MARVEL SUPERHEROES

Presentation by 梁廣廷

INTRODUCTION

LIBRARY

streamlit

pandas

matplotlib

seaborn

plotly
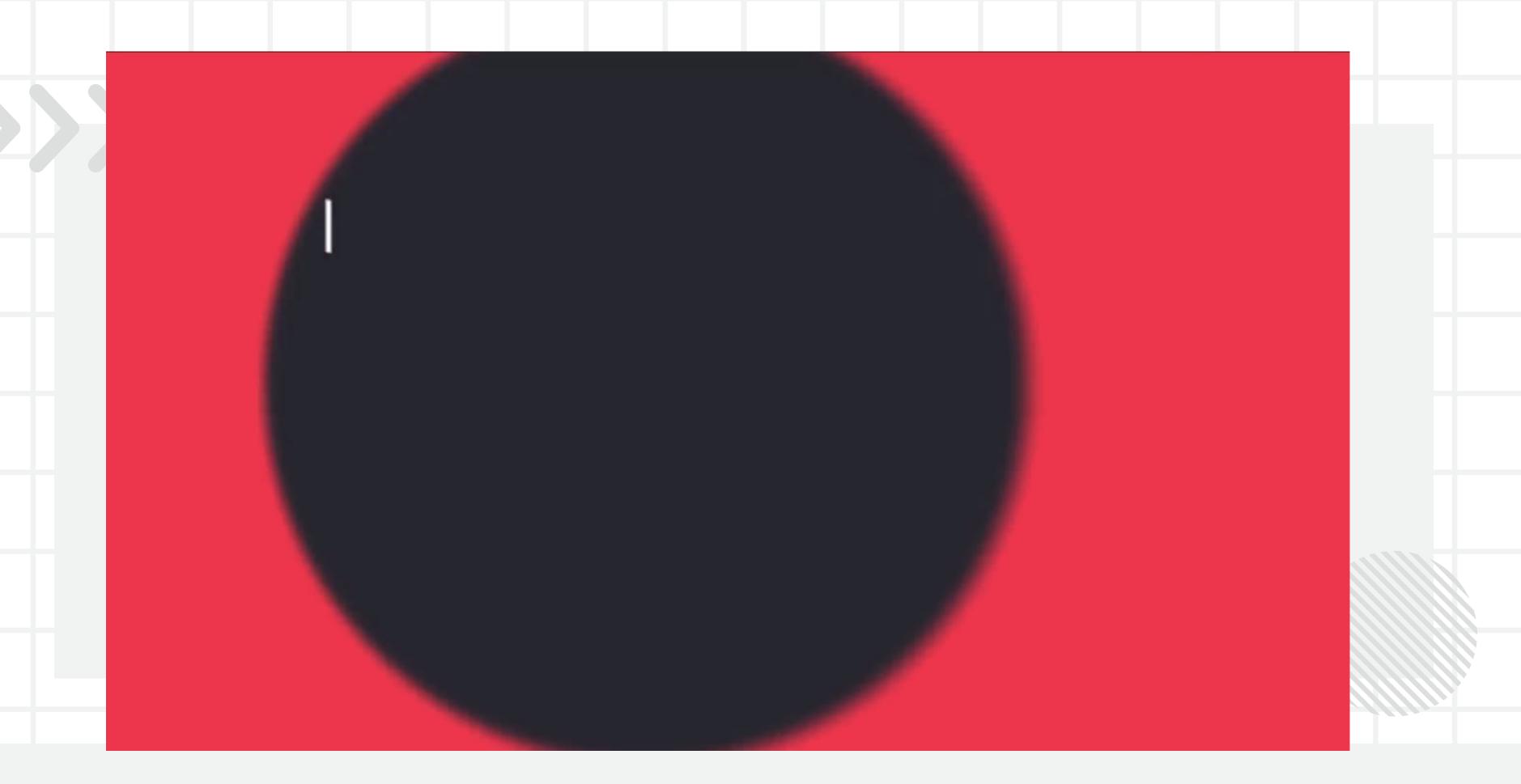
DEMO

REFERENCES
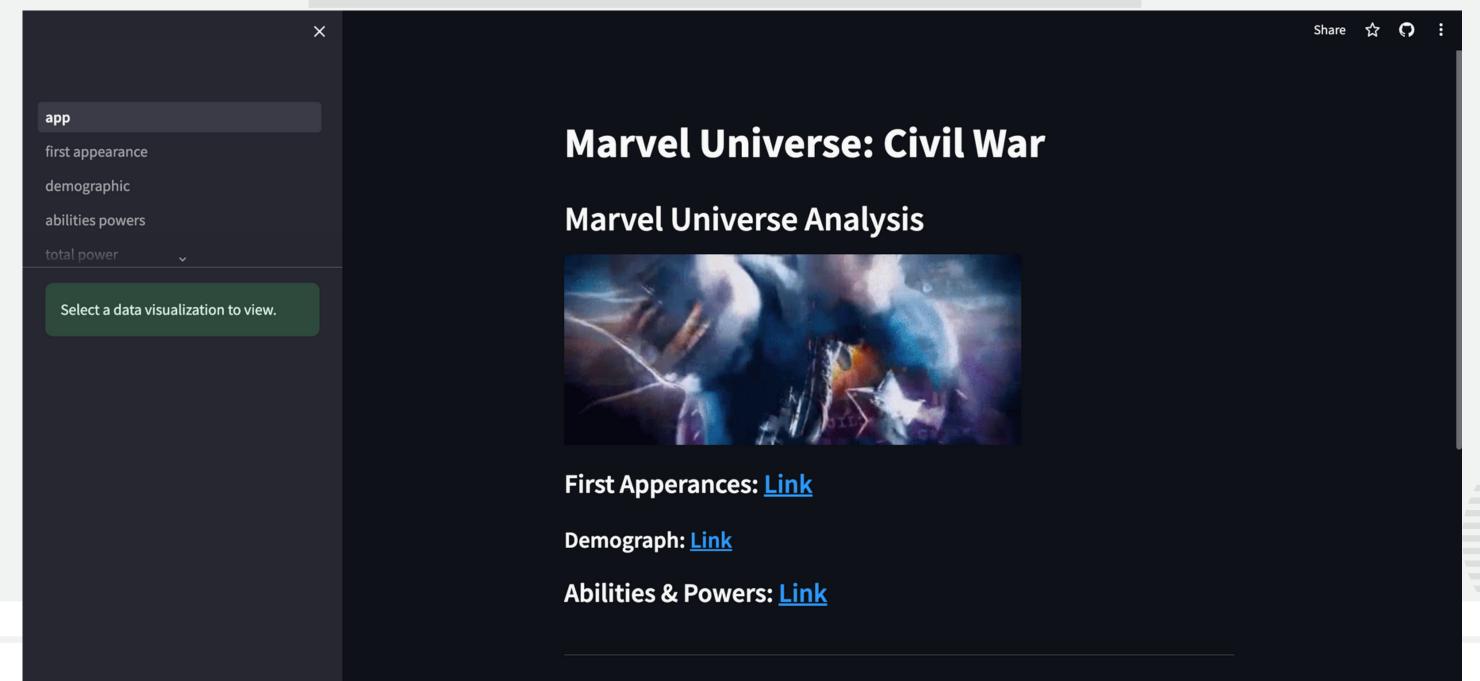
🔍 **STREAMLIT FOR DATA SCIENCE:**
CREATE INTERACTIVE DATA APPS IN PYTHON

🔍 **DOCS.STREAMLIT.IO/**

🔍 **HARNESSING GITHUB COPILOT WITH PYTHON**

THANK YOU

Presentation by 梁廣廷

OUTLINE

🔍 **SHOW THE DATASET NAME AND SOURCE**

🔍 **COLUMN NAMES DESCRIPTIONS AND RECORDS**

🔍 **YOUR QUESTIONS AND CORRESPONDING ANALYSIS PLOTS**

🔍 **CONCLUSIONS**

DATASET NAME AND SOURCE ADDRESS

Marvel Superheroes

https://www.kaggle.com/datasets/danielr/marvel-superheroes

COLUMN NAMES DESCRIPTIONS AND RECORDS

characters.csv
charactersToComics.csv
charcters_stats.csv
comics.csv
marvel_characters_info.cs
marvel_dc_characters.csv
marvel_dc_characters.xlsx
superheroes_power_matri

COLUMN NAMES DESCRIPTIONS AND RECORDS

marvel_characters_info.csv (46.27 kB)

Detail   Compact   Column   10 of 11 columns ∨

ID	Name	Alignment	Gender	EyeColor	Race	HairColor
