

# Sankey diagrams (fluxos migratoris entre païssos)

## Importem les llibreries

```
In [ ]: import plotly.graph_objects as go
import matplotlib.pyplot as plt
```

## Creem les dades

```
In [ ]: etiquetes = ["Brasil", "Mèxic", "USA", "Canadà", "Portugal", "Espanya", "UK", "França",
index = [0, 1, 2, 3, 4, 5, 6, 7,
origen = [0, 1, 2, 3, 0, 1, 2, 3, 0, 1, 2, 3, 0, 1, 2, 3,
4, 5, 6, 7, 4, 5, 6, 7, 4, 5, 6, 7, 4, 5, 6, 7,
8, 9, 10, 11, 12, 8, 9, 10, 11, 12, 8, 9, 10, 11, 12, 8, 9, 10, 11, 12,
desti = [4, 4, 4, 4, 5, 5, 5, 5, 6, 6, 6, 6, 7, 7, 7, 7,
8, 8, 8, 8, 9, 9, 9, 9, 10, 10, 10, 10, 11, 11, 11, 11, 12, 12, 12,
13, 13, 13, 14, 14, 14, 15, 15, 15]
valors = [7, 4, 1, 1, 1, 5, 1, 2, 1, 1, 5, 1, 1, 2, 1, 5,
3, 1, 2, 2, 0, 1, 3, 1, 0, 0, 1, 2, 1, 4, 0, 1, 3, 2, 1, 3,
3, 3, 2, 5, 3, 1, 5, 3, 1, 5, 3, 2, 5, 3, 1]
```

## Imprimim el diagrama de Sankey

```
In [ ]: fig = go.Figure(go.Sankey(
    node=dict(
        pad=15,
        thickness=20,
        line=dict(color="black", width=0.5),
        label=etiquetes,
    ),
    link=dict(
        source=origen,
        target=desti,
        value=valors
    )
))

# Poso un títol al gràfic i l'ajusto per a que quedi centrat
fig.update_layout(title="Flux migratori entre païssos", title_x=0.5, width=600, height=600)

# Mostro el gràfic
fig.show()
```

## Flux migratori entre païssos

