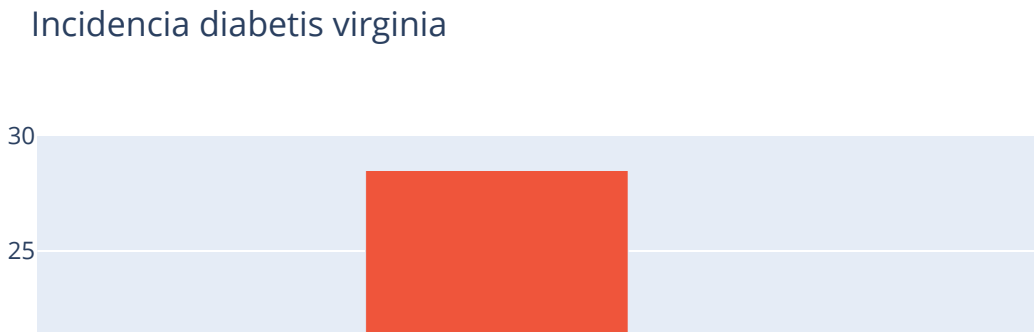
In [1]:
```
import plotly.graph_objects as go

fig = go.Figure()
```

In [2]:
```
import plotly.graph_objects as go
#import plotly.io as pio
#pio.renderers.default = "browser" ----- Importante para jupiter
# ---------------------------- Datos


zona = ['Europa', 'África', 'América Nort', 'América Cent',
'América Sur','Asia', 'Oceanía']
hombres = [39.57, 28.11, 3, 1.51, 22.22, 5.47, 0.11]
mujeres = [41.9, 14.89, 6.22, 1.85, 30.23, 4.78, 0.12]


total = [round((x + y)/2, 2) for x, y in zip(hombres, mujeres)]
print(total)
```

```
[40.73, 21.5, 4.61, 1.68, 26.23, 5.12, 0.11]
```

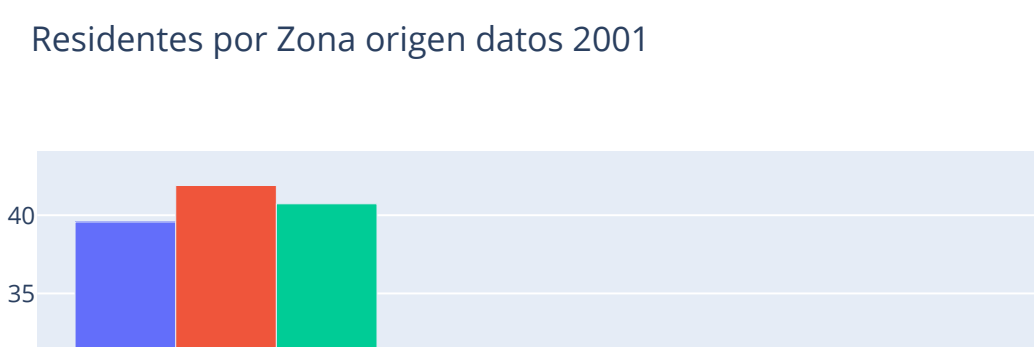
In [3]:
```
fig = go.Figure()
# Create and style traces
# dash options include 'dash', 'dot', and 'dashdot'


fig.add_trace(go.Scatter(x=zona, y=hombres, name='Hombres',
                         line=dict(color='firebrick', width=2,
                         dash='dot')))
fig.add_trace(go.Scatter(x=zona, y=mujeres, name = 'Mujeres',
                         line=dict(color='royalblue', width=2)))
fig.add_trace(go.Scatter(x=zona, y=total, name='Total',
                         line=dict(color='firebrick', width=2, dash='dash')))
# Edit the layout

fig.update_layout(title='Residentes por Zona origen datos 2001',
xaxis_title='Zona',
yaxis_title='Personas')

fig.show()
```