0	A-Bomb	good	Male	yellow	Human	No Hair
1	Abe Sapien	good	Male	blue	Icthyo Sapien	No Hair
2	Abin Sur	good	Male	blue	Ungaran	No Hair
3	Abomination	bad	Male	green	Human / Radiation	No Hair
4	Abraxas	bad	Male	blue	Cosmic Entity	Black
5	Absorbing Man	bad	Male	blue	Human	No Hair
6	Adam Monroe	good	Male	blue	-	Blond
7	Adam Strange	good	Male	blue	Human	Blond
8	Agent 13	good	Female	blue	-	Blond
9	Agent Bob	good	Male	brown	Human	Brown
10	Agent Zero	good	Male	-	-	-

Presentation by 梁廣廷 | 資料視覺化 | 2023 FALL | Tamkang University

COLUMN NAMES DESCRIPTIONS AND RECORDS

charcters_stats.csv (21.93 kB)

Detail   Compact   Column

⬓ Name	⬓ Alignment	# Intelligence	# Strength	# Speed	# Durability	# Power
3-D Man	good	50	31	43	32	25
A-Bomb	good	38	100	17	80	17
Abe Sapien	good	88	14	35	42	35
Abin Sur	good	50	90	53	64	84
Abomination	bad	63	80	53	90	55
Abraxas	bad	88	100	83	99	100
Adam Monroe	good	63	10	12	100	71
Adam Strange	good	1	1	1	1	0
Agent 13	good	1	1	1	1	0
Agent Bob	good	10	8	13	5	5
Agent Zero	good	75	28	38	80	72
Air-Walker	bad	50	85	100	85	100

Presentation by 梁廣廷 | 資料視覺化 | 2023 FALL | Tamkang University

QUESTIONS

🔍 YEAR OF APPEARANCE

🔍 ALIGNMENT

🔍 GENDER VS. ALIGNMENT

🔍 IDENTITY VS. ALIGNMENT

🔍 ABILITIES & POWERS
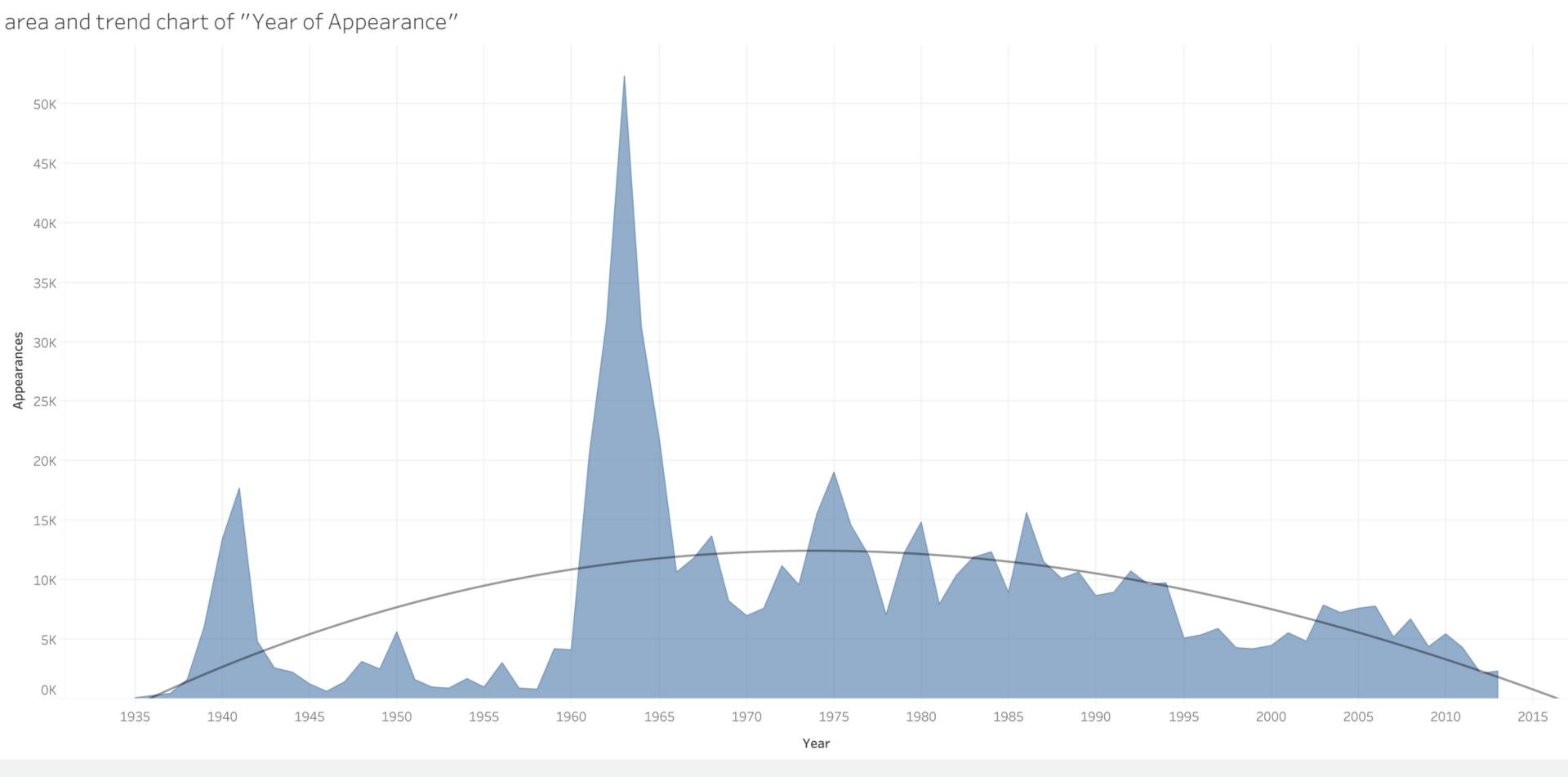
🔍 THE POWERGRID COMPARISON
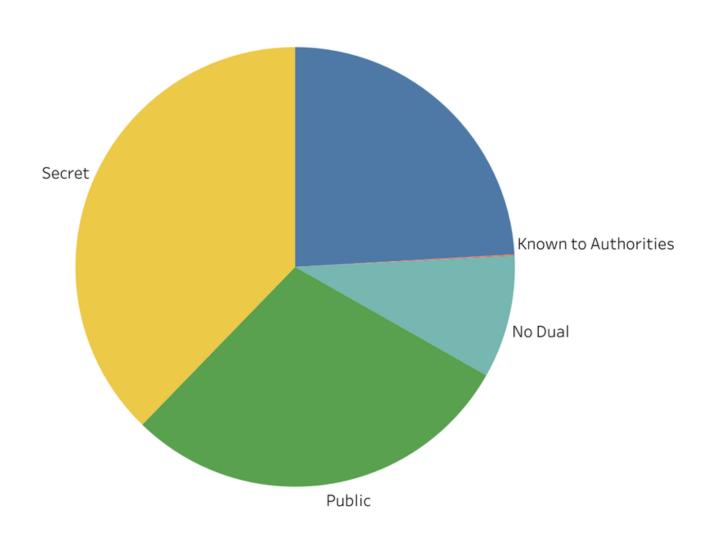
🔍 TOTAL POWER OF THE TEAM BY CHARACTERS

🔍 COMPARISON OF CHARACTERS

🔍 SCATTER OF APPEARANCE AND GENDER
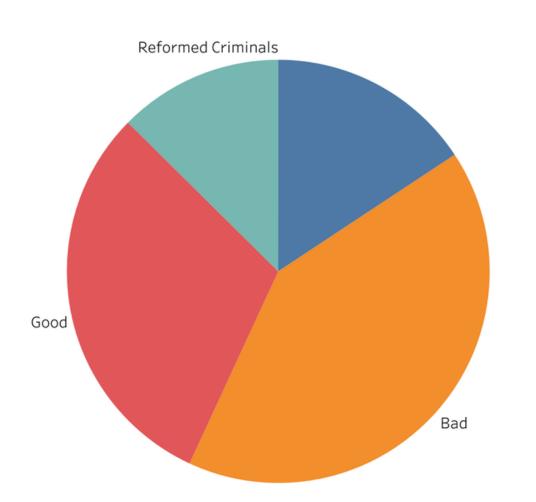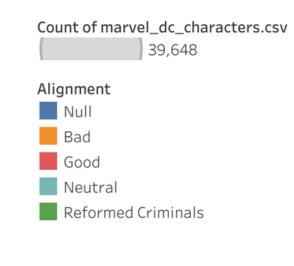
area and trend chart of "Year of Appearance"

