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# SHARKS

¿Hay una correlación entre mes del año, N° muertes y hemisferio?

# Primera Limpieza

---

```
df.isna().sum()
```

```
del df['Unnamed: 22']
```

```
del df['Unnamed: 23']
```

```
df.drop_duplicates()
```

```
df.drop_duplicates(subset=['Case Number'],  
inplace=True)
```

# Nombres y Países

---

```
df2 = df[['Date', 'Country', 'Sex ', 'Fatal (Y/N)',  
         'Activity']]
```

```
df2["Fatal"].fillna("U", inplace = True)
```

```
df2.dropna(subset=['Country'], inplace=True)
```

```
countries = df2["Country"].unique()
```

```
sum(df2['Country'].value_counts()==1)
```

# Limpieza de únicos

---

```
num_cases = df2['Country'].value_counts()
```

```
one_case = num_cases[num_cases == 1].index
```

```
df3 = df2[~df2.Country.isin(one_case)]
```

```
countries = df3["Country"].unique()
```

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# Op. 1 Listas

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```
1 north = ['USA', 'BAHAMAS', 'SPAIN', 'CHINA', 'JAPAN', 'C  
2         'INDONESIA', 'CAPE VERDE', 'DOMINICAN REPUBLIC  
3         'THAILAND', 'ITALY', 'MEXICO', 'GREECE', 'FRAN  
4         'ISRAEL', 'TAIWAN', 'JAMAICA', 'GUAM', 'BELIZE  
5         'NIGERIA', 'TONGA', 'SCOTLAND', 'CANADA', 'CRO  
6         'CHILE', 'KENYA', 'RUSSIA', 'TURKS & CAICOS',  
7         'MALAYSIA', 'UNITED ARAB EMIRATES (UAE)', 'AZO  
8         'MALTA', 'VIETNAM', 'PANAMA', 'SOMALIA', 'CUBA  
9         'SENEGAL', 'YEMEN', 'LIBERIA', 'VENEZUELA', 'S  
10        'CARIBBEAN SEA', 'OKINAWA', 'MARSHALL ISLANDS'  
11        'BERMUDA', 'MONTENEGRO', 'IRAN', 'TUNISIA', 'N  
12        'PORTUGAL', 'PALAU', 'GRENADA', 'IRAQ', 'TURKE  
13        'JOHNSTON ISLAND', 'NORTH PACIFIC OCEAN', 'PER  
14        'SIERRA LEONE', 'NICARAGUA', 'BARBADOS', 'HOND  
15        'CRETE', 'EGYPT', 'BURMA', 'LEBANON', 'GUINEA  
  
1 south = ['AUSTRALIA', 'NEW CALEDONIA', 'REUNION', 'SOUTH  
2         'NEW ZEALAND', 'FRENCH POLYNESIA', 'Fiji', 'BRA  
3         'FIJI', 'MAURITIUS', 'ECUADOR', 'PAPUA NEW GUIN  
4         'SEYCHELLES', 'SOLOMON ISLANDS', 'MADAGASCAR',  
5         'URUGUAY', 'TANZANIA', 'NAMIBIA', 'NEW BRITAIN'  
6         'NEW GUINEA', 'AMERICAN SAMOA', 'CENTRAL PACIFI  
  
1 other = ['ATLANTIC OCEAN', 'PACIFIC OCEAN', 'MID ATLANT
```

```
df5["Hemisphere"] =  
np.where(df5["Country"].isin(north), "N", "S")  
  
df5 = df4[~df4.Country.isin(other)]  
  
df5['Country'] = df5['Country'].str.upper()  (FIJI)
```

# Op. 2 Función

---

```
def country_hem(col):
    hem_lst = []
    for row in col:
        try:
            country = CountryInfo(row)
        except AttributeError:
            row = 'x'

        try:
            pos = country.latlng()
        except KeyError:
            pos = (0,0)

        if pos[0] > 0:
            temp_row = 1
        elif pos[0] < 0:
            temp_row = 0
        else:
            temp_row = np.nan

        hem_lst.append(temp_row)

    return hem_lst
```

# Fechas

---

```
df5['Date'] = pd.to_datetime(df['Date'],  
                             errors='coerce')
```

```
df5.dropna(subset=['Date'], inplace=True)
```

```
df5['Month'] =  
pd.DatetimeIndex(df5['Date']).month
```

# Limpieza Fatal

---

```
df_6['Fatal'].unique()
```

```
eliminate = ['U', 'UNKNOWN', 'N ', '#VALUE!', 'n']
```

```
df_def = df_6[~df_6.Fatal.isin(eliminate)]
```



# Tabla Final

	Hemisphere	Month	Fatal
0	N	9	N
1	N	9	N
2	N	9	N
3	S	9	N
4	S	9	N
...	...	...	...
5843	N	1	N
5844	N	1	N
5846	N	1	Y
5850	N	6	Y
5851	N	3	N

Hemisphere	Month	
N	1	209
	2	85
	3	130
	4	177
	5	201
	6	294
	7	427
	8	411
	9	340
	10	220
	11	148
	12	85
S	1	455
	2	226
	3	222
	4	175
	5	121
	6	110
	7	103
	8	96
	9	92
	10	133
	11	183
	12	269

# Gráfico

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