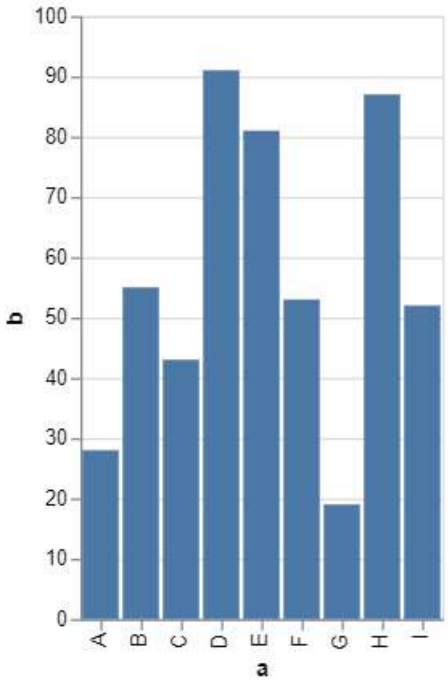
In [6]:
```
import altair as alt
import pandas as pd
import numpy as np
from vega_datasets import data
```

Barras .mark_bar()

In [4]:
```
df = pd.DataFrame({
    'a': ['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I'],
    'b': [28, 55, 43, 91, 81, 53, 19, 87, 52]
})
```

In [5]:
```
alt.Chart(df).mark_bar().encode(
    x='a',
    y='b'
)
```

Out[5]:



Heatmap .mark_rect()

In [7]:
```
x, y = np.meshgrid(range(-5, 5), range(-5, 5))
z = x ** 2 + y ** 2

df = pd.DataFrame({'x': x.ravel(),
                   'y': y.ravel(),
                   'z': z.ravel()})
```

In [14]:
```
alt.Chart(df).mark_rect().encode(
    x='x:O',
    y='y:O',
    color='z:Q'
)
```

Out[14]: