



**Military
Equipment**



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≡ Resumen Ejecutivo ≡

He decidido hacer un filtrado de datos de lo que me parece más importante en cuánto a equipamiento militar a lo largo de la historia

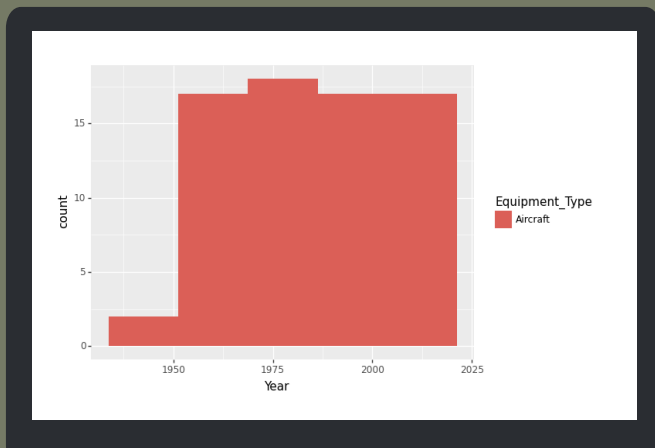


Resumen de los datos



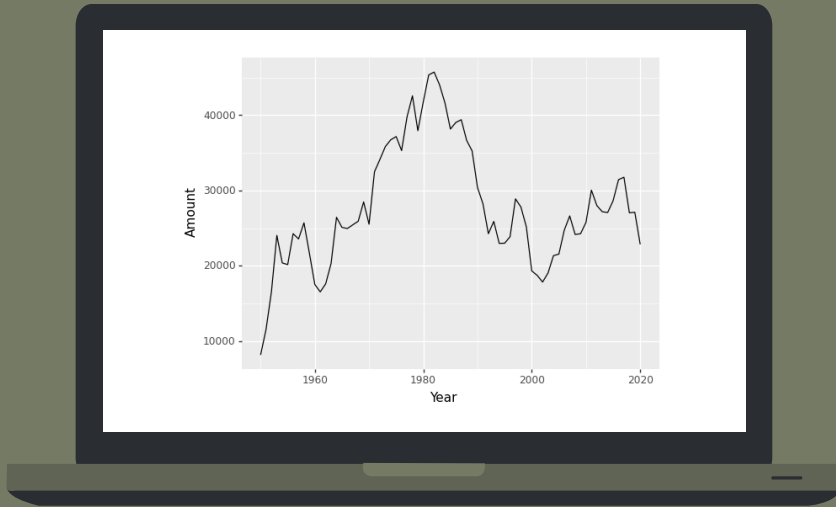
Usé un dataset de kaggle que recoge el armamento importado y exportado desde 1950, incluyendo sus categorías (Defensa aérea, naval etc), tuve que usar un melt ya que los años estaban por columnas y complicaba el filtrado.

Mejor categoría por año



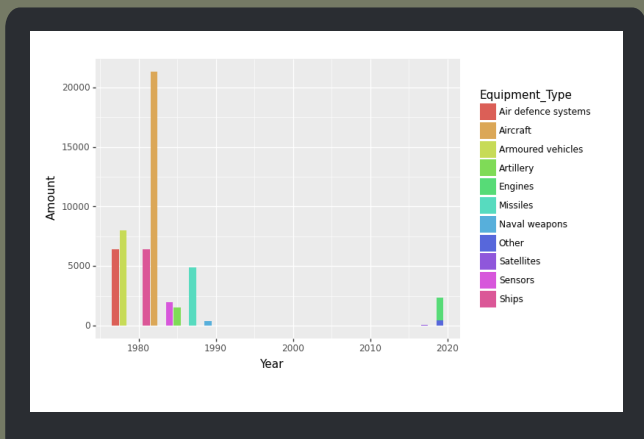
```
1 best_category_year = categories.loc[:, ["Equipment_Type", "Year", "Amount"]]\
2   .groupby(by=["Year", "Equipment_Type"], as_index=False).sum()\
3   .sort_values(by="Amount", ascending=0).drop_duplicates(subset=['Year'], keep='first')\
4
5 ggplot(aes("Year", fill="Equipment_Type"), best_category_year) + geom_histogram()\
6
```

Número total de armamento por año



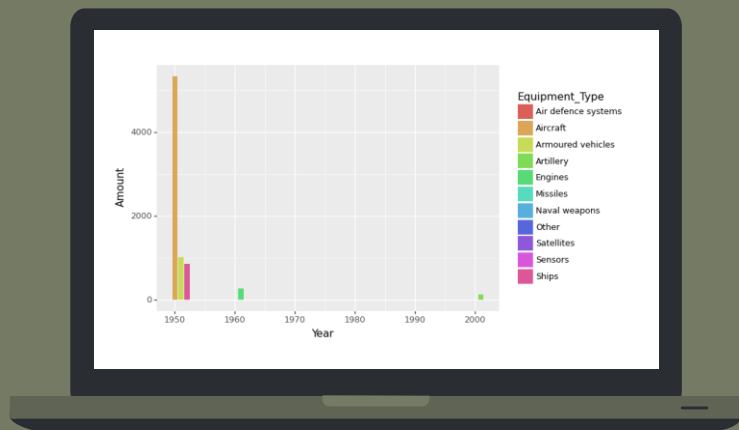
```
1 total_category_year = categories.loc[:, ["Equipment_Type", "Year", "Amount"]]\
2   .groupby(by=["Year"], as_index=False).sum()
3
4 ggplot(aes("Year", "Amount"), total_category_year)+geom_line()
5
```

Categoría más alta por año



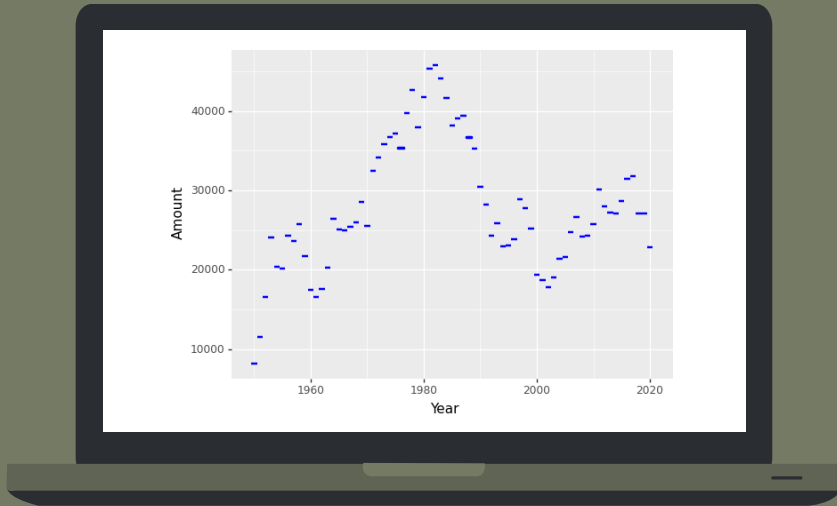
```
1 highest_year_category = categories.loc[:, ["Equipment_Type", "Year", "Amount"]]\n2   .groupby(by=["Equipment_Type", "Year"], as_index=False).sum()\n3   .sort_values(by="Amount", ascending=False).drop_duplicates(subset=["Equipment_Type"], keep="first")\n4\n5 ggplot(aes("Year", "Amount", fill= "Equipment_Type"), highest_year_category) + geom_bar(stat="identity")\n6
```

