose	Stay	Stay
1	triangle.png	circleIN.png	Left	triangle.png	Lose	Stay	Shift
2	circleIN.png	triangle.png	Right	triangle.png	Lose	Shift	Stay
3	triangle.png	circleIN.png	Right	circleIN.png	Win	Stay	Shift
4	circleIN.png	triangle.png	Left	circleIN.png	Win	Stay	Stay
5	circleIN.png	triangle.png	Left	circleIN.png	Win	Stay	Shift
6	triangle.png	circleIN.png	Right	circleIN.png	Win	Stay	Shift
7	circleIN.png	triangle.png	Left	circleIN.png	Win	Stay	Stay
8	circleIN.png	triangle.png	Left	circleIN.png	Win	Stay	Stay
9	circleIN.png	triangle.png	Left	circleIN.png	Win	Shift	Stay
10	triangle.png	circleIN.png	Left	triangle.png	Lose	Shift	Stay
11	circleIN.png	triangle.png	Left	circleIN.png	Win	Shift	Stay
12	triangle.png	circleIN.png	Left	triangle.png	Lose	Stay	Shift
13	circleIN.png	triangle.png	Right	triangle.png	Lose	Shift	Shift
14	circleIN.png	triangle.png	Left	circleIN.png	Win	Shift	Stay
15	triangle.png	circleIN.png	Left	triangle.png	Lose	Stay	Shift



Narzędzia chmurowe



← Create version

To create a new version of your model, make necessary adjustments to your saved model file before exporting and store your exported model in Cloud Storage. [Learn more](#)

Name
v0001

Name cannot be changed, is case sensitive, must start with a letter, and may only contain letters, numbers, and underscores. 5 / 128

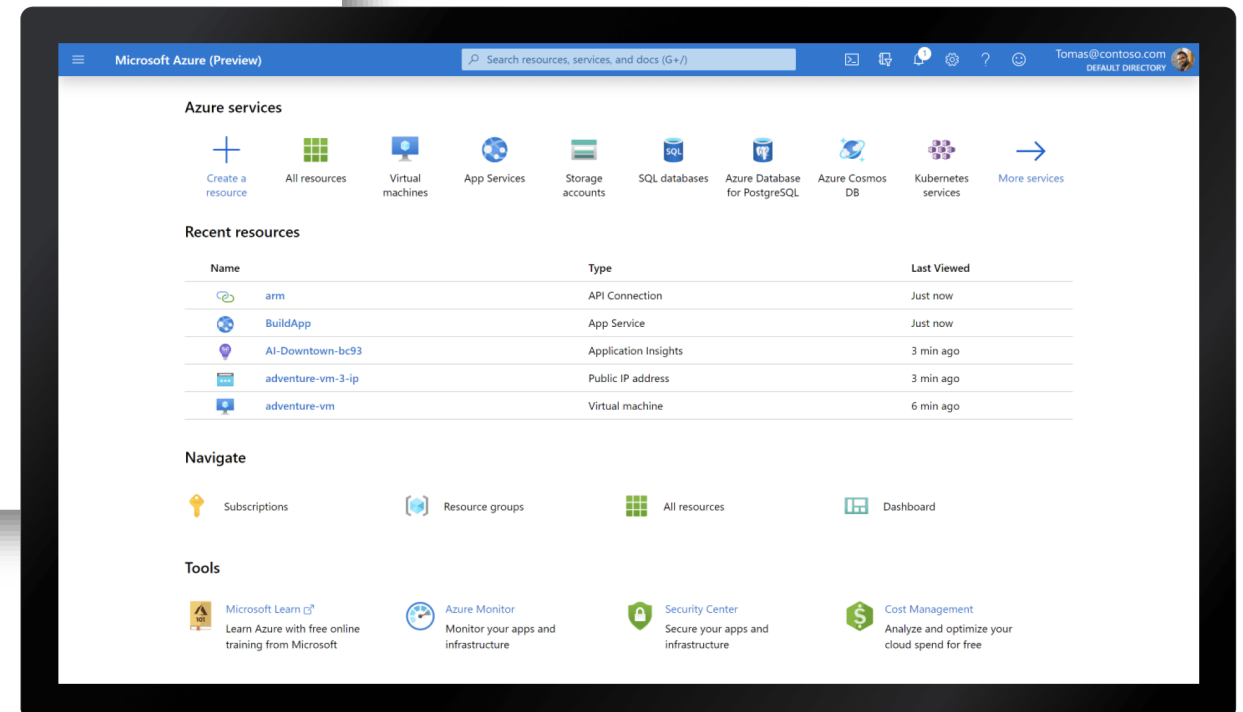
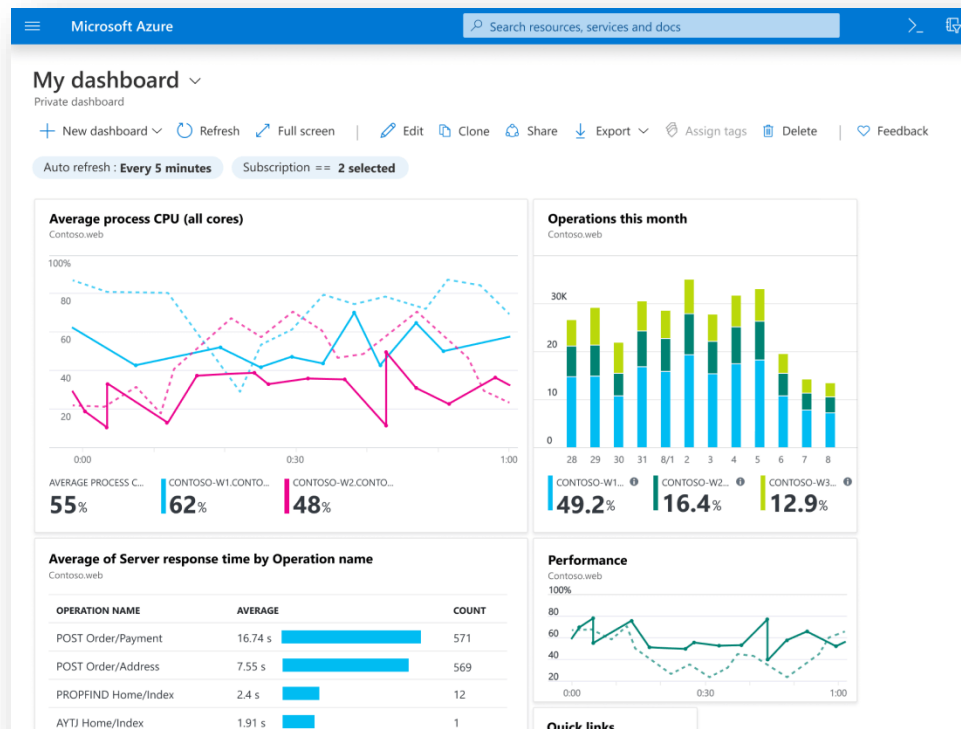
Description
Dense net with 2 layers (100, 10 units)

Python version
3.5

Select the Python version you used to train the model

Framework
TensorFlow

Narzędzia chmurowe



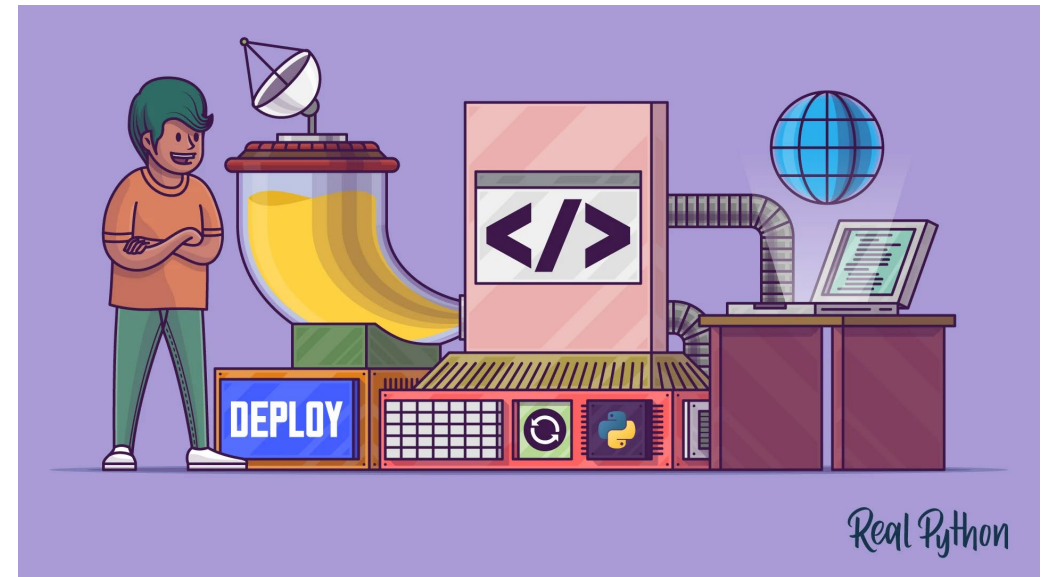
Narzędzia chmurowe



Udostępnianie własnych rozwiązań

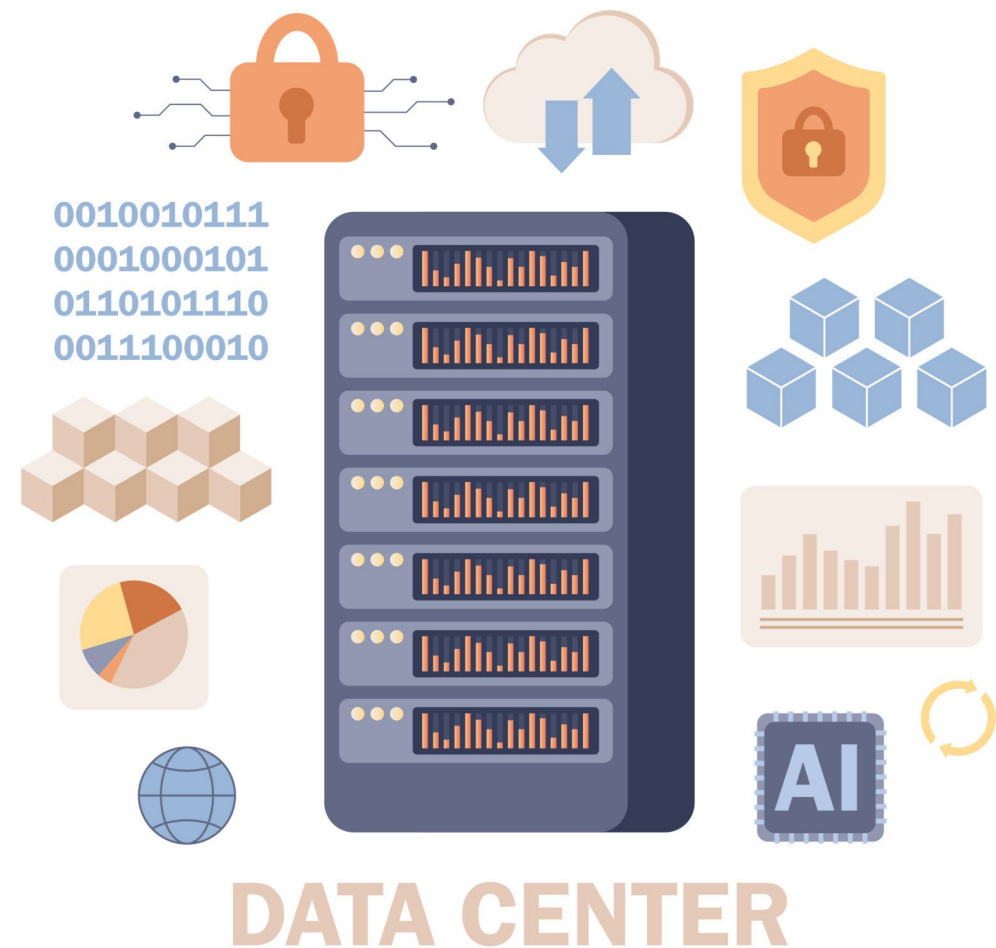


<https://flask.palletsprojects.com/en/2.0.x/>



<https://realpython.com/tutorials/flask/>

Zbiory danych



Pliki własnej produkcji

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
from datetime import datetime