In [4]:
```
import plotly.graph_objects as go

area=['WestTidewater', 'Virginia', 'Nth Carolina','United States']
fig = go.Figure(data=[
        go.Bar(name='% diabetis', x=area, y=[18.4, 10.4, 10.7, 13.3]),
        go.Bar(name='death rate', x=area, y=[28.5, 19.6, 23.0, 21.1])])


#revisar per posar llegenda
# Edit the layout
fig.update_layout(title='Incidencia diabetis virginia',
                  xaxis_title='area',
                  yaxis_title='% diabetis')



# Change the bar mode
fig.update_layout(barmode='group')
fig.show()
```

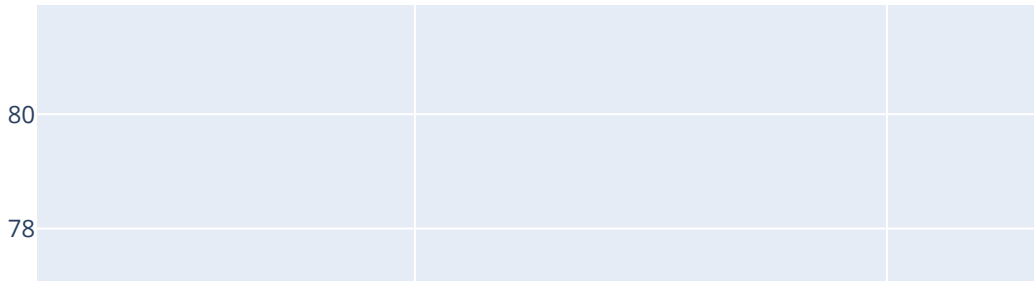


In [5]:
```
import plotly.graph_objects as go

labels = ['Oxygen','Hydrogen','Carbon_Dioxide','Nitrogen']
values = [4500, 2500, 1053, 500]

fig = go.Figure(data=[go.Pie(labels=labels, values=values,
                             textinfo='label+percent', insidetextorientation='radial')])
fig.show()
```

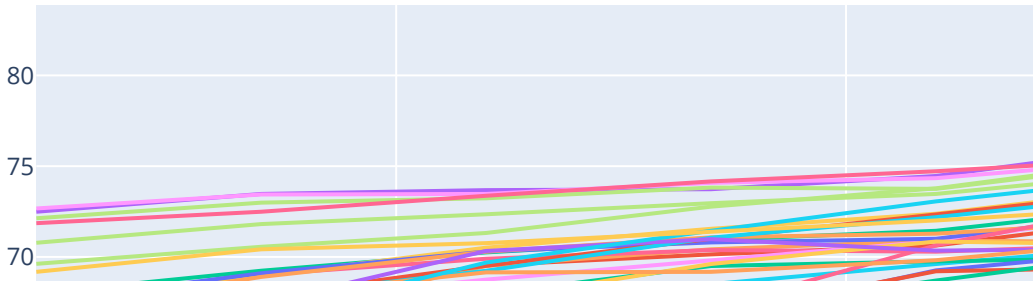
In [6]:
```
fig = go.Figure()
# Create and style traces
# dash options include 'dash', 'dot', and 'dashdot'

zona = ['Europa', 'África', 'América Nort', 'América Cent','América Sur','Asia', 'O
total = [round((x + y)/2, 2) for x, y in zip(hombres, mujeres)]

fig = go.Figure(data=[
        go.Bar(name='hombres', x=zona, y=[39.57, 28.11, 3, 1.51, 22.22, 5.47, 0.11
        go.Bar(name='mujeres', x=zona, y=[41.9, 14.89, 6.22, 1.85, 30.23, 4.78, 0.
        go.Bar(name='total', x=zona, y=total)])

# fig.add_trace(go.Bar(x=zona, y=hombres, name='Hombres',
#                         line=dict(color='firebrick', width=2,
#                         dash='dot')))
# fig.add_trace(go.Scatter(x=zona, y=mujeres, name = 'Mujeres',
#                         line=dict(color='royalblue', width=2)))
# fig.add_trace(go.Scatter(x=zona, y=total, name='Total',
#                         line=dict(color='firebrick', width=2, dash='dash')))
# Edit the layout

# fig.update_layout(title='Residentes por Zona origen datos 2001',
# xaxis_title='Zona',
# yaxis_title='Personas')

# fig.show()
fig.update_layout(title='Residentes por Zona origen datos 2001',
xaxis_title='Zona',
yaxis_title='Personas')

fig.show()
```