≡ Categoría más baja ≡ por año



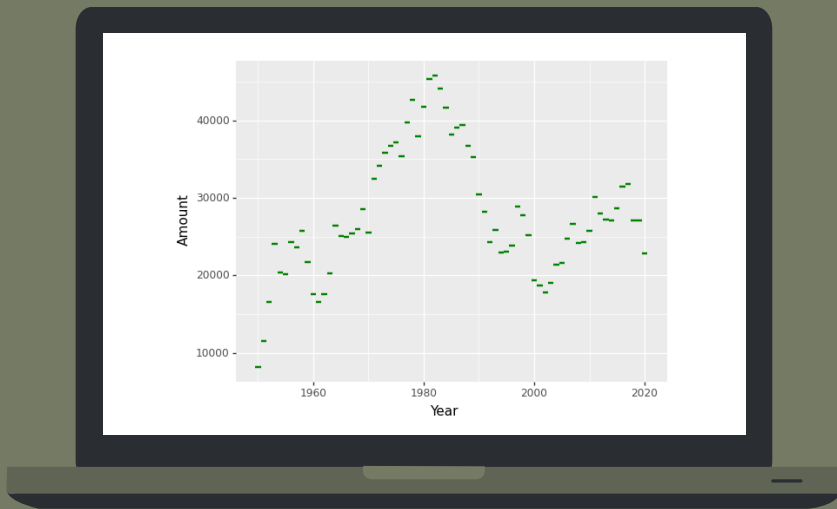
```
1 lowest_year_category = categories.loc[:, ["Equipment_Type", "Year", "Amount"]]\  
2   .groupby(by=["Equipment_Type", "Year"], as_index=False).sum()\  
3   .sort_values(by="Amount", ascending=1).drop_duplicates(subset=["Equipment_Type"], keep='first')\  
4  
5 ggplot(aes("Year", "Amount", fill="Equipment_Type"), lowest_year_category) + geom_bar(stat="identity")
```


Exportación total por año



```
1 total_export_year = transfers.loc[:, ["Year", "Amount", "Transfer_Type"]]\n2   .loc[(transfers.Transfer_Type == "Export ")].groupby(by=["Year"], as_index=False).sum()\n3\n4 ggplot(aes("Year", "Amount"), total_export_year)+geom_tile(color="Red", size=1)
```

Importación total por año



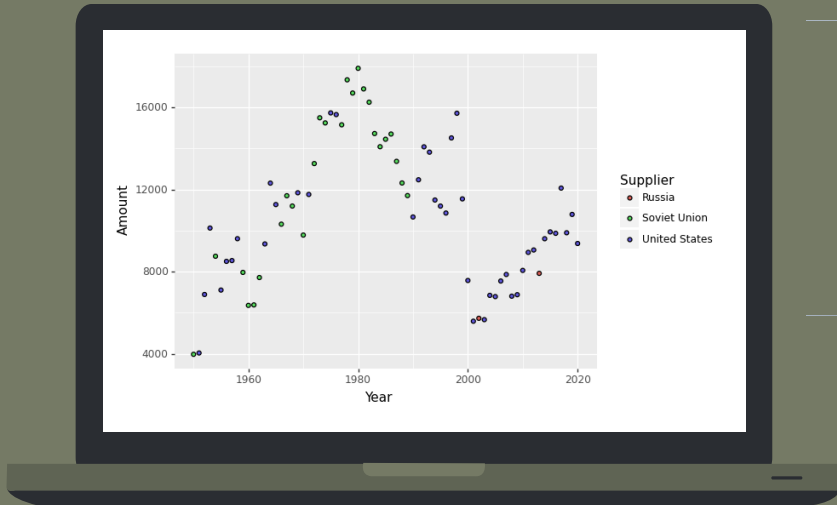
```
1 total_import_year = transfers.loc[:, ["Year", "Amount", "Transfer_Type"]]\n2   .loc[(transfers.Transfer_Type == "Import").groupby(by=["Year"], as_index=False).sum()\n3   ggplot(aes("Year", "Amount"), total_import_year)+geom_tile(color="Green", size=1)
```

Países con mayor importación por año



```
1 highest_import_year = transfers.loc[:, ["Supplier", "Year", "Amount", "Transfer_Type"]]\n2   .loc[(transfers.Transfer_Type == "Import")].groupby(by=["Year", "Supplier"], as_index=False).sum()\n3   .sort_values(by="Amount", ascending=0).drop_duplicates(subset=['Year'], keep='first')\n4\n5 ggplot(aes("Year", "Amount", fill="Supplier"), highest_import_year)+geom_point()
```

Países con mayor importación por año



```
1 highest_export_year = transfers.loc[:, ["Supplier", "Year", "Amount", "Transfer_Type"]]\
2   .loc[(transfers.Transfer_Type == "Export ")] .groupby(by=["Year", "Supplier"], as_index=False).sum()\
3   .sort_values(by="Amount", ascending=0).drop_duplicates(subset=['Year'], keep='first')\
4   ggplot(aes("Year", "Amount", fill="Supplier"), highest_export_year) + geom_point()
```



Gracias!