import urllib.request
import os

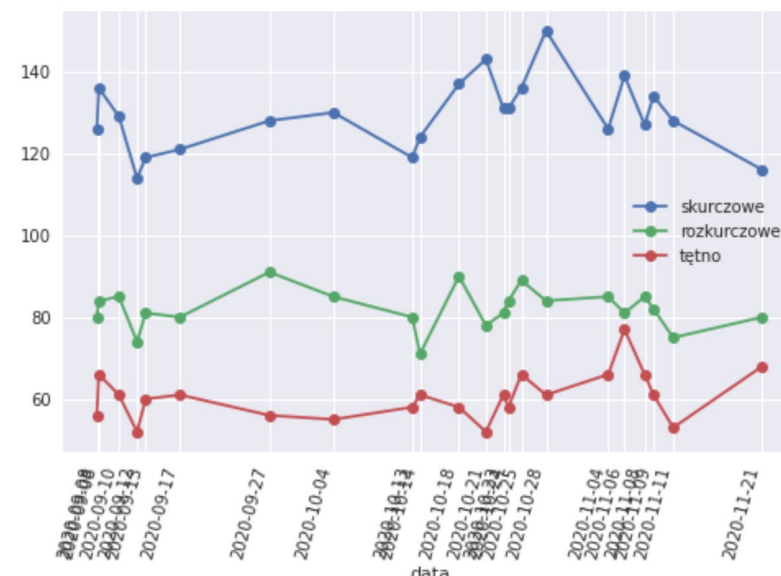
filename = 'cisnienie.xlsx'
url = "https://byes.pl/wp-content/uploads/datasets/" + filename
if not os.path.isfile(filename):
    print(f'Downloading {url} ...')
    urllib.request.urlretrieve(url, filename)

df_raw = pd.read_excel(filename, index_col=0)
df_raw.head()

df = df_raw.set_index(pd.to_datetime(df_raw.index, format='%d_%m_%Y %H_%M'))
df.head()
```

	skurczowe	rozkurczowe	tętno
data			
2020-09-08 12:20:00	126	80	56
2020-09-08 17:42:00	136	84	66
2020-09-10 23:30:00	129	85	61
2020-09-12 23:57:00	114	74	52
2020-09-13 23:29:00	119	81	60

```
with plt.style.context('seaborn'):
    df.plot(marker='o', xticks=df.index, rot=75)
plt.savefig('obr.png', dpi=300, bbox_inches = 'tight', pad_inches = 0.1)
```



Pliki czyjeś produkcji

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
from datetime import datetime

filename = 'owid-covid-data.csv'
url = 'https://covid.ourworldindata.org/data/' + filename
if not os.path.isfile(filename):
    print(f'Downloading {url} ...')
    urllib.request.urlretrieve(url, filename)
```

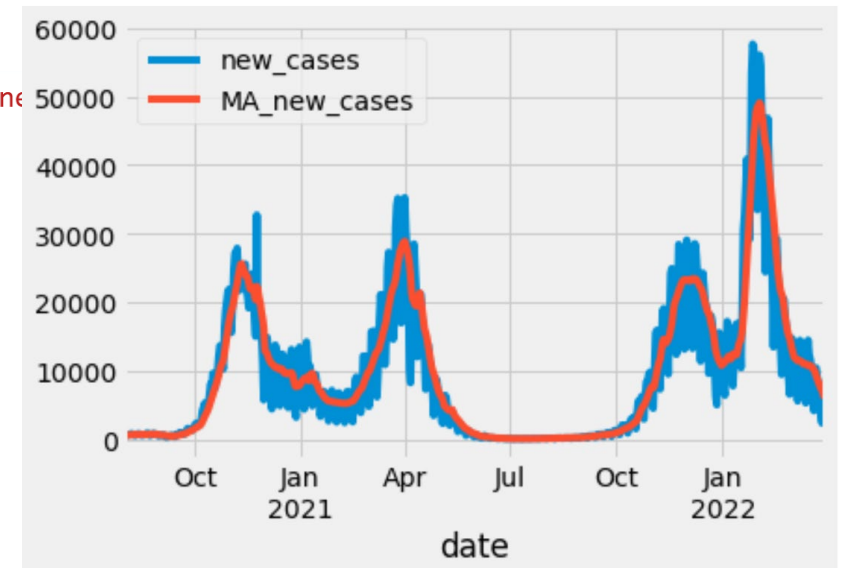
```
df_raw = pd.read_csv(filename, index_col=3)
df_raw.index = pd.DatetimeIndex(df_raw.index)
df_raw.head()
```

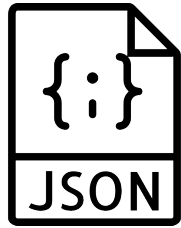
```
features = ['location', 'total_cases', 'new_cases', 'total_deaths', 'new_deaths', 'new_deaths_smoothed']
df_features = df_raw[features]
```

```
df_Pol = df_features[df_features['location'] == 'Poland'].copy()
df_Ger = df_features[df_features['location'] == 'Germany'].copy()
```

```
feature = 'new_cases'
df_Pol['MA_'+feature] = df_Pol[feature].rolling(window=7).mean()
df_Ger['MA_'+feature] = df_Ger[feature].rolling(window=7).mean()
```

```
with plt.style.context('fivethirtyeight'):
    df_Pol[['feature', 'MA_'+feature]]['2020-08-01':].plot()
```





```
import json
```

```
dane = {"one": [1],  
        "two": [1,2],  
        "three": [1,2,3]}  
plik = open("dane.json", 'w')  
dane_json = json.dump(dane, plik)
```

```
plik = open("dane.json", 'r')  
dane_z_pliku = json.load(plik)
```



```
with open("plik.txt", 'r', encoding="utf-8") as plik:  
    for linia in plik:  
        print(linia.strip())
```



```
filename = 'cardiac_patients.xlsx'  
URL = "https://raw.githubusercontent.com/jdrapala/datasets/main/" + filename
```

```
df = pd.read_excel(URL)  
df['BMI'] = df['BMI'].astype(int)
```

	Height	Weight	BMI	Cholesterol LDL	Cholesterol HDL	Gender	Age
306	170	115	39	145	25	Male	70
371	179	108	33	54	29	Male	64
383	160	59	23	183	38	Male	68
611	194	82	21	76	62	Male	63
543	170	99	34	62	30	Male	58
135	156	77	31	99	56	Female	69
644	185	80	23	68	36	Male	68

Ekstrakcja danych ze stron internetowych

```
import requests
from bs4 import BeautifulSoup

URL = "https://pl.wikipedia.org/wiki/Dane_statystyczne_o_miastach_w_Polsce"
resp = requests.get(URL)
if resp.status_code == 200:
    soup = BeautifulSoup(resp.content, 'html.parser')
    tab = soup.find('table', {'class': "wikitable"})
    df = pd.read_html(str(tab))[0]
    df.head()
```

```
tabela = df.drop(["Powiat"], axis=1)
tabela = tabela.rename(columns={"Powierzchnia [ha] (01.01.2020)": "Powierzchnia",
                                "Liczba ludności (01.01.2020)": "Ludność",
                                "Gęstość zaludnienia [osoby/km²] (01.01.2020)": "Gęstość zaludnienia"})

tabela
```

```
tabela.sort_values(by='Ludność', ascending=False).head(20)
```

	Miasto	Województwo	Powierzchnia	Ludność	Gęstość zaludnienia
849	Warszawa	mazowieckie	51724	1790658	3462
327	Kraków	małopolskie	32685	779115	2384
411	Łódź	łódzkie	29325	679941	2319
893	Wrocław	dolnośląskie	29282	642869	2195
601	Poznań	wielkopolskie	26191	534813	2042
165	Gdańsk	pomorskie	26196	470907	1798
770	Szczecin	zachodniopomorskie	30060	401907	1337
72	Bydgoszcz	kujawsko-pomorskie	17598	348190	1979
378	Lublin	lubelskie	14747	339784	2304

Ekstrakcja danych ze stron internetowych

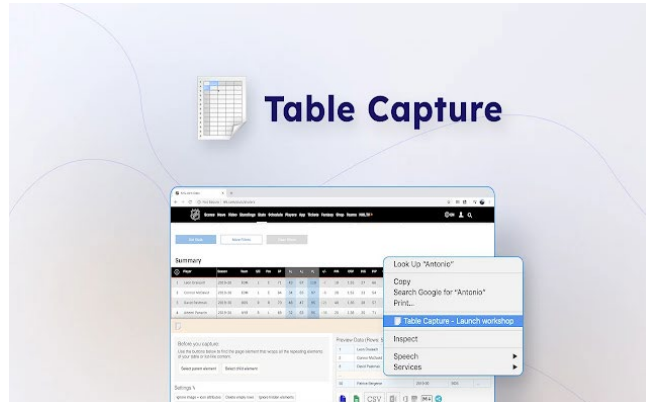
How to Use Selenium to Web-Scrape with Example

Scraping NBA Player Names and Salaries from Hoopshype.com Using Selenium



Bryan Pfalzgraf · [Follow](#)

Published in [Towards Data Science](#) · 5 min read · Apr 3, 2020



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```
import sqlite3

# jeżeli baza nie istnieje, zostanie utworzona
conn = sqlite3.connect('mydata.sqlite')

query = """
CREATE TABLE test(city VARCHAR(20), area REAL, population INTEGER);
"""

conn.execute(query)
# zatwierdza transakcję
conn.commit()

data = [('Wrocław', 326.5, 800000),
        ('Kraków', 372.1, 920000),
        ('Sieniawa', 25, 4000)]

mquery = "INSERT INTO test VALUES(?, ?, ?)"

conn.executemany(mquery, data)
conn.commit()
conn.close()
```

```
conn = sqlite3.connect('mydata.sqlite')

query = "SELECT * FROM test"
cursor = conn.execute(query)

rows = cursor.fetchall()
print(rows)
```

```
import pandas as pd
pd.DataFrame(rows, columns=[elem[0] for elem in cursor.description])
```

```
import sqlalchemy as sqla

database = sqla.create_engine('sqlite:///mydata.sqlite')

query = "SELECT * FROM test"
pd.read_sql(query, database)
```

Google Trends

```
from pytrends.request import TrendReq
```

```
pytrend = TrendReq()
```

```
keyword = 'Geralt'
```

```
pytrend.build_payload(kw_list=[keyword])
```

```
df = pytrend.interest_by_region()
```

```
df.reset_index().plot(x='geoName', y=keyword, figsize=(120, 10), kind='bar')
```

```
df = pytrend.trending_searches(pn='poland')
```

```
df.head()
```

```
df = pytrend.today_searches(pn='PL')
```

```
df
```



```
from datetime import datetime as dt
```

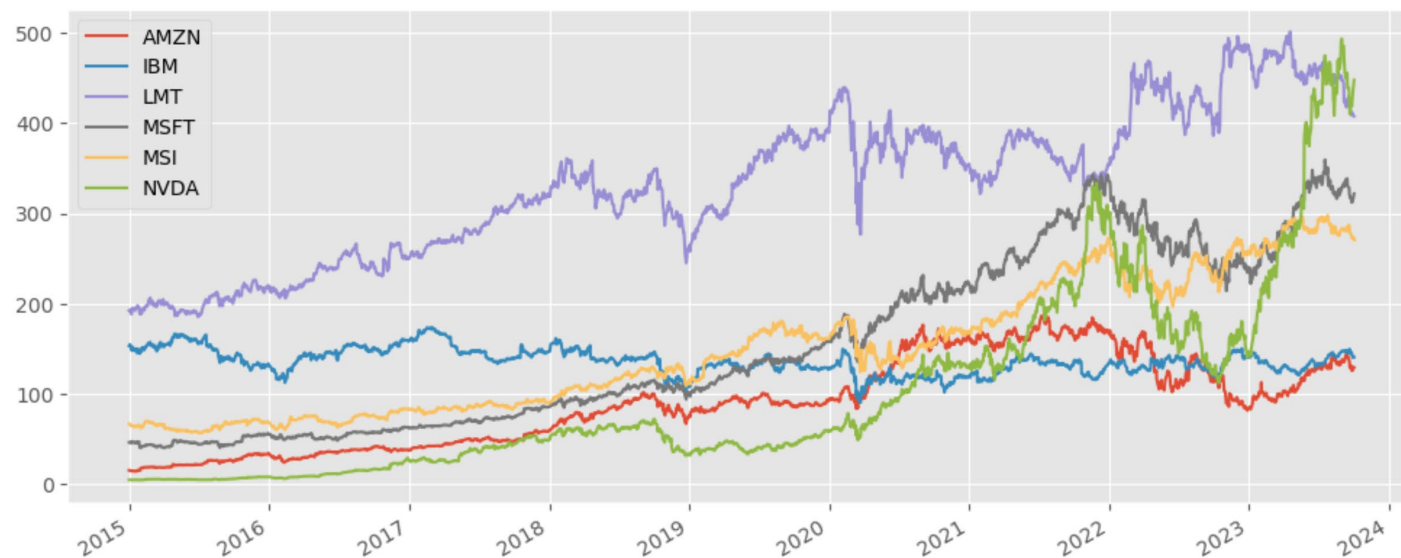
```
import pytz # strefa czasowa  
tz = pytz.timezone("Europe/Warsaw")
```

```
import yfinance as yf
```

```
df = yf.download(  
    tickers=['AMZN', 'MSFT', 'IBM', 'LMT', 'NVDA', 'MSI'],  
    start=tz.localize(dt(2015,1,1)),  
    end=tz.localize(dt.today()),  
)
```

```
df['Close']
```

	AMZN	IBM	LMT	MSFT	MSI	NVDA
Date						
2014-12-31	15.517500	153.384323	192.570007	46.450001	67.080002	5.012500
2015-01-02	15.426000	154.933075	193.309998	46.759998	66.510002	5.032500
2015-01-05	15.109500	152.495224	189.289993	46.330002	65.059998	4.947500
2015-01-06	14.764500	149.206497	188.399994	45.650002	64.510002	4.797500
2015-01-07	14.921000	148.231354	190.830002	46.230000	64.430000	4.785000
...	...	...	...	...	...	...
2023-09-27	125.980003	143.169998	408.720001	312.790009	272.980011	424.679993
2023-09-28	125.980003	141.580002	410.959991	313.640015	274.190002	430.890015
2023-09-29	127.120003	140.300003	408.959991	315.750000	272.239990	434.989990
2023-10-02	129.460007	140.800003	407.820007	321.799988	272.920013	447.820007





```
import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
import seaborn as sns
```

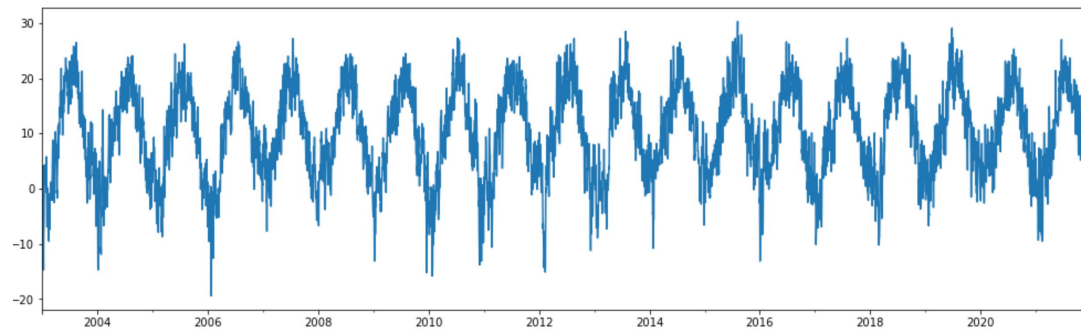
```
from datetime import datetime
```

```
import meteostat
```

```
start, end = datetime(2003, 1, 1), datetime(2021, 12, 31)
```

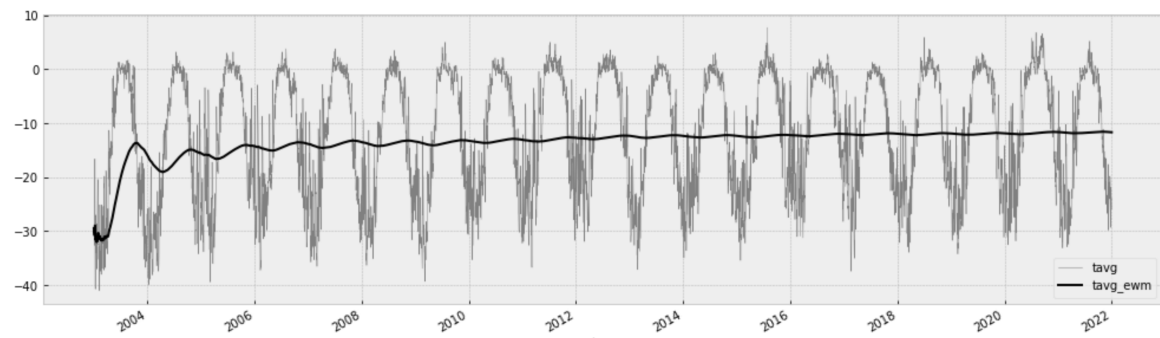
```
stacje = meteostat.Stations()
wroclaw = stacje.nearby(51,17)
wroclaw = wroclaw.fetch(1)
```

```
pomiary = meteostat.Daily(wroclaw, start, end)
pomiary = pomiary.fetch()
pomiary['tavg'].plot(figsize=(17,5))
```

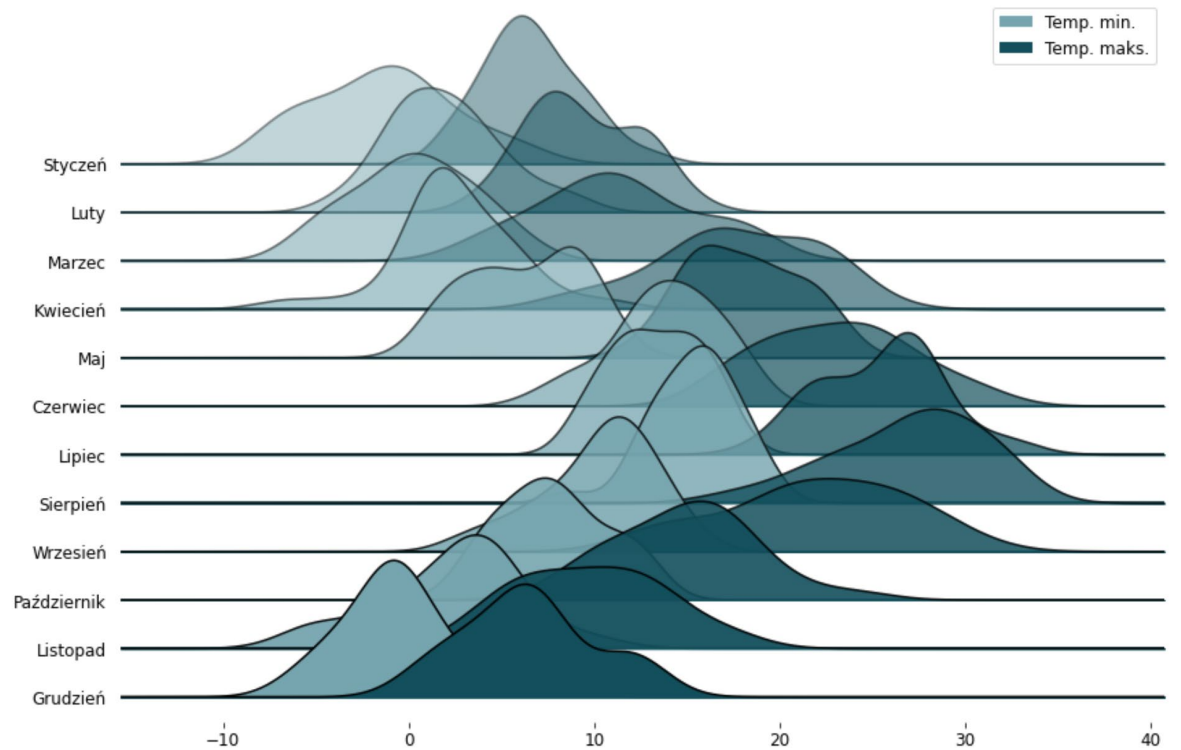
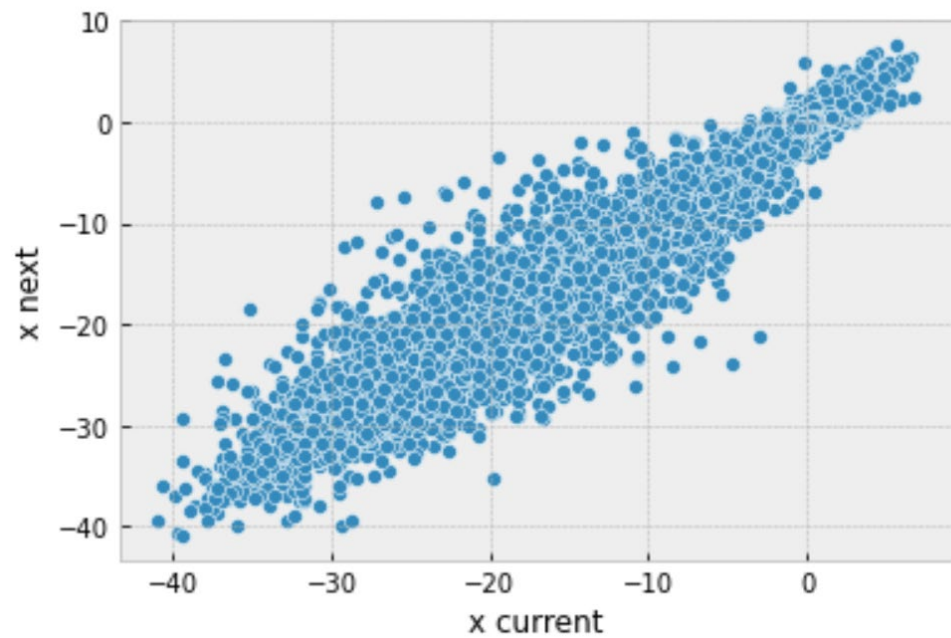


```
df = pomiary[['tavg']]
df.insert(0, 'tavg_interp', df['tavg'].interpolate())
df.insert(0, 'tavg_ewm', df['tavg'].ewm(alpha = .000055).mean())
```

```
with plt.style.context('bmh'):
    fig, ax = plt.subplots(figsize=(17,5))
    df['tavg'].plot(ax=ax, color='gray', linewidth=0.5)
    df['tavg_ewm'].plot(ax=ax, color='black')
    plt.legend()
    plt.show()
```



```
df_pom = pd.DataFrame({'x current': df['tavg'].values[:-1], 'x next': df['tavg'].values[1:]})
with plt.style.context('bmh'):
    sns.scatterplot(data=df_pom, x="x current", y="x next")
plt.show()
```





Independent Statistics & Analysis

U.S. Energy Information
Administration

```
!pip install EIA-python
```

```
import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
import networkx as nx
import eia
```

```
klucz="6ddcschoeringwielguscec9"
```

```
API = eia.API(klucz)
```

```
API.data_by_series("EMISS.CO2-TOTV-EC-NG-AR.A")
```

```
SERIES_ID_list = ["INTL.57-1-ARG-TBPD.M",
                  "INTL.57-1-WP11-TBPD.M",
                  "INTL.57-1-AUT-TBPD.M",
                  "INTL.57-1-AZE-TBPD.M",
                  "INTL.57-1-BGD-TBPD.M",
                  "INTL.57-1-BLR-TBPD.M",
                  "INTL.57-1-BRA-TBPD.M",
```

```
lista_ramek = [pd.DataFrame(API.data_by_series(ID)) for ID in SERIES_ID_list]
```

```
dane = pd.concat(lista_ramek, axis=1)
```

```
for col in dane.columns:
```

```
    dane.rename(columns={col: col.replace('Crude oil including lease condensate production,', '').
                                replace(', Monthly (thousand barrels per day)', '').
                                strip()}),
```

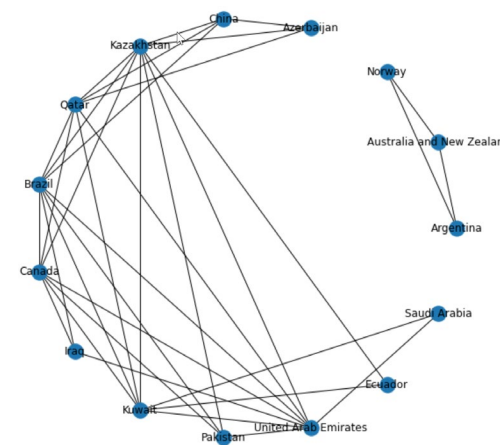
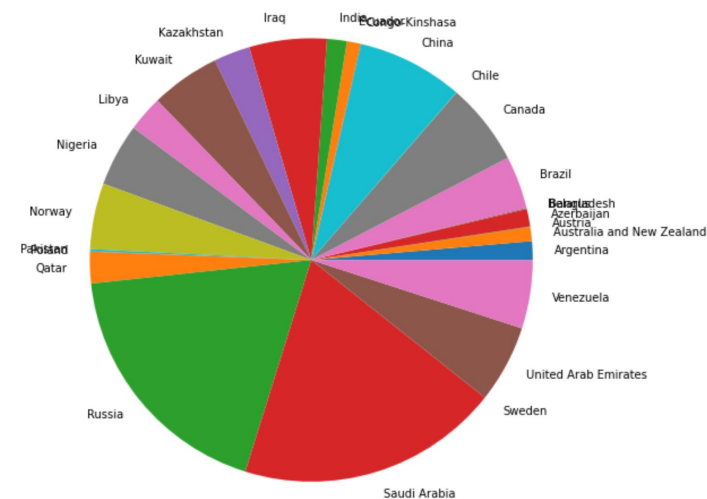
```
            inplace=True)
```

