Pokaż mi co masz!

Wstęp do wizualizacji danych z





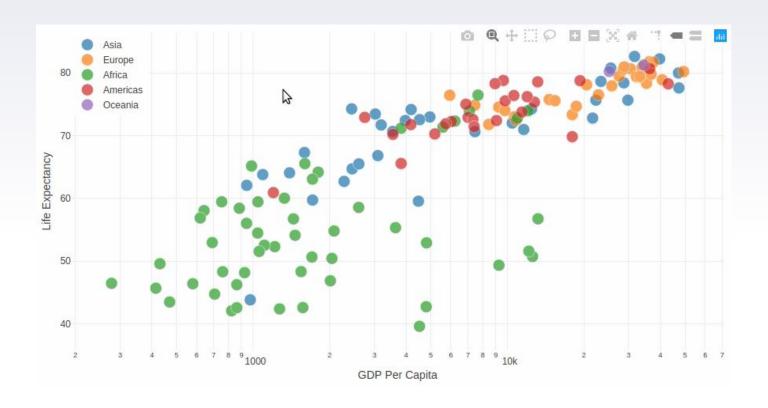
O czym my mówimy?

- Kto ma dane?
- Kto rozumie dane?
- Kto interpretuje dane?
- Czy p-value wystarczy?



```
import dash
import dash core components as dcc
import dash_html_components as html
import pandas as pd
external stylesheets = ['https://codepen.io/chriddyp/pen/bWLwgP.css']
app = dash.Dash( name , external stylesheets=external stylesheets)
df = pd.read csv('https://gist.githubusercontent.com/chriddyp/5dlea79569ed194d432e56108a04d188/raw/a
app.layout = html.Div([
    dcc.Graph(
        id='life-exp-vs-gdp',
        figure={
            'data': [
                dict(
                    x=df[df['continent'] == i]['gdp per capita'],
                    y=df[df['continent'] == i]['life expectancy'],
                    text=df[df['continent'] == i]['country'],
                    mode='markers',
                    opacity=0.7,
                    marker={
                        'size': 15,
                        'line': {'width': 0.5, 'color': 'white'}
                    },
                    name=i
                ) for i in df.continent.unique()
            'layout': dict(
                xaxis={'type': 'log', 'title': 'GDP Per Capita'},
                yaxis={'title': 'Life Expectancy'},
                margin={'l': 40, 'b': 40, 't': 10, 'r': 10},
                legend={'x': 0, 'y': 1},
                hovermode='closest'
if name == ' main ':
    app.run server(debug=True)
```







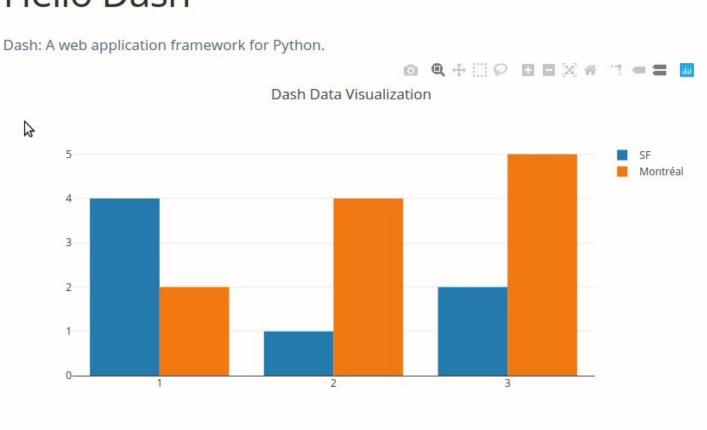
iiii plotly | Dash

- Narzędzie do budowania aplikacji webowych
- Zbudowane z wykorzystaniem:
 - Flask
 - Plotly.js
 - React.js
- Wizualizacje bez znajomości JSa
- Responsywność
- Licencja MIT
- Bezproblemowy "deploy"

```
import dash
import dash core components as dcc
import dash html components as html
external stylesheets = ['https://codepen.io/chriddyp/pen/bWLwgP.css']
app = dash.Dash( name , external stylesheets=external stylesheets)
app.layout = html.Div(children=[
   html.H1(children='Hello Dash'),
   html.Div(children='''
       Dash: A web application framework for Python.
    '''),
   dcc.Graph(
       id='example-graph',
       figure={
            'data': [
               {'x': [1, 2, 3], 'y': [4, 1, 2], 'type': 'bar', 'name': 'SF'},
               {'x': [1, 2, 3], 'y': [2, 4, 5], 'type': 'bar', 'name': u'Montréal'},
            'layout': {
               'title': 'Dash Data Visualization'
if name == ' main ':
```

app.run server(debug=True)

