

Experimentieren mit Plotly

Import Data

```
[1] import pandas as pd

df = pd.read_csv('C:/Users/adm-mlung/Desktop/Projekte/Secrets/data/Umsatz
```

Pie chart for categories

Vorbereitungen

```
[2] Einnahmen = df[df['Betrag']>0].copy()
Ausgaben = df[df['Betrag']<0].copy()

labels_Einnahmen = list(set(Einnahmen.Category))
labels_Ausgaben = list(set(Ausgaben.Category))

values_Einnahmen = [sum(Einnahmen[Einnahmen['Category']==labels_Einnahmen
values_Ausgaben = [-1*sum(Ausgaben[Ausgaben['Category']==labels_Ausgaben[
```

```
[3] values_Einnahmen
```

```
[19412.35, 2930.0, 4874.02, 15789.48]
```

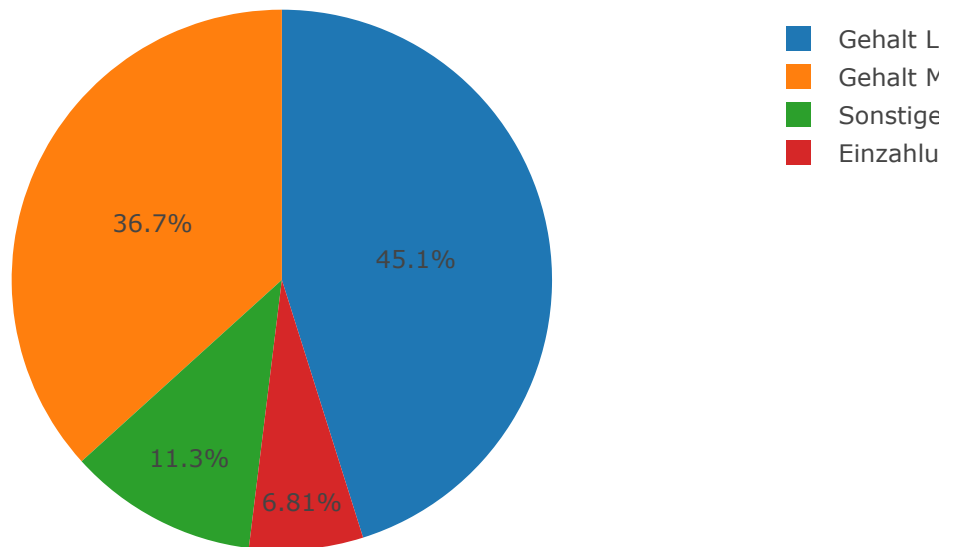
Plotting Einnahmen

```
[4] from plotly.offline import download_plotlyjs, init_notebook_mode, plot, i
import plotly.graph_objs as go

labels = labels_Einnahmen
values = values_Einnahmen
```

```
trace = go.Pie(labels=labels, values=values)

iplot([trace], filename='basic_pie_chart')
```

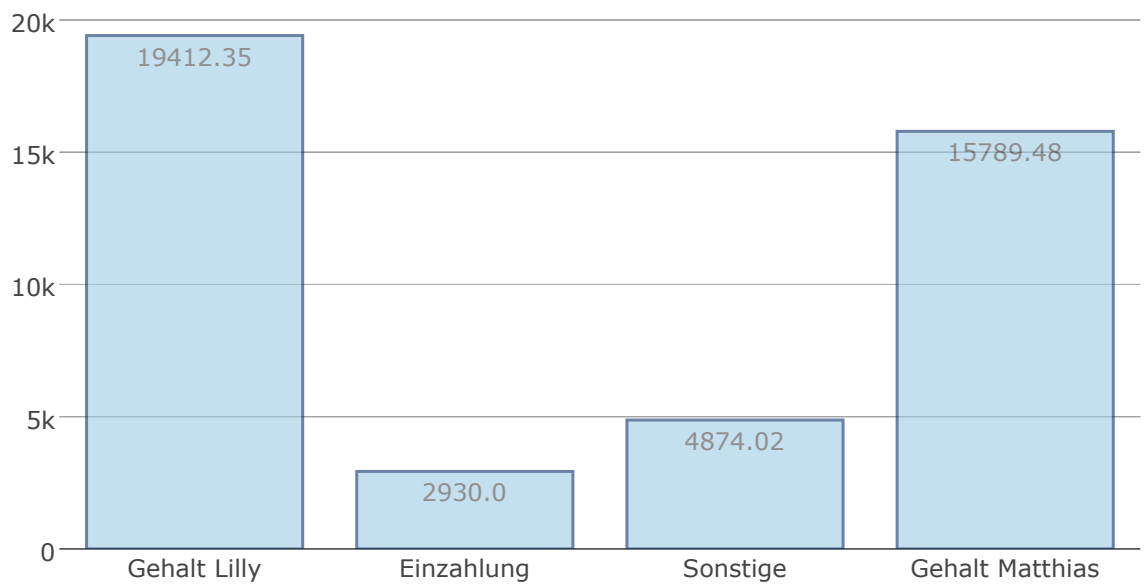


```
[5] import plotly.plotly as py
import plotly.graph_objs as go

x = labels_Einnahmen
y = values_Einnahmen

data = [go.Bar(
    x=x,
    y=y,
    text=y,
    textposition = 'auto',
    marker=dict(
        color='rgb(158,202,225)',
        line=dict(
            color='rgb(8,48,107)',
            width=1.5),
    ),
    opacity=0.6
)]

iplot(data, filename='bar-direct-labels')
```