Presentation by 梁廣廷 | 資料視覺化 | 2023 FALL | Tamkang University
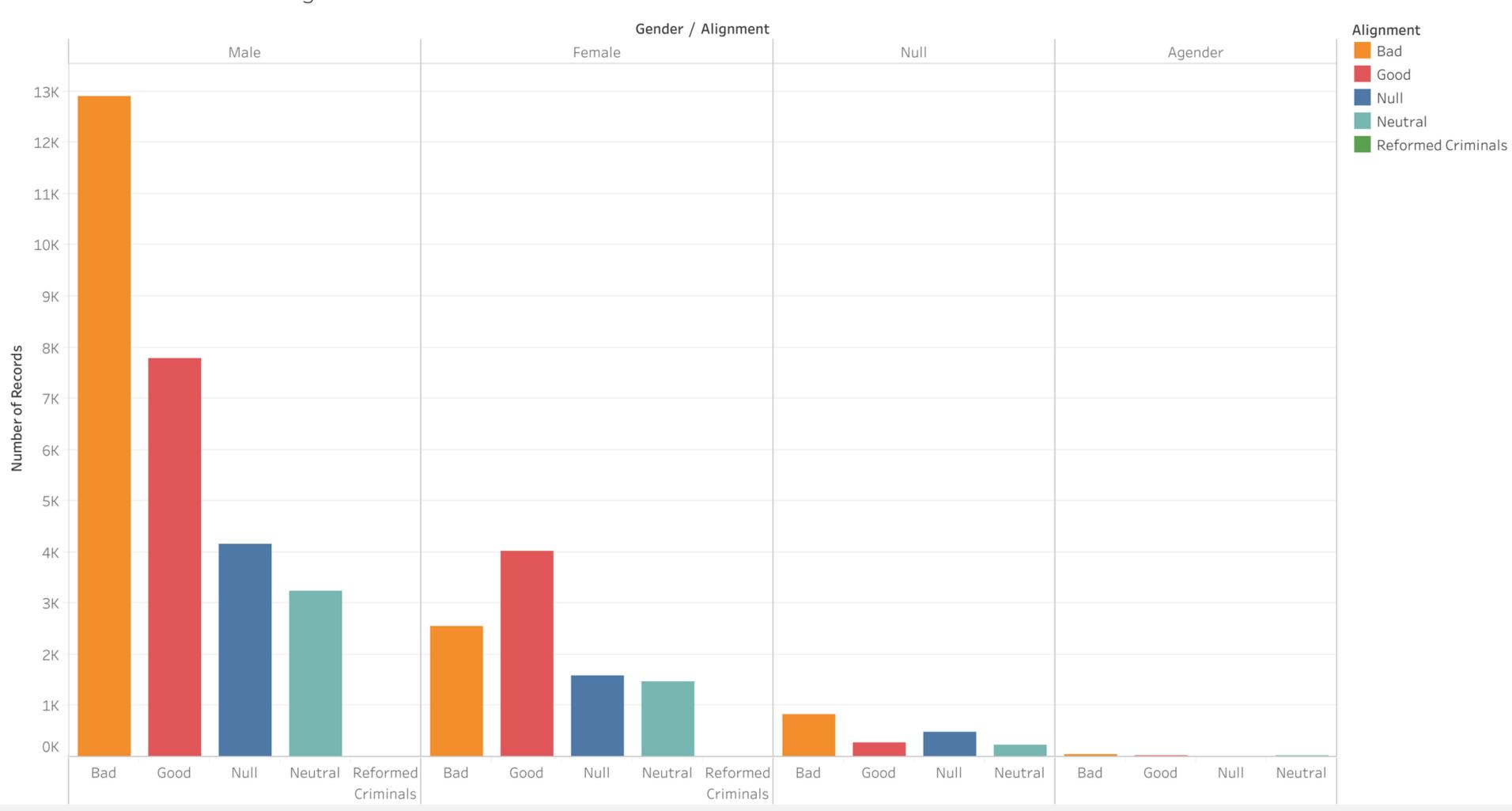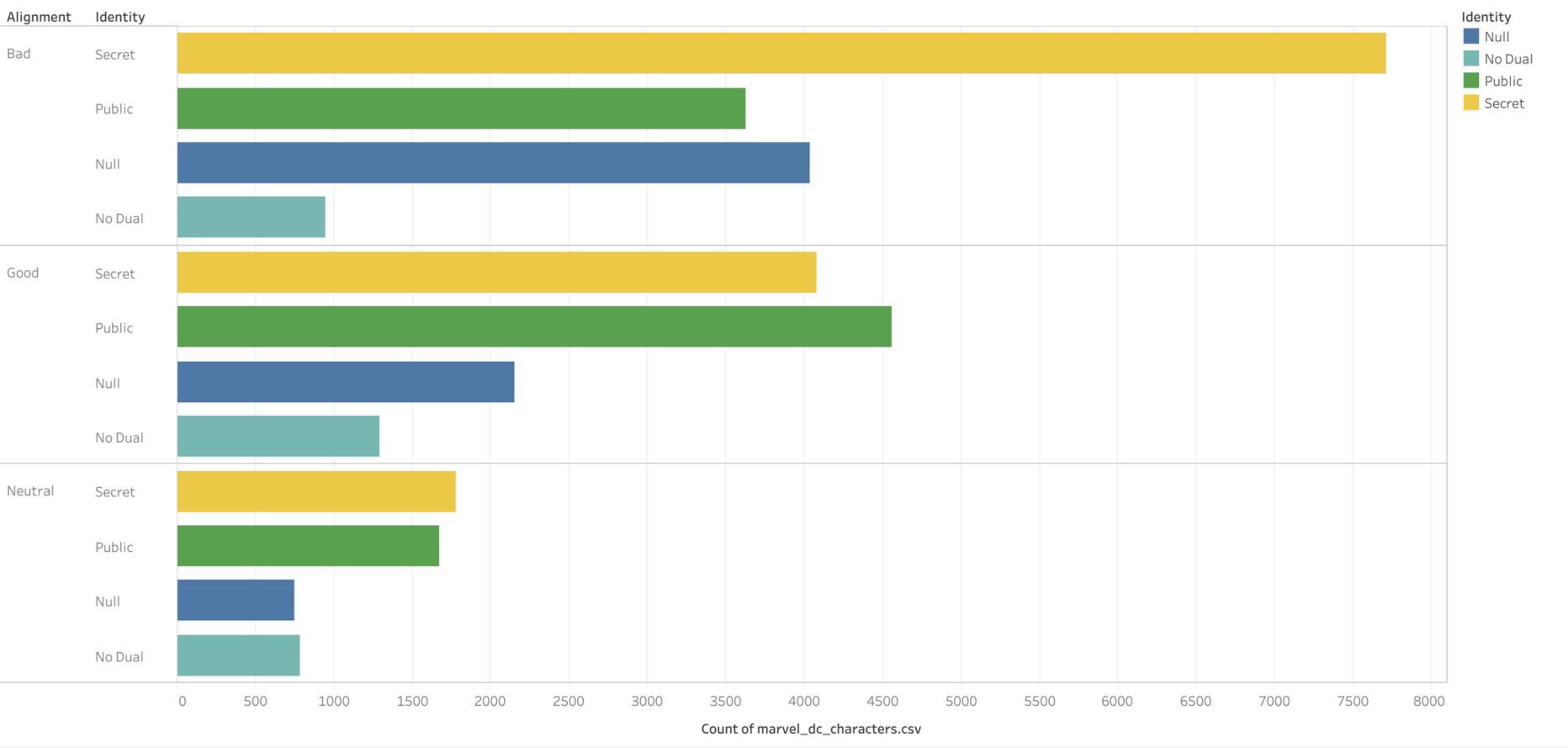
bar chart of "Gender vs. Alignment"