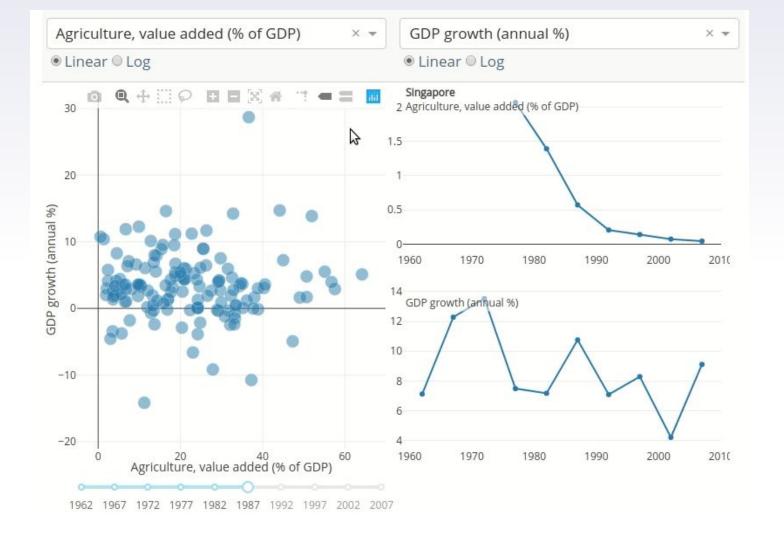
Hello Dash



Callbacks

```
from dash.dependencies import Input, Output
external stylesheets = ['https://codepen.io/chriddyp/pen/bWLwgP.css']
app = dash.Dash( name , external stylesheets=external stylesheets)
app.layout = html.Div([
    dcc.Input(id='my-id', value='initial value', type='text'),
   html.Div(id='my-div')
@app.callback(
    Output(component id='my-div', component property='children'),
    [Input(component id='my-id', component property='value')]
def update output div(input value):
    return 'You\'ve entered "{}"'.format(input value)
if name == ' main ':
    app.run server(debug=True)
```

You've entered ""



Na produkcję!

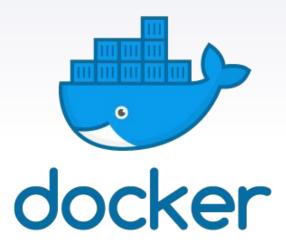






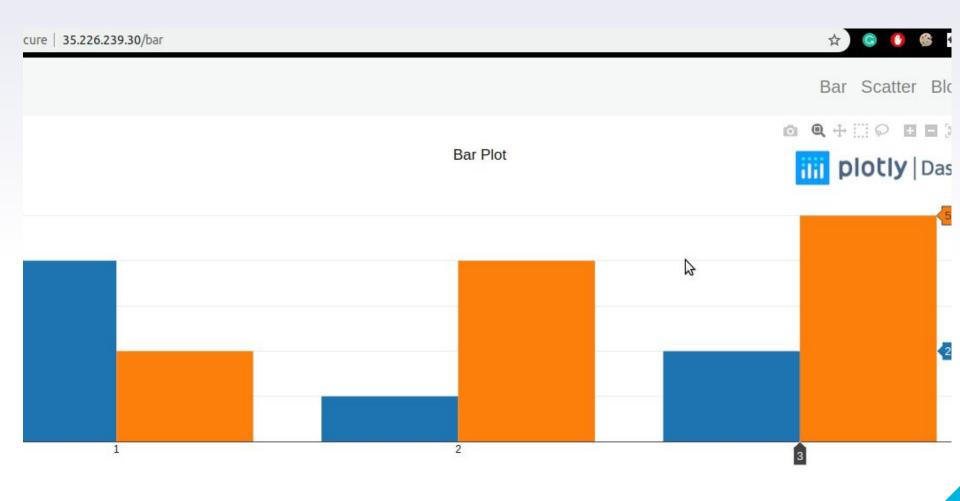






https://github.com/sladkovm/docker-flask-gunicorn-nginx

```
@app.callback(Output('page-main', 'children'), [Input('url', 'pathname')])
def routing(pathname):
    """Very basic router
    This callback function will read the current url
    and based on pathname value will populate the children of the page-main
    Returns:
        html.Div
    III III III
    app.server.logger.info(pathname)
    if pathname == '/bar':
        rv = make main(bar plot)
    elif pathname == '/scatter':
        rv = make main(scatter plot)
    else:
        rv = make main({'layout': {'title': 'empty plot: click on a Bar or Scatter link'}})
    return rv
if name == ' main ':
    app.run server(debug=True)
```



Dziękuję

Wojciech Łaguna