Importar librerías

import pandas as pd
from google.colab import files
import matplotlib.pyplot as plt

→ Subir archivo csv

file=files.upload()

Choose Files No file chosen Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable.

Saving macroplastics-in-ocean.csv to macroplastics-in-ocean.csv

Saving microplastics-in-ocean.csv to microplastics-in-ocean.csv

▼ Leer Dataset

```
df1=pd.read_csv("macroplastics-in-ocean.csv")
df2=pd.read_csv("microplastics-in-ocean.csv")
```

▼ Mostrar encabezados del dataset

df1.head()

	Entity	Code	Year	Accumulated ocean plastic: Macroplastics (>0.5cm)
0	Emissions growth to 2050	NaN	1950	0
1	Emissions growth to 2050	NaN	1951	400
2	Emissions growth to 2050	NaN	1952	600
3	Emissions growth to 2050	NaN	1953	1000
4	Emissions growth to 2050	NaN	1954	1300

df2.head()

		Entity	Code	Year	Accumulated ocean plastic: Microplastics (<0.	.5cm)
	0	Emissions growth to 2050	NaN	1950		0
	1	Emissions growth to 2050	NaN	1951		0
	2	Emissions growth to 2050	NaN	1952		0
	3	Fmissions arowth to 2050	NaN	1053		Λ
_		, ,			ocean plastic: Macroplastics (>0.5cm)"]] ocean plastic: Microplastics (<0.5cm)"]]	

Obtener información del dataset

```
new_df1.info()
    <class 'pandas.core.frame.DataFrame'>
    RangeIndex: 303 entries, 0 to 302
    Data columns (total 3 columns):
         Column
                                                           Non-Null Count Dtype
        -----
                                                            -----
     0
         Entity
                                                           303 non-null
                                                                           object
     1
         Year
                                                           303 non-null
                                                                           int64
         Accumulated ocean plastic: Macroplastics (>0.5cm) 303 non-null
                                                                           int64
    dtypes: int64(2), object(1)
    memory usage: 7.2+ KB
new df2.info()
    <class 'pandas.core.frame.DataFrame'>
    RangeIndex: 303 entries, 0 to 302
    Data columns (total 3 columns):
                                                           Non-Null Count Dtype
         Column
     --- -----
                                                            _____
         Entity
                                                           303 non-null
                                                                           object
     1
                                                           303 non-null
                                                                           int64
         Accumulated ocean plastic: Microplastics (<0.5cm) 303 non-null
                                                                           int64
    dtypes: int64(2), object(1)
    memory usage: 7.2+ KB
```

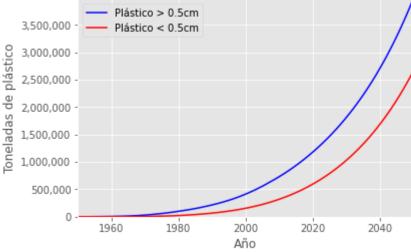
Verificar que no haya datos faltantes

▼ Recortar dataset

```
new_df_1=new_df1[new_df1.Entity=="Emissions growth to 2050"]
new df 2=new df2[new df2.Entity=="Emissions growth to 2050"]
```

→ Graficar datos

```
plt.style.use("ggplot")
fig,ax=plt.subplots()
ax.plot(new_df_1["Year"],new_df_1["Accumulated ocean plastic: Macroplastics (>0.5cm)"],color=
ax.plot(new_df_2["Year"],new_df_2["Accumulated ocean plastic: Microplastics (<0.5cm)"],color=</pre>
ax.set title("Plástico en el océano para el 2050")
ax.legend()
ax.set xlabel("Año")
ax.set_ylabel("Toneladas de plástico")
ax.set_xlim(new_df_1["Year"].min(),new_df_1["Year"].max())
ax.set ylim([0,new df 1["Accumulated ocean plastic: Macroplastics (>0.5cm)"].max()])
valores_con_comas = plt.gca().get_yticks()
plt.gca().set_yticklabels(['{:,.0f}'.format(x) for x in valores_con_comas])
     [Text(0, 0, '0'),
      Text(0, 0, '500,000'),
      Text(0, 0, '1,000,000'),
      Text(0, 0, '1,500,000'),
      Text(0, 0, '2,000,000'),
      Text(0, 0, '2,500,000'),
      Text(0, 0, '3,000,000'),
      Text(0, 0, '3,500,000'),
      Text(0, 0, '4,000,000')]
                     Plástico en el océano para el 2050
```



suma=new_df_1["Accumulated ocean plastic: Macroplastics (>0.5cm)"].max()+new_df_2["Accumulate

suma

6624600

×