```
import pandas as pd
import matplotlib.pyplot as ploteo
import seaborn as sea
import re
import numpy as np
from sklearn import tree
from sklearn.model_selection import train_test_split

%matplotlib inline
sea.set()
```

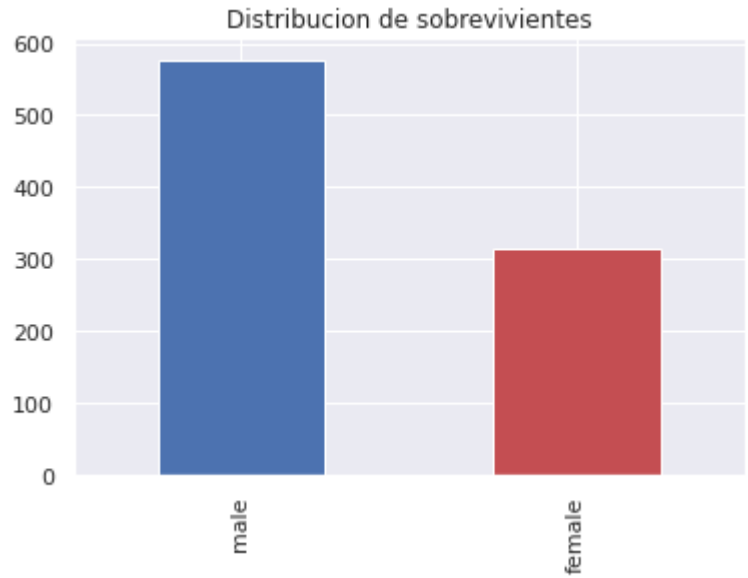
```
prueba_dataframe = pd.read_csv('titanic-test.csv')
entrenamiento_dataframe = pd.read_csv('titanic-train.csv')
entrenamiento_dataframe.head()
```

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	NaN	S
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	1	0	PC 17599	71.2833	C85	C
2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250	NaN	S
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May	female	35.0	1	0	113803	53.1000	C123	S

```
entrenamiento_dataframe.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 891 entries, 0 to 890
Data columns (total 12 columns):
 #   Column       Non-Null Count  Dtype  
---  ------       --------------  -----  
 0   PassengerId  891 non-null    int64  
 1   Survived     891 non-null    int64  
 2   Pclass       891 non-null    int64  
 3   Name         891 non-null    object 
 4   Sex          891 non-null    object 
 5   Age          714 non-null    float64
 6   SibSp        891 non-null    int64  
 7   Parch        891 non-null    int64  
 8   Ticket       891 non-null    object 
 9   Fare         891 non-null    float64
 10  Cabin        204 non-null    object 
 11  Embarked     889 non-null    object 
dtypes: float64(2), int64(5), object(5)
memory usage: 83.7+ KB
```

```
entrenamiento_dataframe.Sex.value_counts().plot(kind = 'bar', color = ['b', 'r'])
plt.title('Distribucion de sobrevivientes')
plt.show()
```


Distribucion de sobrevivientes
600
500
400
300
200
100
0
male
female