```
dane = dane.dropna()
```

Saudi Arabia	9091.621386
Russia	8772.642723
China	3671.588523
Canada	2847.754127
United Arab Emirates	2689.643094
Iraq	2683.660082
Kuwait	2400.514293
Venezuela	2369.314420
Norway	2281.583281
Nigeria	2171.176036
Brazil	1824.856285

```
dane.mean().sort_values(ascending=False)
```

```
plt.figure(figsize=(9,9))
plt.pie(dane.mean(), labels=dane.columns)
plt.show()
```





```
from github kwimport Github
```

Go to Settings -> Developer settings -> Personal access tokens

```
USER='jdrapala'  
TOKEN='ghp_AschoeringwielguscSVZ'  
git=Github(USER, TOKEN)
```

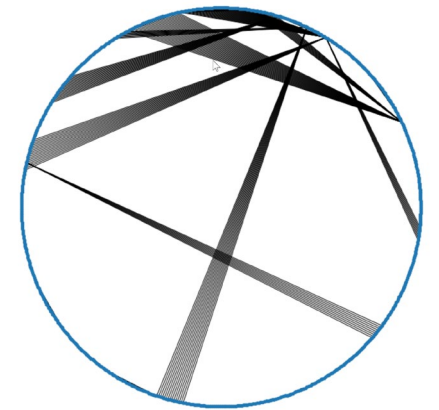
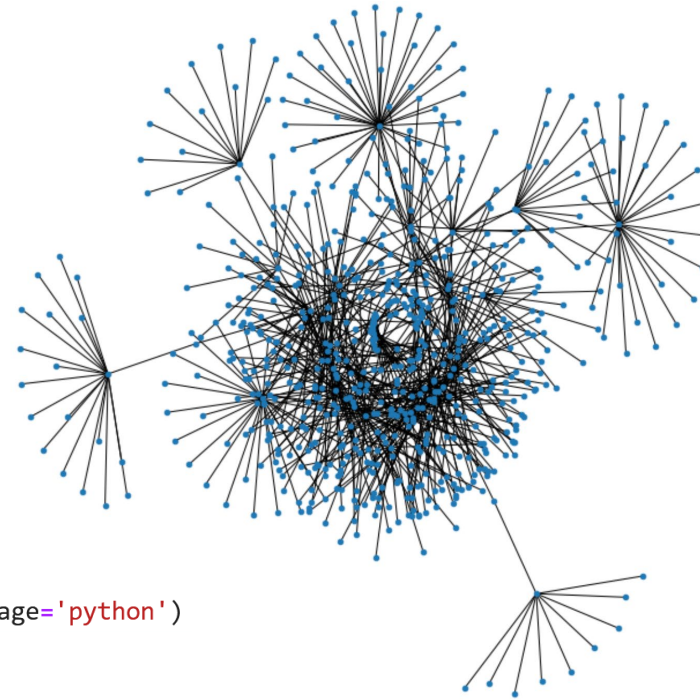
```
list(git.get_user().get_repos())
```

```
repozytoria = git.search_repositories(query='covid data analysis', language='python')
```

```
for repo in repozytoria:  
    print(repo.full_name)  
    print(set([komit.commit.author.name for komit in repo.get_commits()])))
```

```
repos_size = {repo: len(committers) for repo, committers in committers_dict.items()}  
df = pd.DataFrame(repos_size.items(), columns=['repo', 'No. of committers'])
```

```
import itertools  
connections_list = []  
for committers in committers_dict.values():  
    connections_list.extend([conn for conn in itertools.combinations(committers,2)])
```



	repo	No. of committers
🖱	spectralpython/spectral	13
	PyImageSearch/imutils	20
	dask/dask-image	18
	Image-Py/imagepy	27
	ankitaggarwal011/PyCNN	14

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Free and open access to global development data

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Metadata Glossary

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Environment Social
and Governance (ESG)
Data was updated on
October 2, 2023

Worldwide
Governance Indicators
was updated on
September 29, 2023

Health Nutrition and
Population Statistics

Explore. Create. Share: Development Data

DataBank is an analysis and visualisation tool that contains collections of time series data on a variety of topics. You can run queries; generate tables, charts, and maps; and easily save, embed, and share them. Enjoy using DataBank!

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Type keywords to filter database names



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Database preview: ☐ ON ☒ OFF 

World Development Indicators  [Public](#)



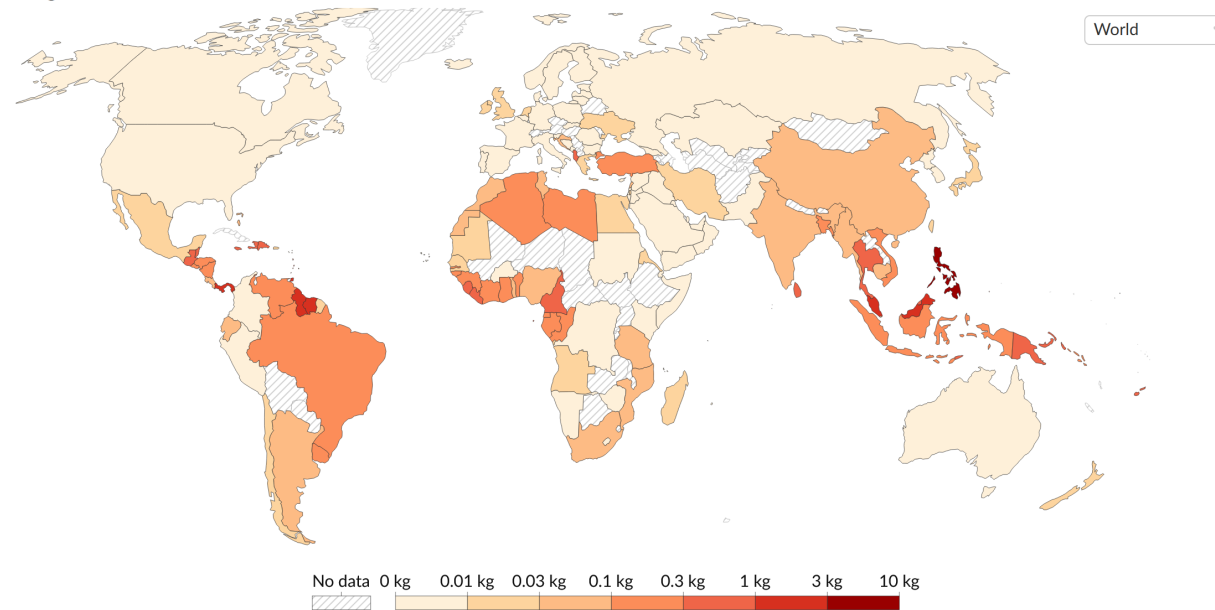
Research and data to make progress against the world's largest problems

3704 charts across 297 topics
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Plastic waste emitted to the ocean per capita, 2019

This is an annual estimate of plastic emissions. A country's total does not include the waste that is exported overseas and that may be at higher risk of entering the ocean.

Our World
in Data



Source: Meijer et al. (2021). More than 1000 rivers account for 80% of global riverine plastic emissions into the ocean. Science Advances.
OurWorldInData.org/plastic-pollution • CC BY

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Portal danych

Korzystaj z danych bezpłatnie, również do celów komercyjnych

Wyszukaj dane...



Wybierz kategorię danych

Edukacja, kultura i sport

Liczba zbiorów danych: 147

Energia

Liczba zbiorów danych: 91

Gospodarka i finanse

Liczba zbiorów danych: 323

Kwestie międzynarodowe

Liczba zbiorów danych: 51

Ludność i społeczeństwo

Liczba zbiorów danych: 165

Nauka i technologia

Liczba zbiorów danych: 293

Regiony i miasta

Liczba zbiorów danych: 488

Rolnictwo, rybołówstwo, leśnictwo i żywność

Liczba zbiorów danych: 132

Rząd i sektor publiczny

Liczba zbiorów danych: 620

Sprawiedliwość, ustrój sądów i bezpieczeństwo publiczne

Liczba zbiorów danych: 91

Środowisko

Liczba zbiorów danych: 223

Transport

Liczba zbiorów danych: 98

Ukraina

Liczba zbiorów danych: 17

Zdrowie

Liczba zbiorów danych: 213



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METADANE ▾

API

ARCHIWUM ▾

POMOC ▾

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Stan zasilenia danych ▴

Dane dla roku 2023 (dane krótkookresowe)

Dane dla roku 2022

Dane dla roku 2021

Komunikaty

Ankieta ▴



Zapraszamy do wypełnienia ankiety. Państwa opinia jest dla nas bardzo ważna!

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Dane według dziedzin



Dane roczne i krótkookresowe z wybranej dziedziny tematycznej dla wielu jednostek terytorialnych (administracyjnych i statystycznych). Informacje można prezentować w tablicach i na wykresach

Dane dla jednostki terytorialnej



Dane dla wybranej jednostki administracyjnej (miejscowości, gminy, powiatu, województwa, kraju) lub statystycznej (makroregionu, regionu, podregionu) z wielu dziedzin tematycznych.

Interfejs API



Dostęp do danych Banku poprzez interfejs REST API w formacie Json i Xml. API do BDL zrealizowano w ramach partnerskiego projektu „Otwarte dane – dostęp, standard, edukacja”, którego Liderem jest Ministerstwo Cyfryzacji. Projekt jest współfinansowany ze środków Unii Europejskiej z Programu Operacyjnego Polska Cyfrowa.

BANK DANYCH LOKALNYCH jest największą w Polsce bazą danych o gospodarce, społeczeństwie i środowisku. BDL oferuje ponad 40 tys. cech statystycznych pogrupowanych tematycznie. Pierwsze dane pochodzą z 1995 roku.

- Dane i wskaźniki opisują miejscowości statystyczne, gminy, powiaty, województwa i Polskę, a także jednostki zgodne z nomenklaturą NUTS: makroregiony, regiony i podregiony.



NARZĘDZIA

POSTĘPOWANIA

AKTUALNOŚCI

KAPITAŁ ŻELAZNY

FUNDACJA

Fundacja Moje Państwo

Tworzymy narzędzia, które ułatwiają korzystanie z zasobów publicznych



Przeglądarka danych
statystycznych GUS



Wyszukiwarka danych o
spółkach, fundacjach i
stowarzyszeniach



Portal monitorujący
zamówienia publiczne



Wykaz instytucji, którym
przyznawana jest pomoc
publiczna

Wywiad Gospodarczy Online

Sprawdź z kim robisz biznes

Wyszukiwarka firm, stowarzyszeń, fundacji i osób, powiązania kapitałowo-osobowe dzięki informacjom z KRS, historia podmiotów, raporty handlowe, najnowsze odpisy z rejestru KRS, statusy VAT i informacje z Białej Listy. Miliony danych z różnych źródeł w jednym miejscu.

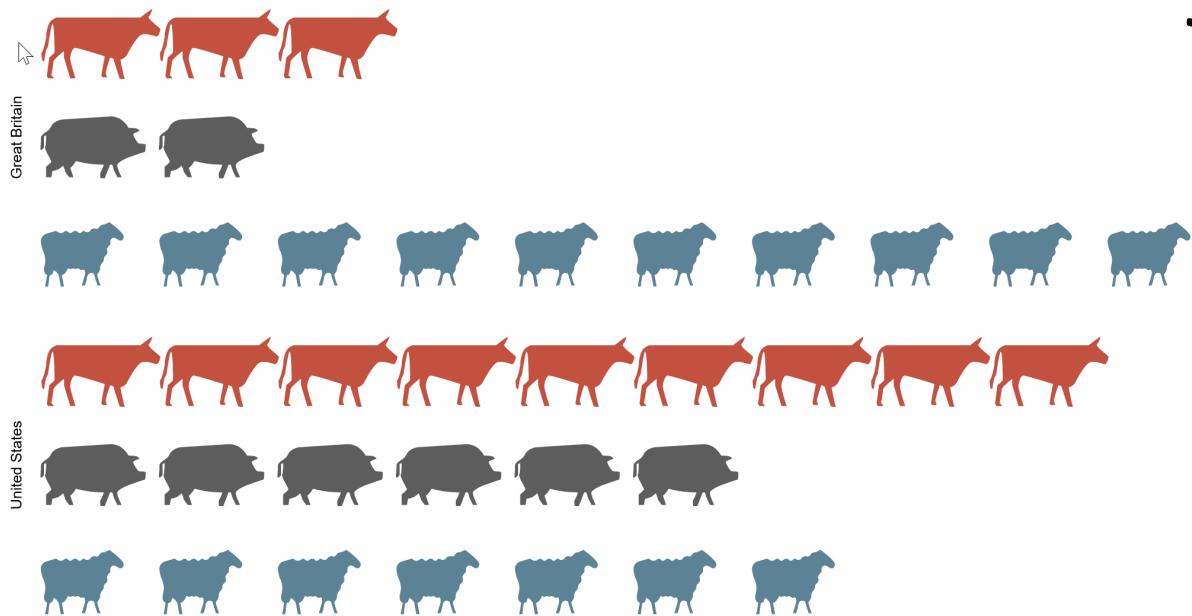
WYPRÓBUJ ZA DARMO

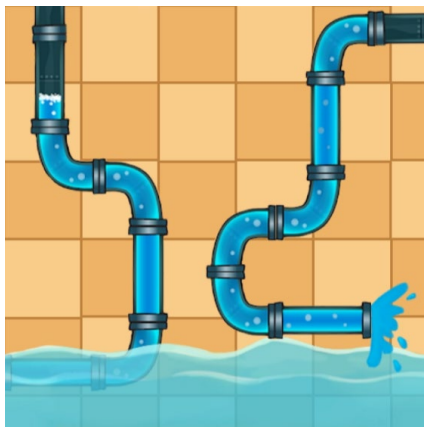
3 raporty handlowe PREMIUM za darmo i 7 dni testów
bez zobowiązań

i wiele innych ...



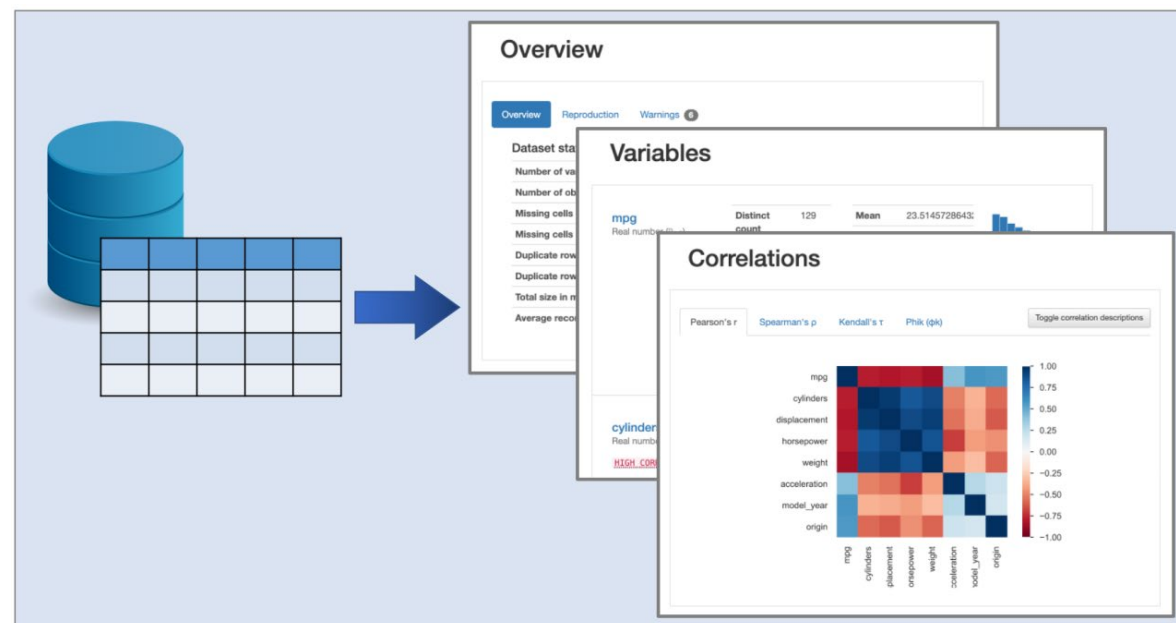
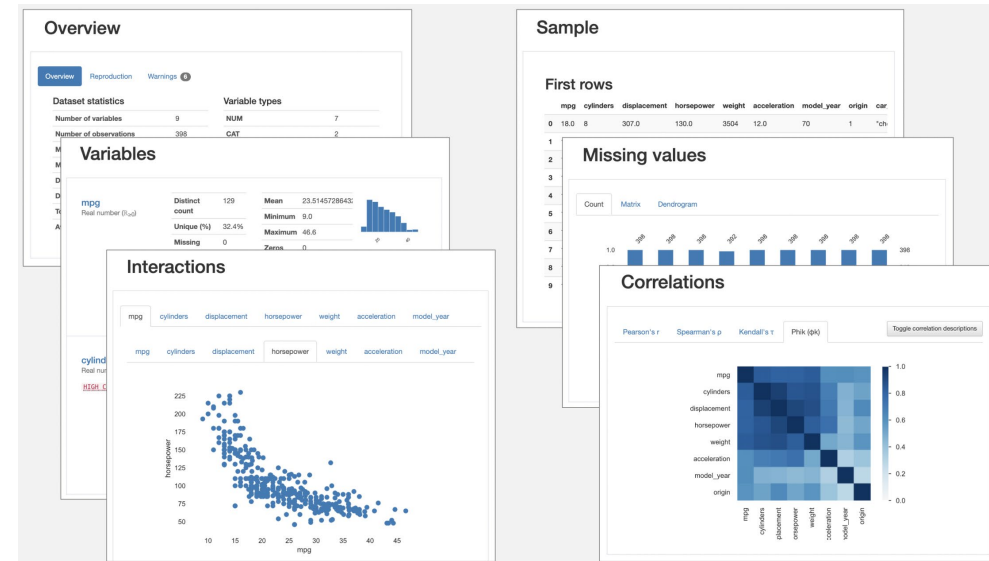
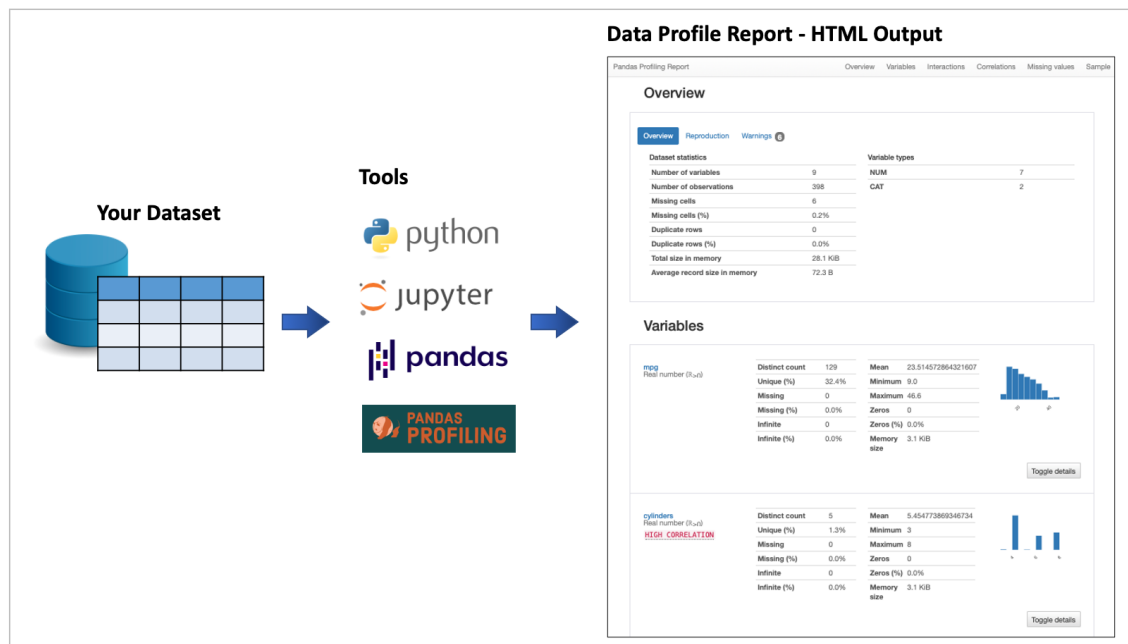
Oporządzanie danych i wizualizacja





```
def remove_high(df, column, value):  
    return df[abs(df[column]) <= value]  
  
def add_sign_column(df, column):  
    df_copy = df.copy()  
    df_copy[column+'_sign'] = np.sign(df[column])  
    return df_copy  
  