Gender / Alignment

Alignment
■ Bad
■ Good
■ Null
■ Neutral
■ Reformed Criminals
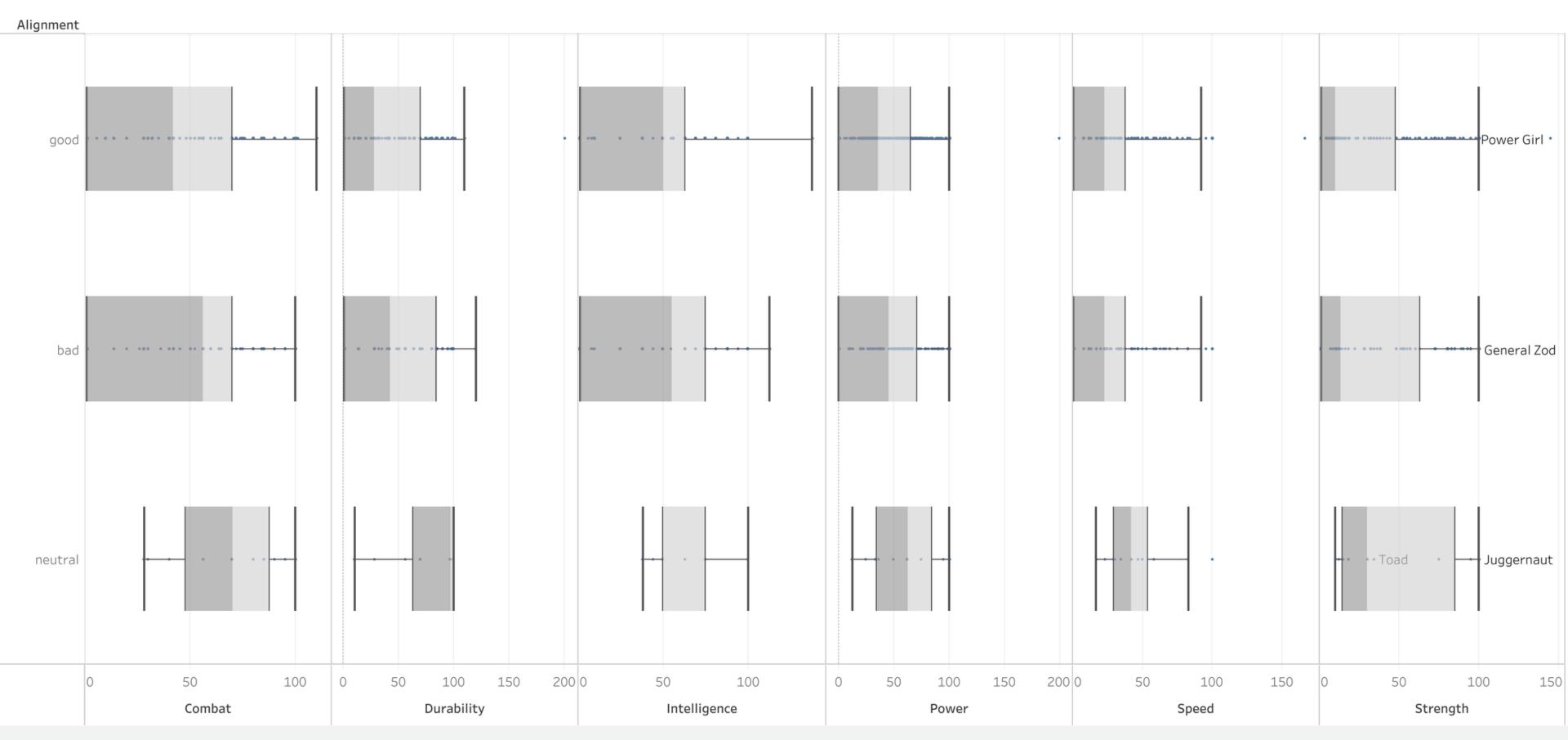
bar chart of Identity vs. Alignment