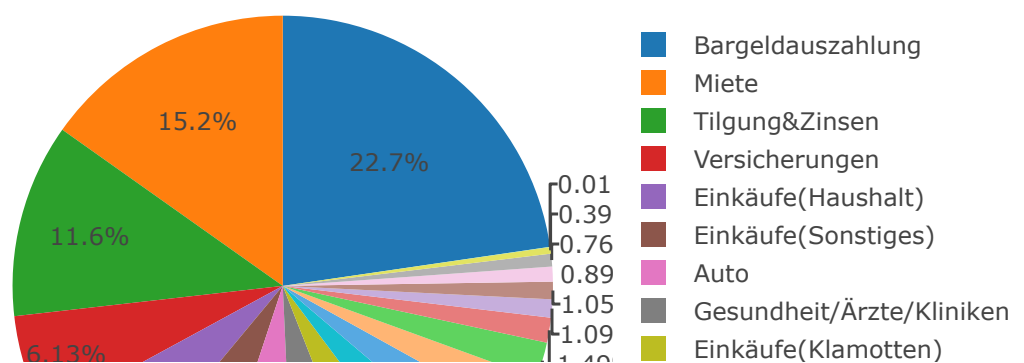
Plotting Ausgaben

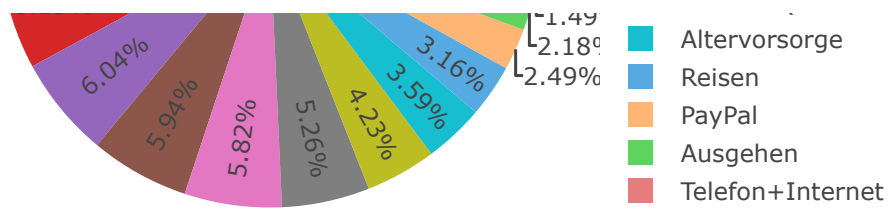
```
[6] import plotly.plotly as py
import plotly.graph_objs as go

labels = labels_Ausgaben
values = values_Ausgaben

trace = go.Pie(labels=labels, values=values)

iplot([trace], filename='basic_pie_chart')
```





```
[7] import plotly.plotly as py
import plotly.graph_objs as go

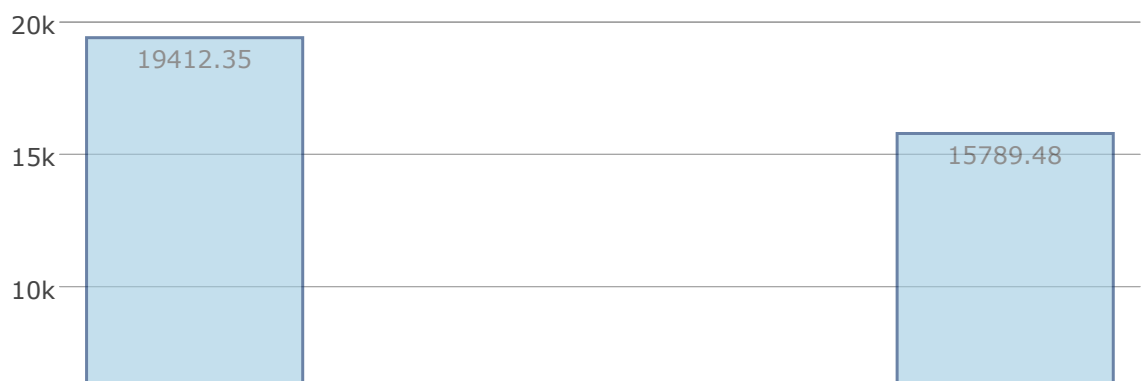
x = labels_Ausgaben
y = [round(y) for y in values_Ausgaben]

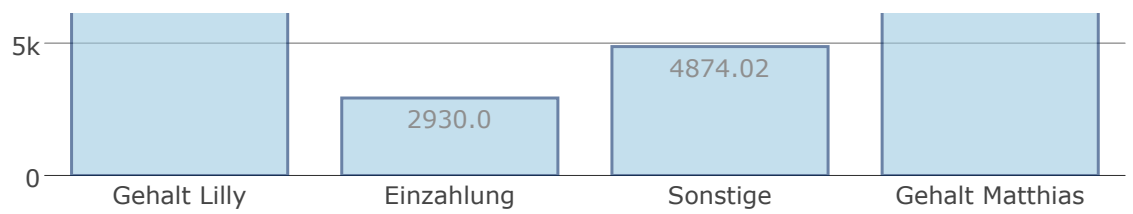
fig = go.Figure()

#data = [go.Bar(
#    x=x,
#    y=y,
#    text=y,
#    textposition = 'auto',
#    marker=dict(
#        color='rgb(158,202,225)',
#        line=dict(
#            color='rgb(8,48,107)',
#            width=1.5),
#    ),
#    opacity=0.6
#)]

fig.add_bar(x=x,y=y,text=y,textposition = 'auto',marker=dict(color='rgb(158,202,225)',line=dict(color='rgb(8,48,107)',width=1.5),opacity=0.6))

iplot(data, filename='bar-direct-labels')
```





```
[8] import plotly.io as pio
```

```
pio.write_image(fig, 'C:/Users/adm-mlung/Desktop/Projekte/Secrets/plots/A
```

```
[9] type(data[0])
```

```
plotly.graph_objs._bar.Bar
```

```
[10] import plotly
```

```
plotly.__version__
```

```
'3.4.2'
```