(df_ext.  
    pipe(remove_high, column='Z', value=1).  
    pipe(add_sign_column, column='Z')  
)
```

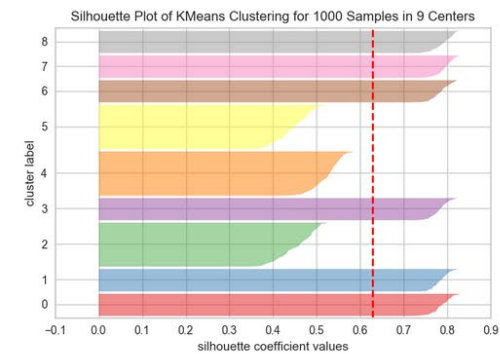
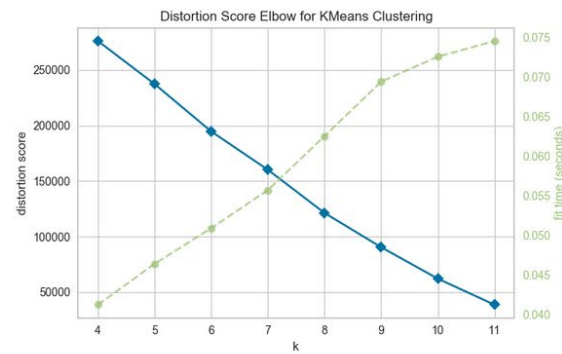
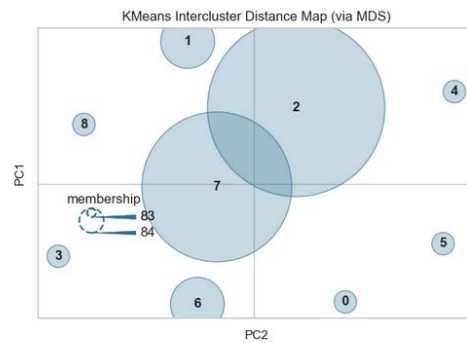
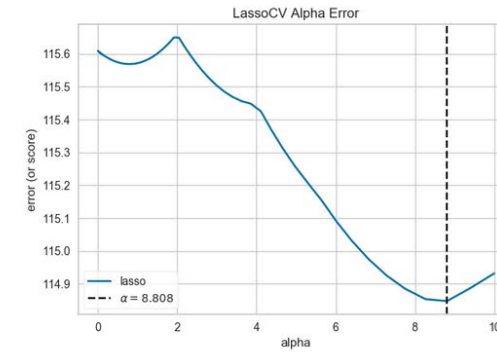
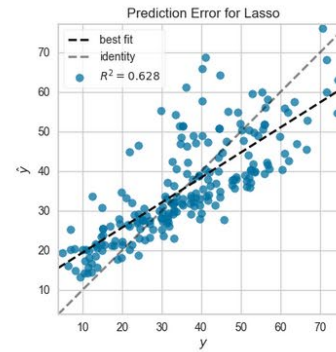
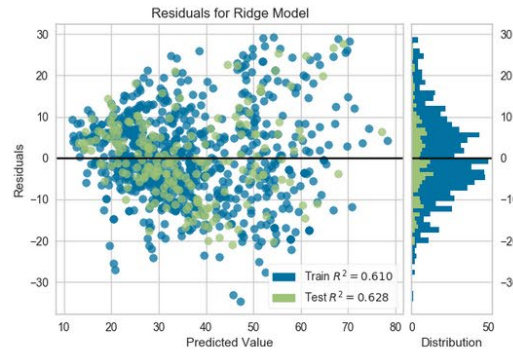
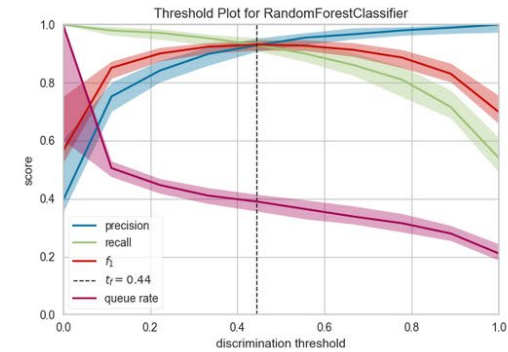
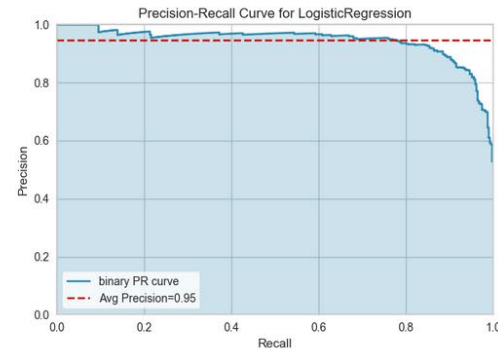
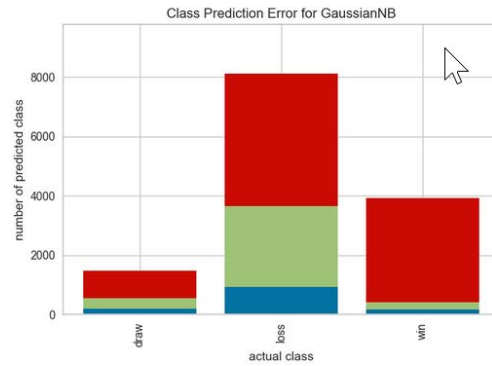
	Height	Weight	BMI	Cholesterol LDL	Cholesterol HDL	Gender	Age
306	170	115	39	145	25	Male	70
371	179	108	33	54	29	Male	64
383	160	59	23	183	38	Male	68
611	194	82	21	76	62	Male	63
543	170	99	34	62	30	Male	58
135	156	77	31	99	56	Female	69
644	185	80	23	68	36	Male	68



Sweetviz



Yellowbrick: Machine Learning Visualization

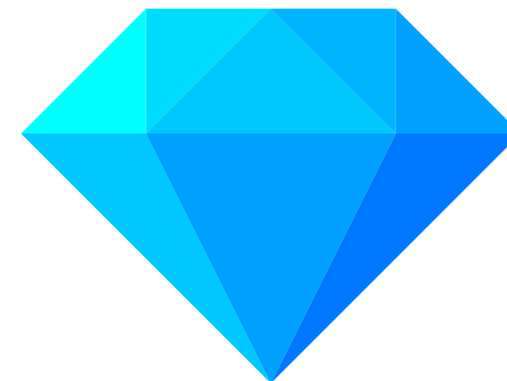




OpenRefine

OpenRefine is a powerful free, open source tool for working with messy data: cleaning it; transforming it from one format into another; and extending it with web services and external data.

Download

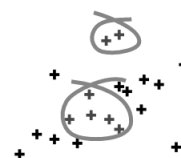


Main features



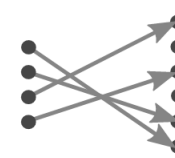
Faceting

Drill through large datasets using facets and apply operations on filtered views of your dataset.



Clustering

Fix inconsistencies by merging similar values thanks to powerful heuristics.



Reconciliation

Match your dataset to external databases via reconciliation services.

matplotlib

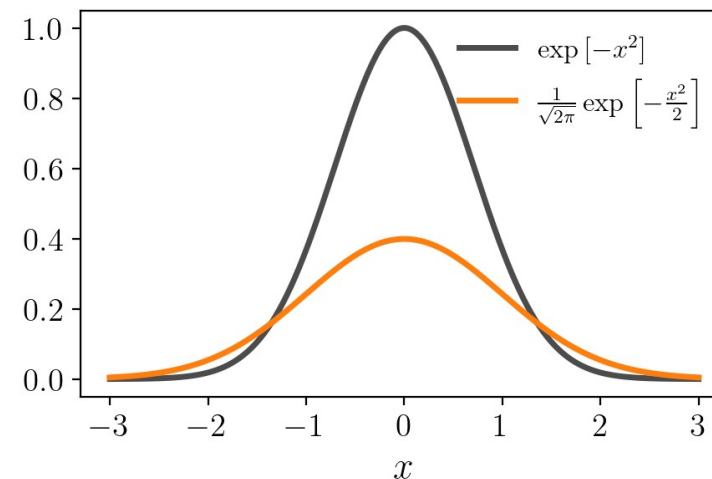
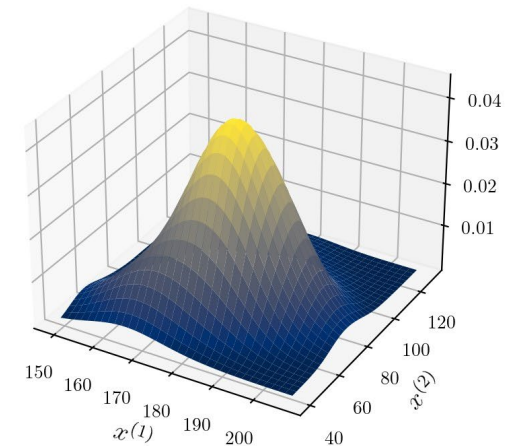
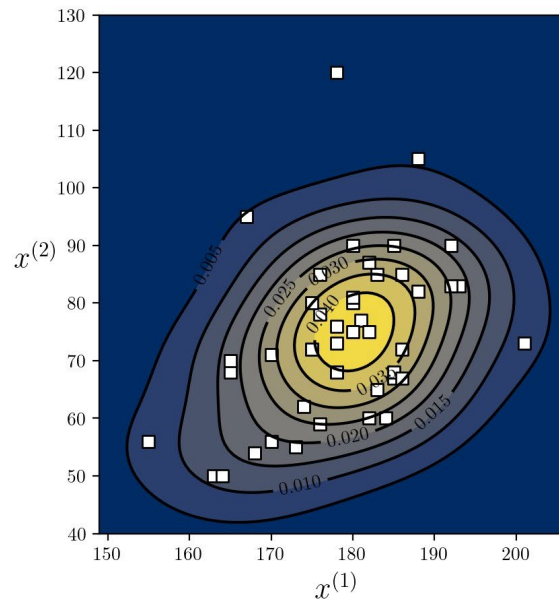
```
import matplotlib.pyplot as plt
import numpy as np

plt.rcParams.update({
    "text.usetex": True,
    "font.family": "sans-serif",
    "font.sans-serif": ["Helvetica"]
})

xx = np.linspace(start=-3, stop=3, num=300)
yy = np.exp(-xx**2)
yy_rescaled = np.exp(-xx**2/2)/np.sqrt(2*np.pi)

plt.figure(figsize=(5,3))
plt.plot(xx, yy, color='black',
         linewidth=2.5, alpha=0.7,
         label=r'$\exp\left[-x^2\right]$')
plt.plot(xx, yy_rescaled, color='tab:orange',
         linewidth=2.5, alpha=1,
         label=r'$\frac{1}{\sqrt{2\pi}}\exp\left[-\frac{x^2}{2}\right]$')
plt.xlabel('$x$', fontsize=16)

plt.xticks(fontsize=14)
plt.yticks(fontsize=14)
plt.legend(fontsize=12, frameon=False)
plt.savefig('filename.png', dpi=200, bbox_inches = 'tight', pad_inches = 0.1)
plt.show()
```





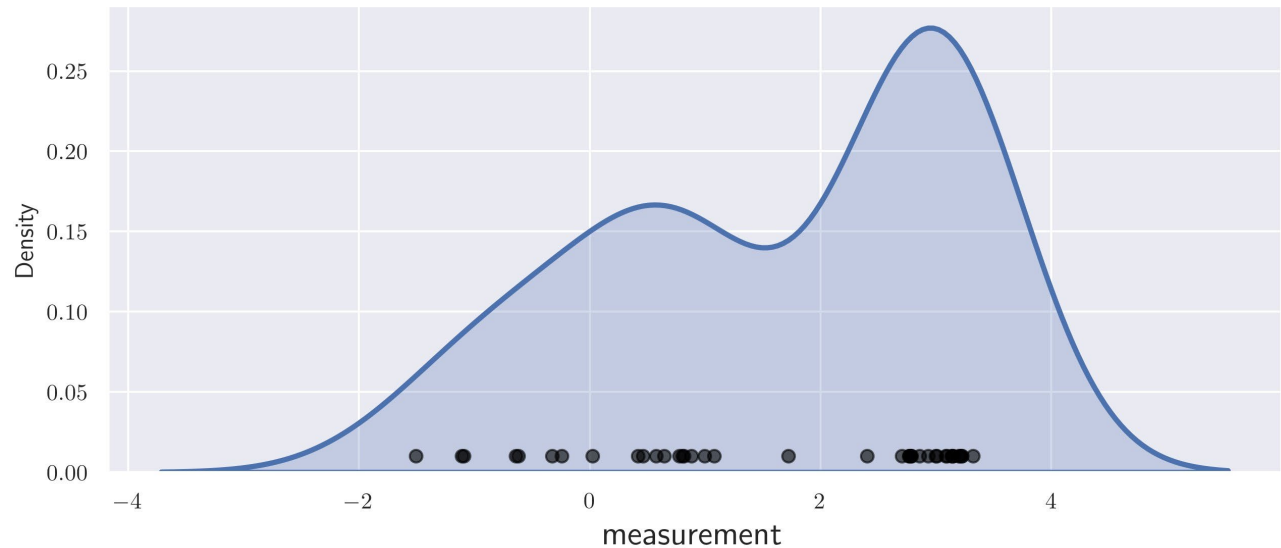
```
import matplotlib.pyplot as plt
import numpy as np

import seaborn as sns
sns.set()

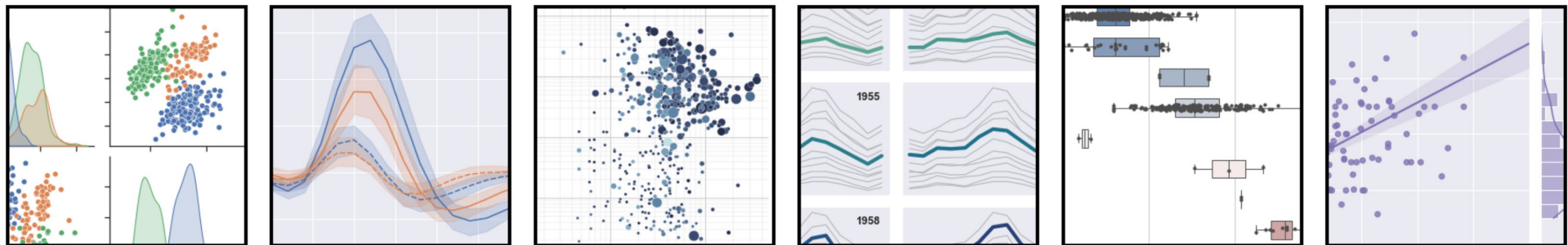
X = np.concatenate([np.random.normal(0,1, size=20),
                    np.random.normal(3,0.3, size=20)])

