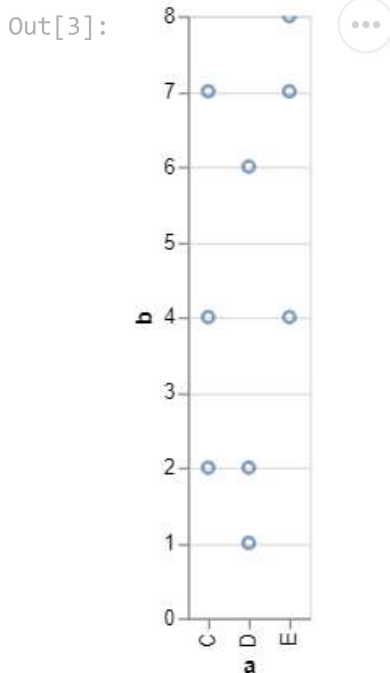


```
In [1]: import altair as alt
import pandas as pd
from vega_datasets import data
```

```
In [2]: df = pd.DataFrame({'a': list('CCDDDEEE'),
                           'b': [2, 7, 4, 1, 2, 6, 8, 4, 7]})
chart = alt.Chart(df)
```

Interactive adiciona zoom

```
In [3]: alt.Chart(df).mark_point().encode(
        x='a',
        y='b'
    ).interactive()
```



Podemos deixar melhor os gráficos, passando tipos e etc

```
In [4]: alt.Chart(df).mark_bar().encode(
        alt.Y('a', type='nominal'),
        alt.X('b', type='quantitative', aggregate='average',
              title='Média de B por categoria')
    )
```



```
In [5]: alt.Chart(df).mark_bar(color='purple').encode(
        alt.Y('a', type='nominal'),
        alt.X('b', type='quantitative', aggregate='sum')
    )
```