Presentation by 梁廣廷 | 資料視覺化 | 2023 FALL | Tamkang University
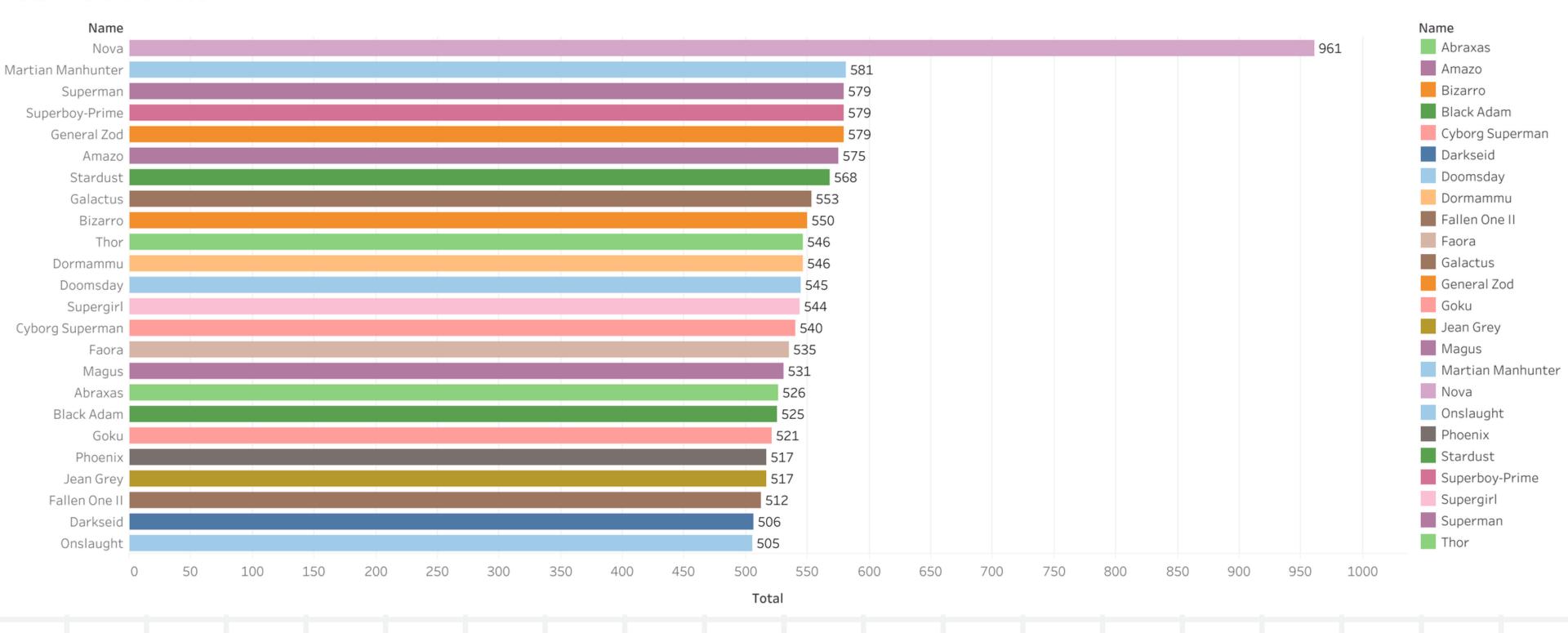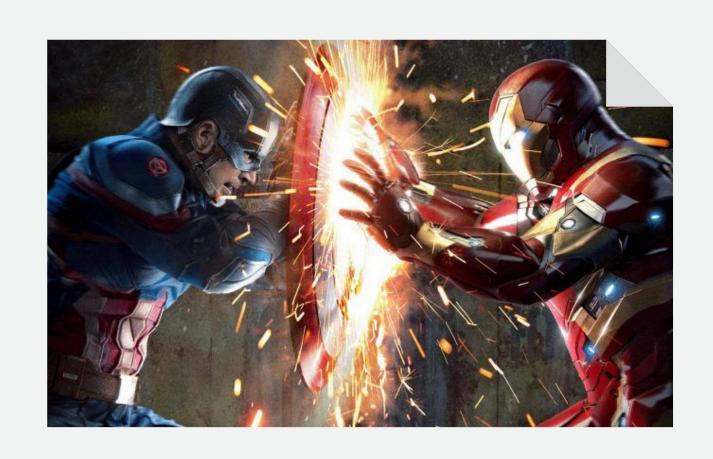
<u>Winners of Combat</u>
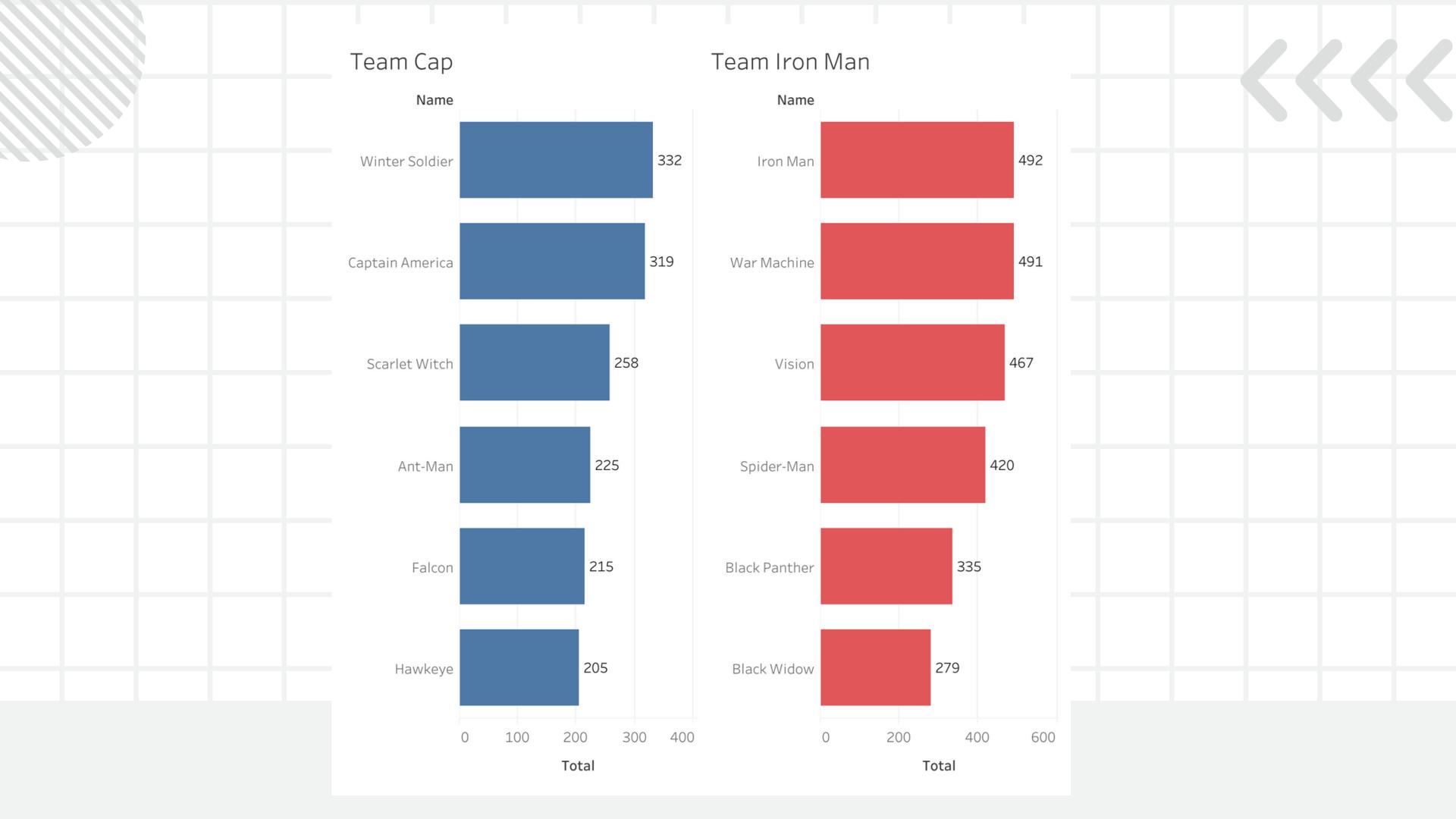
Total more than 500
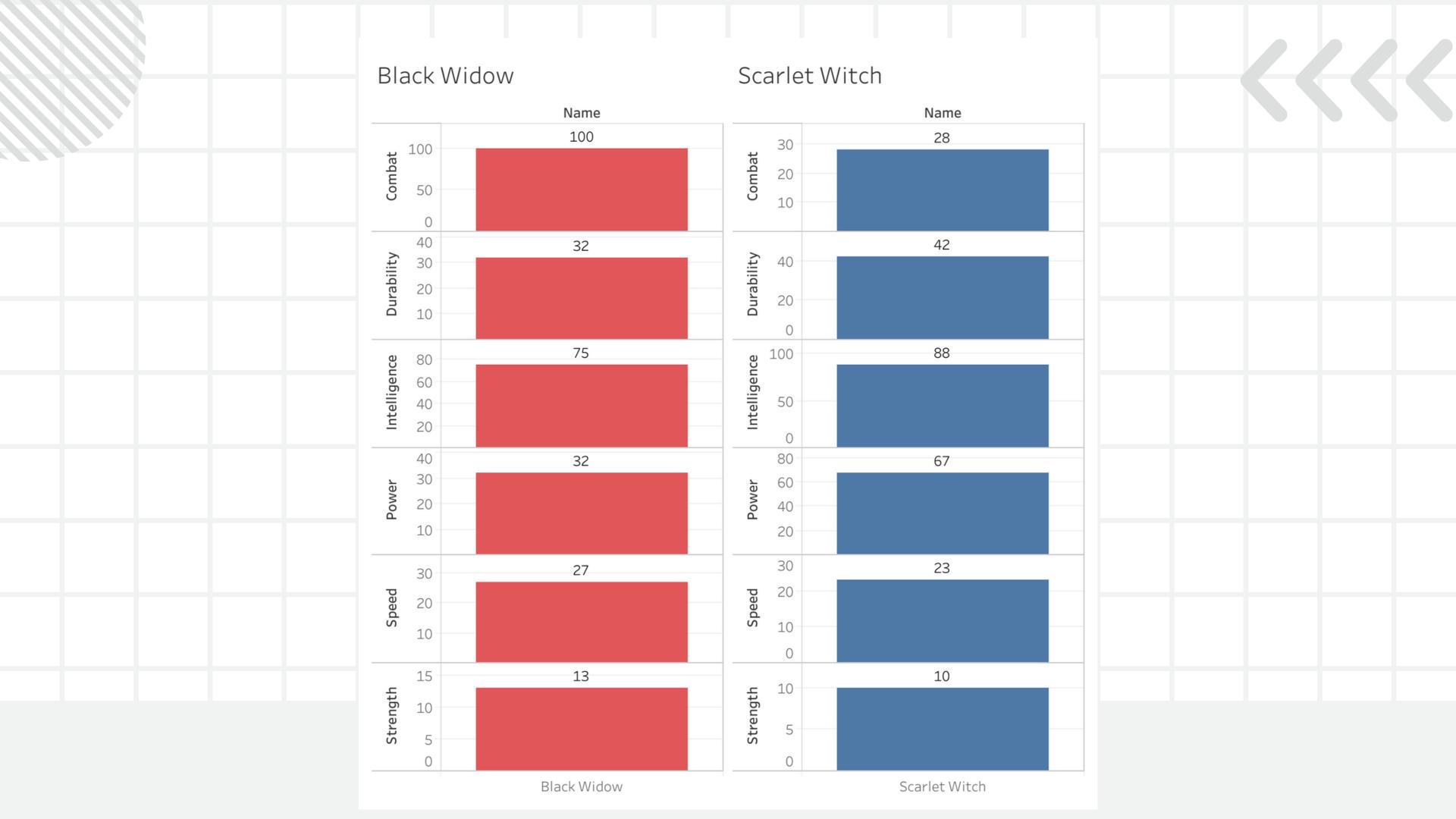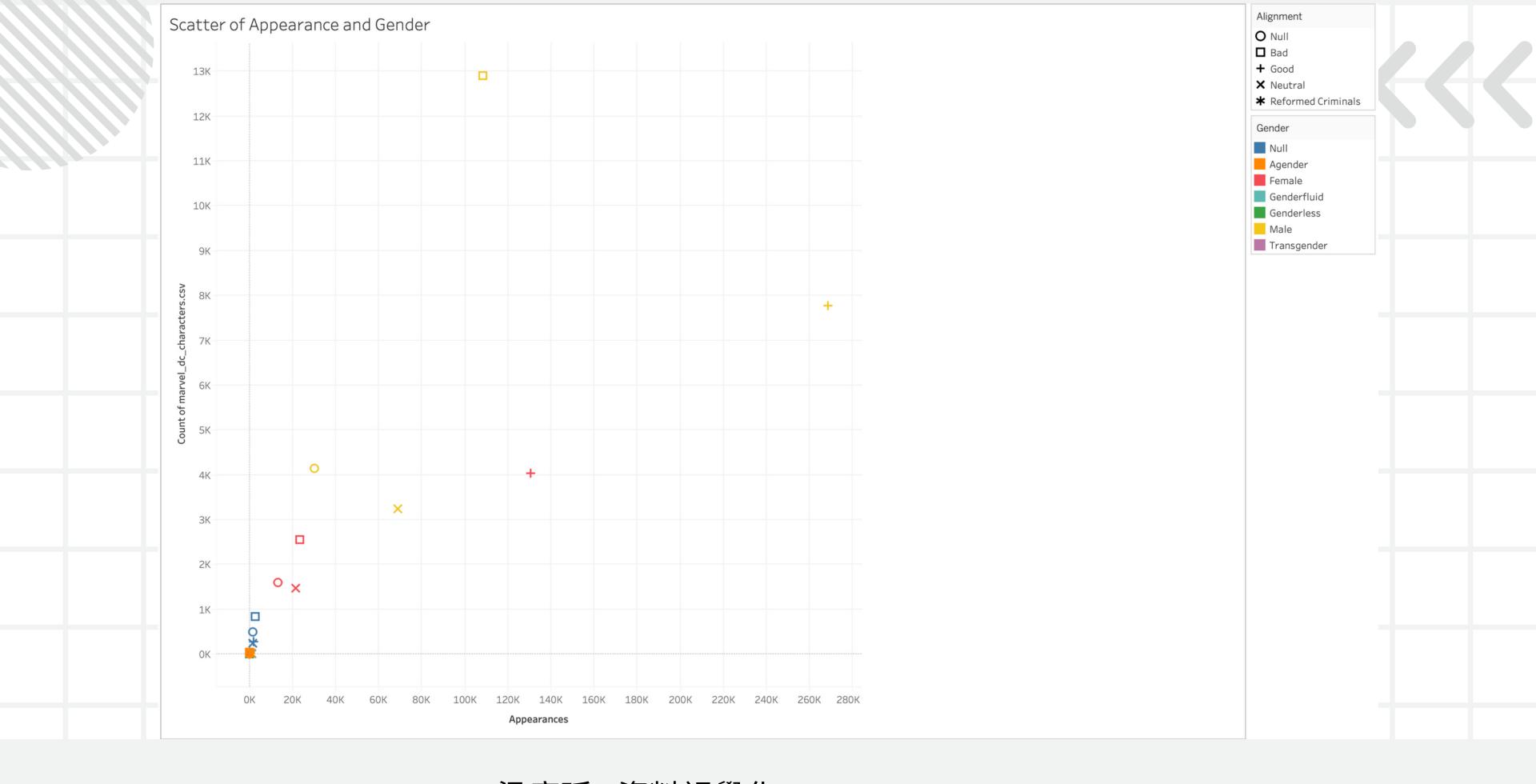
CIVIL WAR ANALYSIS

Team Cap vs Team Iron Man

Team Cap

Name

Name	Total
Winter Soldier	332
Captain America	319
Scarlet Witch	258
Ant-Man	225
Falcon	215
Hawkeye	205

Total

Team Iron Man

Name

Name	Total
Iron Man	492
War Machine	491
Vision	467
Spider-Man	420
Black Panther	335
Black Widow	279

Total

CONCLUSION

- 1963 Appearance the most
- Secret the most
- Bad the most
- Nova is the most powerful hero
- In civil war, Team Iron Man is more powerful

TABLEAU PUBLIC LINK

link

THANK YOU

Presentation by 梁廣廷