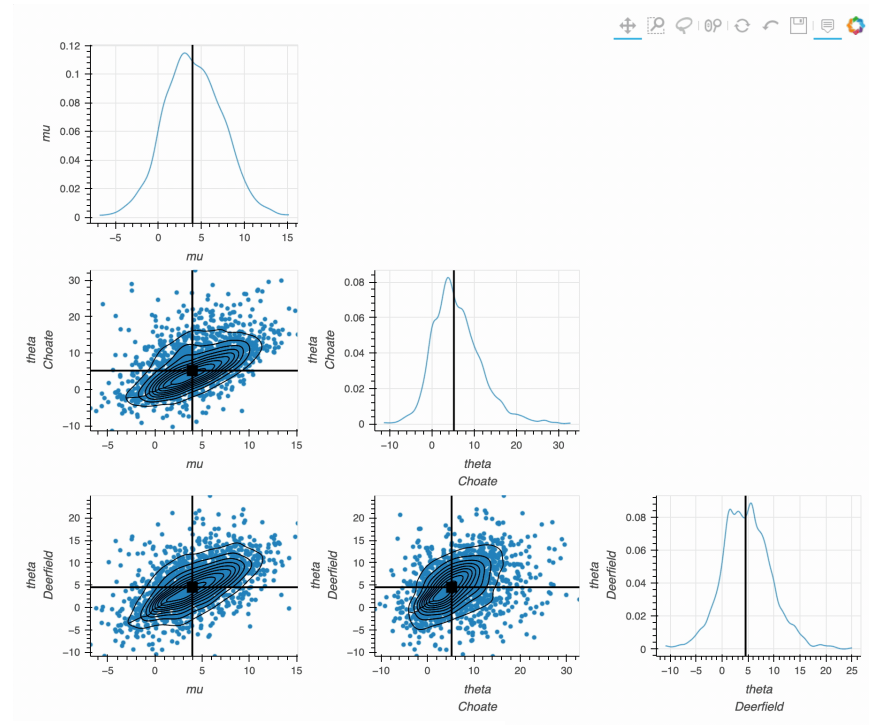
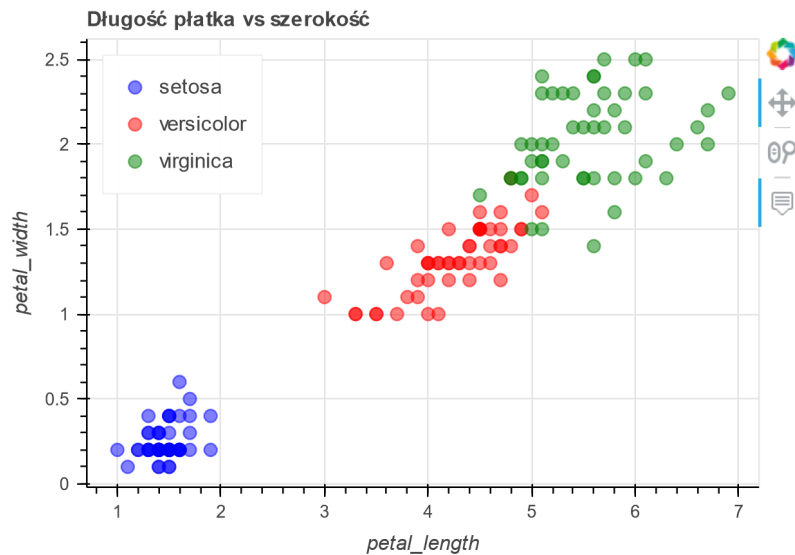
fig, ax = plt.subplots(figsize=(10,4))
sns.kdeplot(ax=ax, data=X,
            # bw_adjust=0.3,
            linewidth=2.5, fill=True)

ax.plot(X, np.zeros_like(X) + 0.01, 'o',
        markersize=6, color='black', alpha=0.6)
ax.set_xlabel('measurement', fontsize=16)
plt.show()
```



seaborn: statistical data visualization



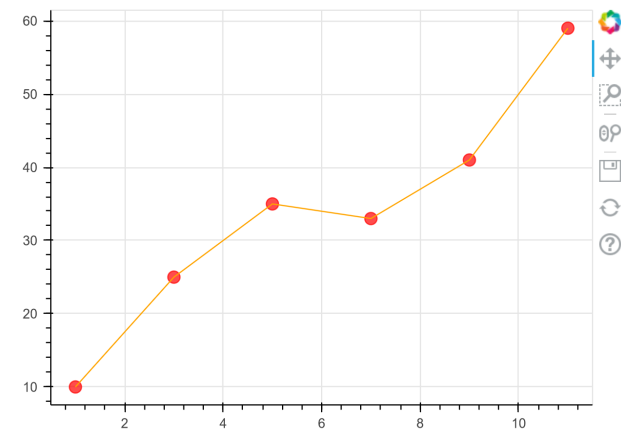


```
from bokeh.plotting import figure, output_notebook, show
```

```
x = [1, 3, 5, 7, 9, 11]
y = [10, 25, 35, 33, 41, 59]
```

```
output_notebook()
```

```
fig = figure(plot_width=500, plot_height=350)
fig.circle(x,y, size=10, color='red', alpha=0.7)
fig.line(x,y, line_width=1, color='orange')
show(fig)
```





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The Open Graph Viz Platform

Gephi is the leading visualization and exploration software for all kinds of graphs and networks. Gephi is open-source and free.

Runs on Windows, Mac OS X and Linux.

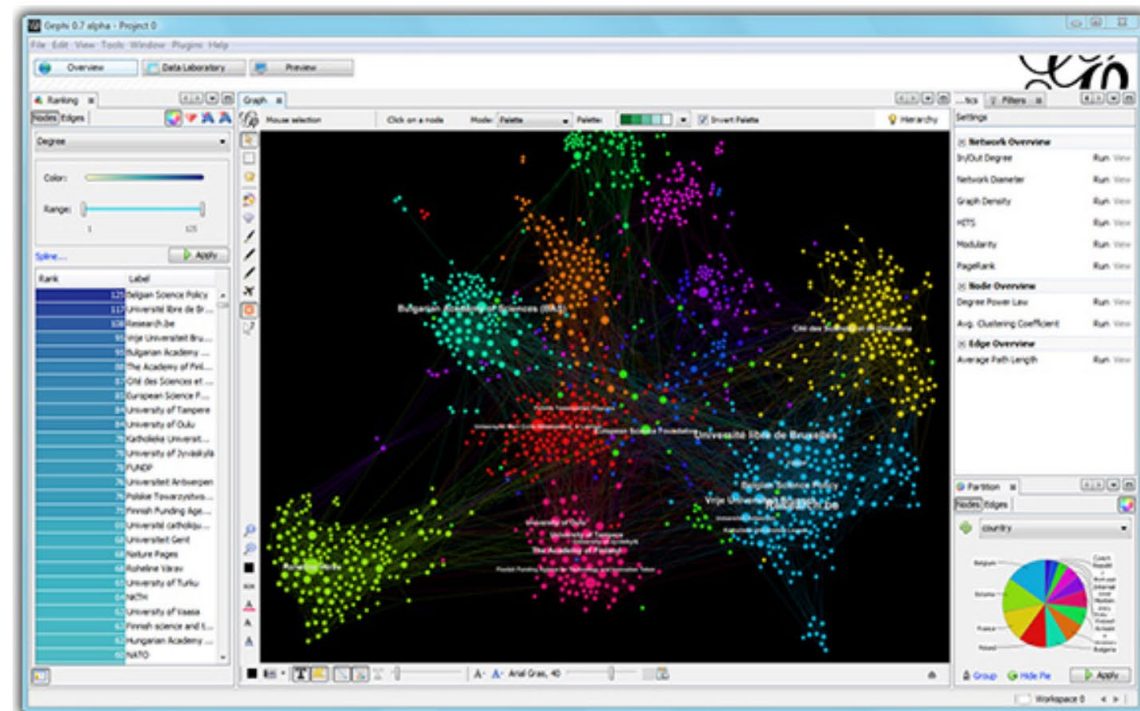
[Learn More on Gephi Platform »](#)



[Release Notes](#) | [System Requirements](#)

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from Data to Viz

What kind of data do you have? Pick the main type using the buttons below. Then let the decision tree guide you toward your graphic possibilities.

Numeric

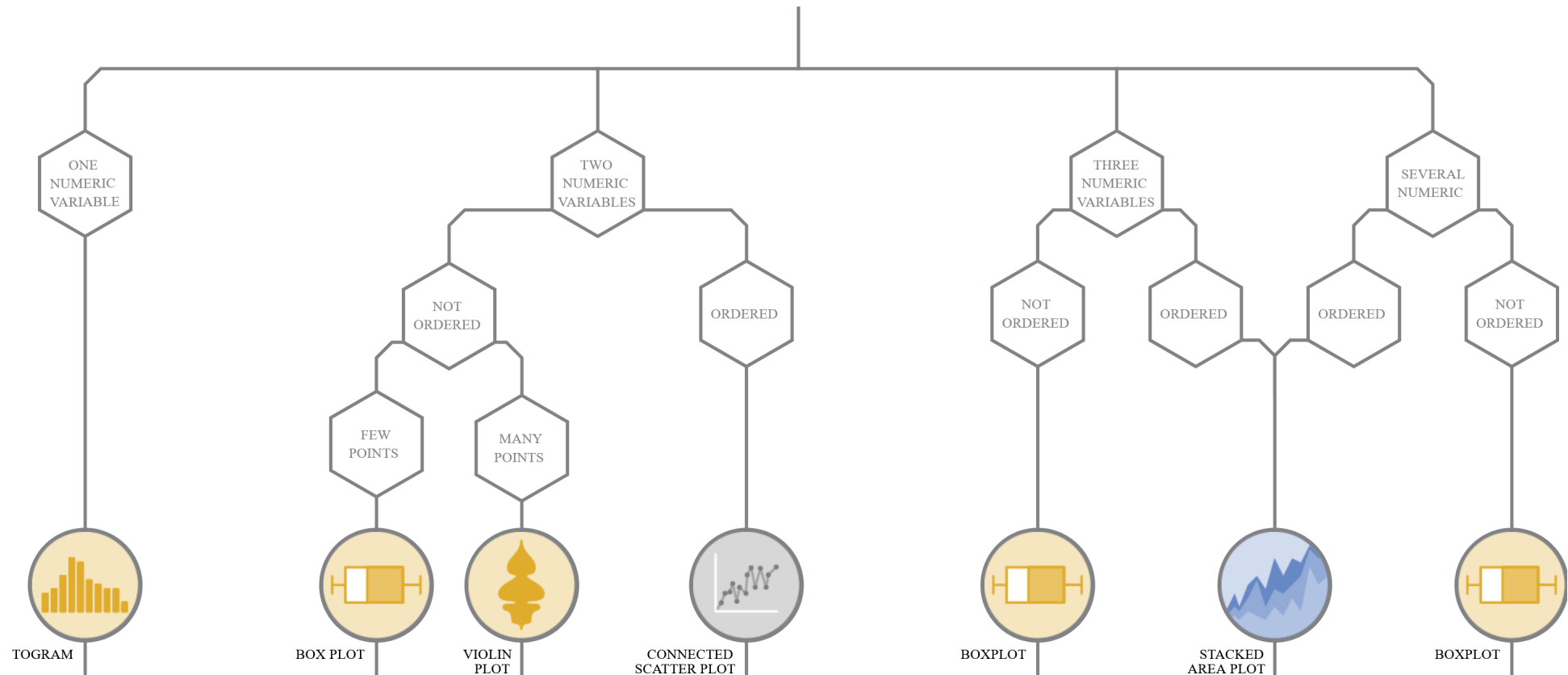
Categoric

Num & Cat

Maps

Network

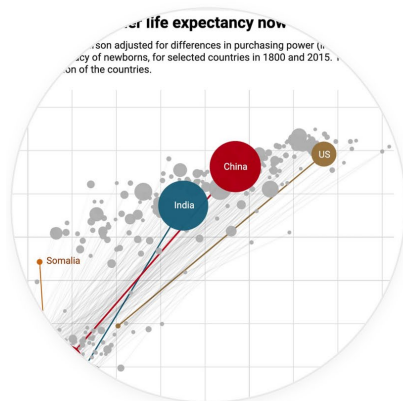
Time series



Enrich your stories with charts, maps, and tables.

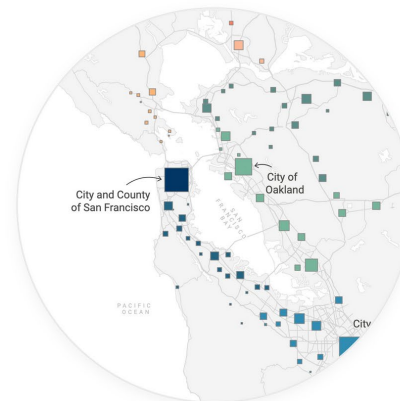
[Start creating](#)

It's free & no sign-up is required



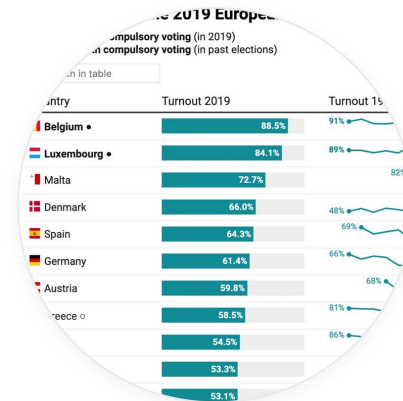
Charts

Use one of **19 interactive and responsive chart types** ranging from simple bars and lines to arrow, range, and scatter plots.



Maps

Three interactive and responsive map types let you create anything from locator maps to thematic choropleth and symbol maps.



Tables

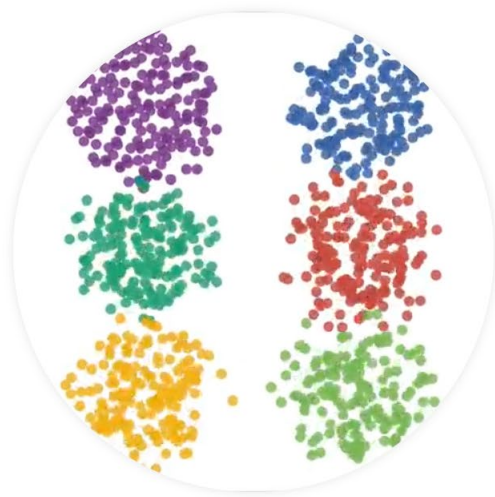
Responsive data tables allow for lots of styling options and let you include bar, column & line charts, heatmaps, images, a search bar and pagination.



Beautiful and easy
**data visualization
and storytelling**

Easily turn your data into stunning
charts, maps and interactive stories.

[View examples.](#)

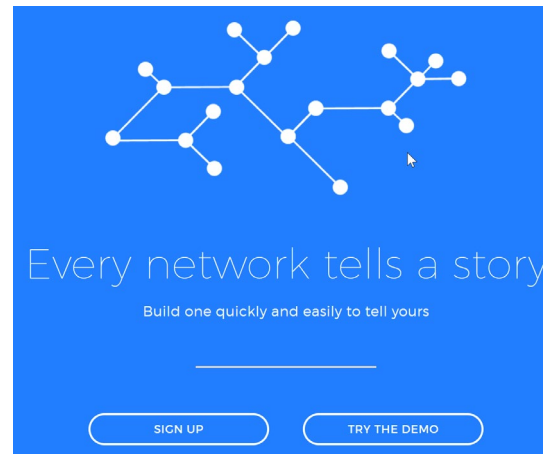


Engage your audience

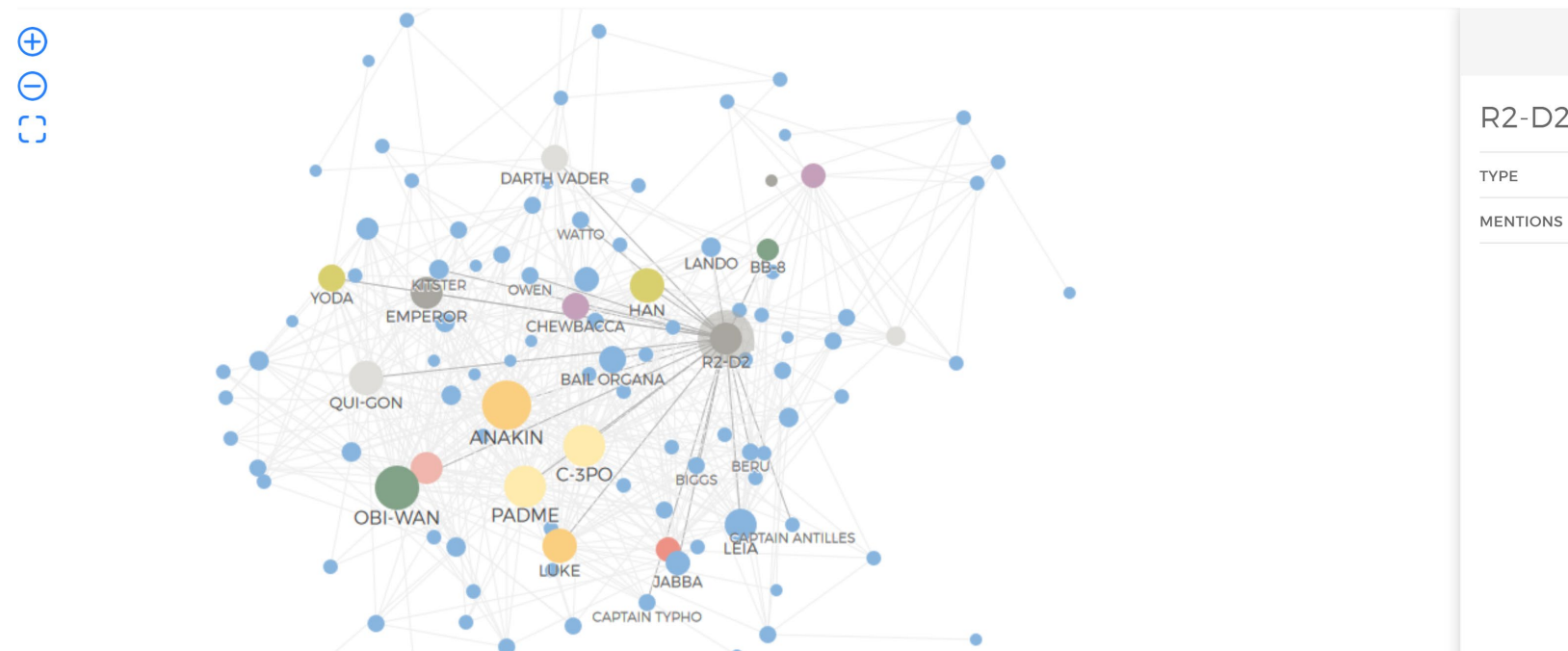
Create agency-quality data
graphics and animated stories
that bring your data to life.

A circular data visualization showing a list of film titles. The list is presented in a table format with a pink header row and a grey header row. The table is partially visible, showing the first few rows of data.

	A
1	Film
2	27 Dresses
3	(500) Days of Summer
4	A Dangerous Method
5	A Serious Man
6	Across the Universe
7	Beginners
8	Dear John
	Enchanted
	Proof
	Christmas



Star Wars Social Network





tableau⁺public

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Learn

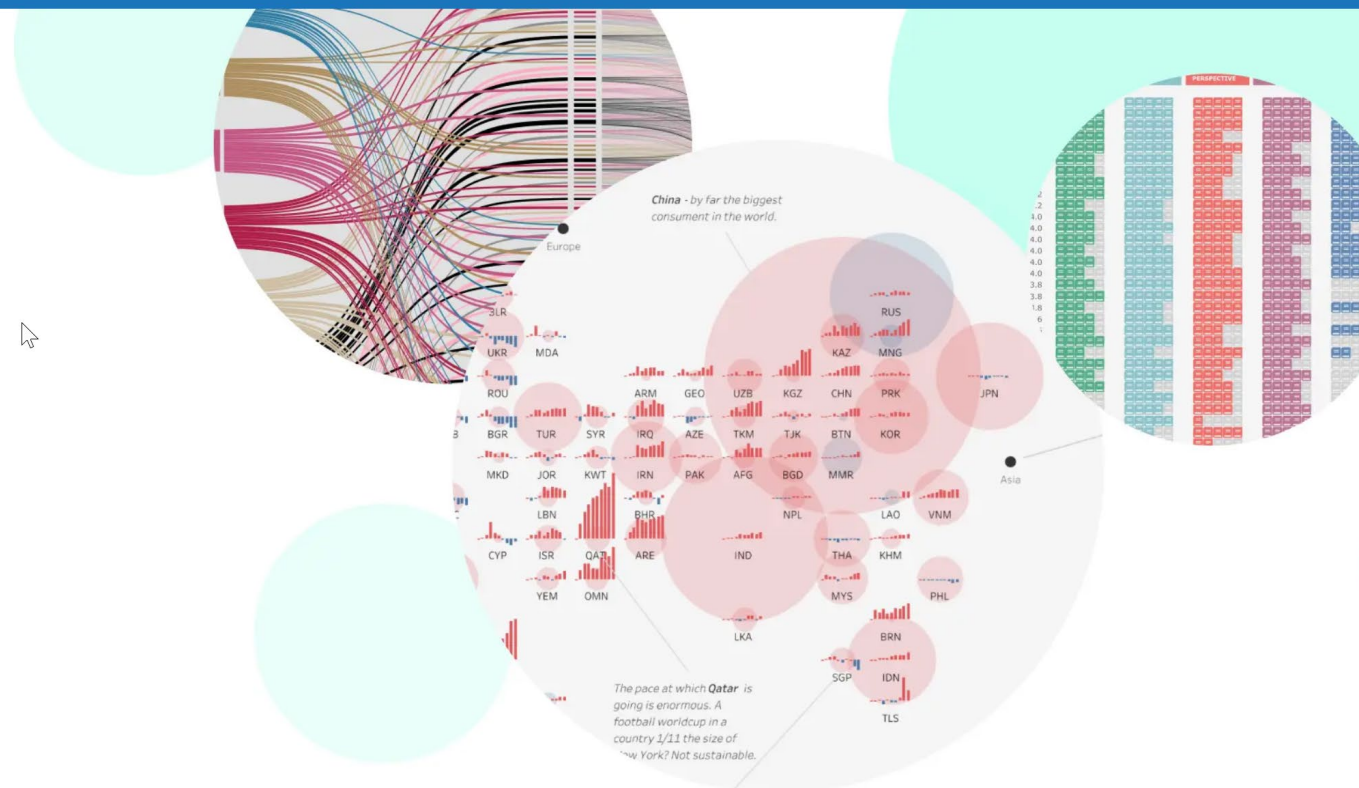
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A free platform to explore, create, and publicly share data visualizations online.

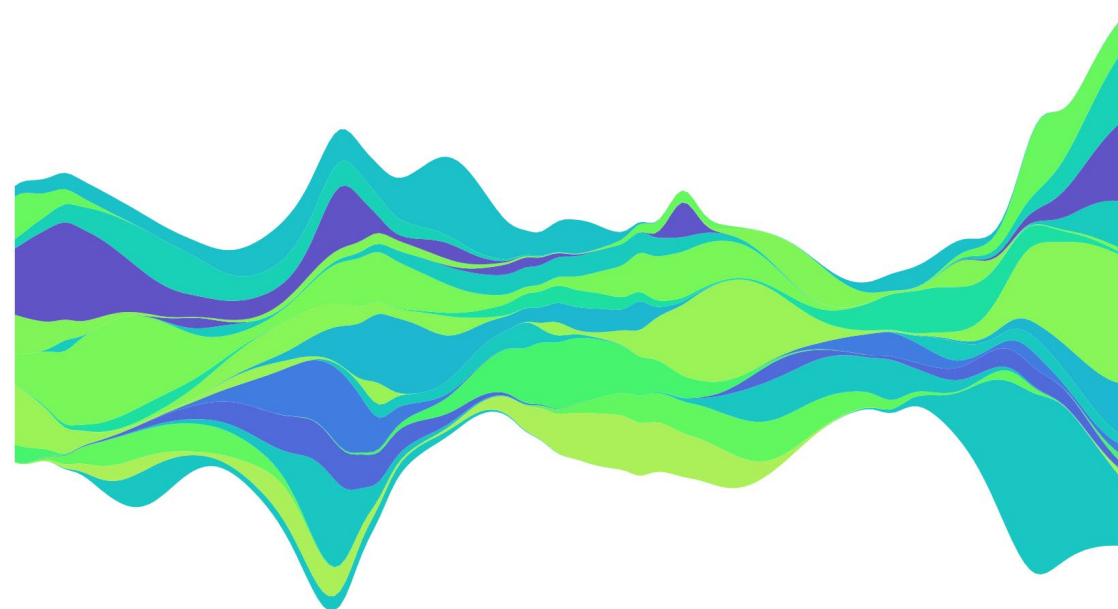
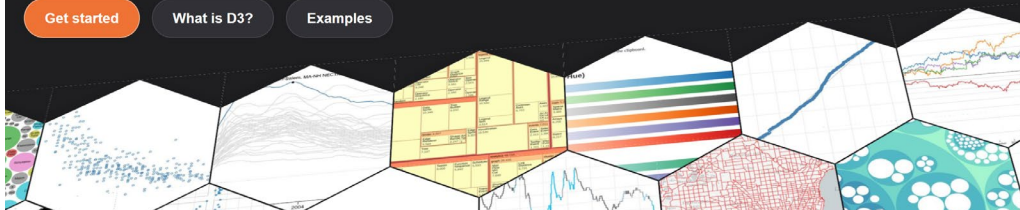
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Create custom dynamic visualizations
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```
chart = {  
  const width = 928;  
  const height = 500;  
  
  const x = d3.scaleLinear([0, m - 1], [0, width]);  
  const y = d3.scaleLinear([0, 1], [height, 0]);  
  const z = d3.interpolateCool;  
  
  const area = d3.area()  
    .x((d, i) => x(i))
```


Vega-Lite – A Grammar of Interactive Graphics

