```
1
 2 import pandas as pd
 3 import plotly.express as px
 4 import plotly.graph_objects as go
 5 import numpy as np
6 import dash
7 from dash import dcc
8 from dash import html
9 from dash.dependencies import Input, Output #
   Wichtig für Callbacks
10
11 external_stylesheets = ['https://codepen.io/
   chriddyp/pen/bWLwqP.css']
12
13 \text{ app} = \text{dash.Dash}(\_\_\text{name}\_\_,
   external_stylesheets=external_stylesheets)
14
15 df = pd.read_csv(r'.\Summer-Olympic-medals-
   1976-to-2008.csv', encoding="utf-8")
16 df1 = pd.read_csv(r'.\summary.csv', encoding=
   "utf-8") #Zusammenfassung des grossen
   Datensatzes
17 #df.info()
18 #df1.info()
19
20 colors = {
21
       'background': '#F0F8FF',
       'text': '#00008B'
22
23 }
24
25 # #Funktionnierender Plot für Tests
26 # fig = px.bar(df1, x=df1['Year'], y=[df1['Year']]
   Bronze'], df1['Silver'], df1['Gold']],
   color_discrete_map={'Bronze': 'orange',
   Silver': 'silver', 'Gold': 'gold'}, title="By
```

```
26 Country")
27
28 app.layout = html.Div([
29
       html.H1('Oympics', style = {'text-align':
   'center'}),
30
31
       html.Div(
32
           html.Img(src='https://upload.
   wikimedia.org/wikipedia/commons/thumb/5/5c/
   Olympic_rings_without_rims.svg/1920px-
   Olympic_rings_without_rims.svq.png', width=120
   , alt="Olympic Rings"), style = {'text-align'
   :'center'}
33
       ),
34
35
       html.Div(
           "Dashboard by Brunold & Rusconi"
36
37
       ),
38
       html.Br(),
39
40
41
       #Dropdown
       dcc.Dropdown(id='dropdownCountry',
42
43
                     options = [{'label': i, '
   value': i} for i in df1['Country'].unique()],
44
                     multi = False,
45
                     value = 'Switzerland',
                     style = {"width": "40%"}
46
47
                     ),
48
49
       dcc.Graph(id='countryplot', figure
    = {}), #Plot abbilden. in {} kommt der
   Return von der Callback-Funktion
50
51 # Plot ohne Dropdown und Callback zum
```

```
51 Schauen ob Plots sauber abgebildet werden
52
     # dcc.Graph(
            id='example-graph',
53
     # figure=fig
54
     # )
55
56 ])
57
58 #Callback (Raffi)
59 @app.callback(
60
       [Output(component_id='countryplot',
   component_property='figure')], #Es kommt das
    angepasste Diagramm raus
       [Input(component_id='dropdownCountry',
61
   component_property='value')] #Es kommt die
  Auswahl vom Dropdown rein
62)
63 def update_graph(option_slctd):
       dff = df1.copy()
64
       dff = dff[dff["Country"] == option_slctd]
65
66 #Plotly Express (Diagramm definieren)
       fig = px.bar(dff, x='Year', y=['Bronze',
67
   'Silver', 'Gold'],
68
                    color_discrete_map={'Bronze'
   : 'orange', 'Silver': 'silver', 'Gold': 'gold
   '},
69
                    labels=dict(value="Number of
    medals won", year="Year", variable="Medal"),
                    title="Medals won by
70
   selected country")
       fig.update_xaxes(
71
72
           dtick=4)
73
       return fig,
74
75
76 if __name__ == '__main__':
```

77	app.run_server(debug= <b>True</b> )