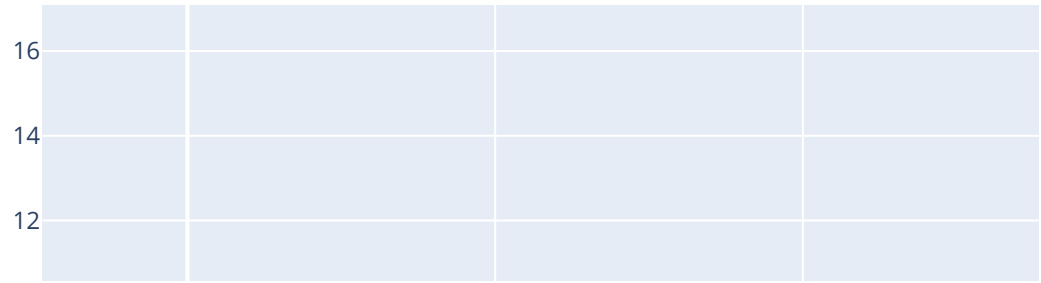
In [7]:
```
import plotly.express as px

df = px.data.gapminder().query("country=='Canada'")
df = px.data.gapminder().query("continent=='Oceania'")
fig = px.line(df, x="year", y="lifeExp", title='Life expectancy in Canada')
fig = px.line(df, x="year", y="lifeExp", color='country')
fig.show()
```



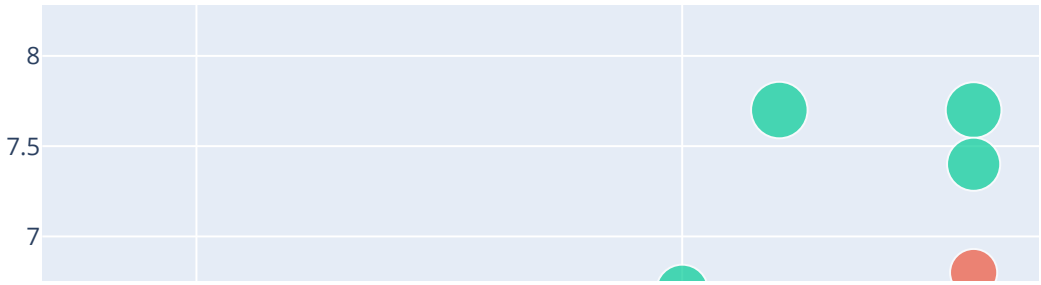
In [8]:
```
df = px.data.gapminder().query("continent=='Europe'")
fig = px.line(df, x="year", y="lifeExp", color='country')
fig.show()
```



In [9]:
```
# x and y given as array_like objects
import plotly.express as px
fig = px.scatter(x=[0, 1, 2, 3, 4], y=[0, 1, 4, 9, 16])
fig.show()
```



In [10]:
```
import plotly.express as px
df = px.data.iris()
fig = px.scatter(df, x="sepal_width", y="sepal_length", color="species",
                 size='petal_length', hover_data=['petal_width'])
fig.show()
print (df)
```


8
7.5
7

```
     sepal_length  sepal_width  petal_length  petal_width    species  \
0             5.1          3.5           1.4          0.2     setosa
1             4.9          3.0           1.4          0.2     setosa
2             4.7          3.2           1.3          0.2     setosa
3             4.6          3.1           1.5          0.2     setosa
4             5.0          3.6           1.4          0.2     setosa
..            ...          ...           ...          ...        ...
145           6.7          3.0           5.2          2.3  virginica
146           6.3          2.5           5.0          1.9  virginica
147           6.5          3.0           5.2          2.0  virginica
148           6.2          3.4           5.4          2.3  virginica
149           5.9          3.0           5.1          1.8  virginica

     species_id
0             1
1             1
2             1
3             1
4             1
..          ...
145           3
146           3
147           3
148           3
149           3

[150 rows x 6 columns]
```

In [ ]: