



# ETC 5513

## Assignment 4

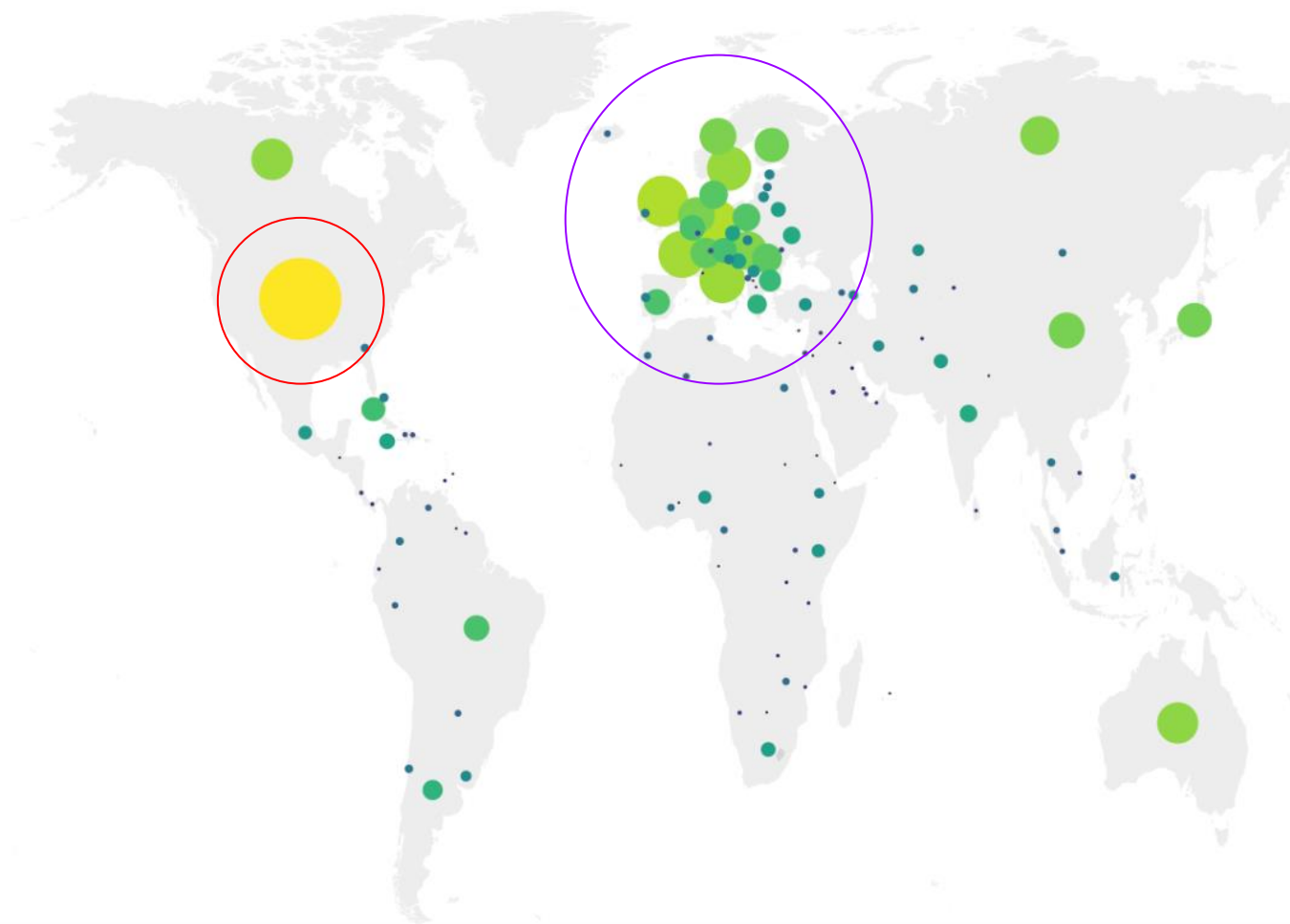
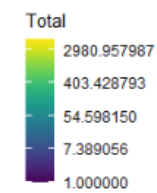
Group Name: DDD

Group Member: Juntong Wei (Michelle)  
Qin Xu (Rachel)  
Xuanming Liang (Ricky)  
Ziang Li (Tide)

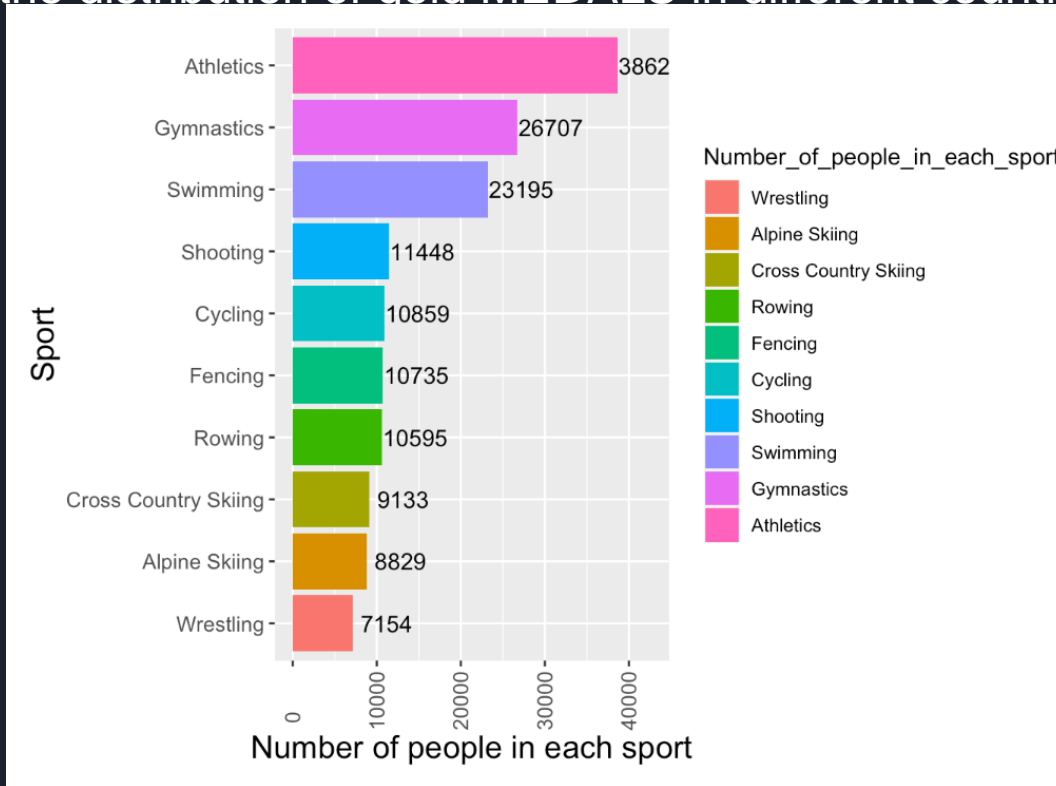
# Introduction



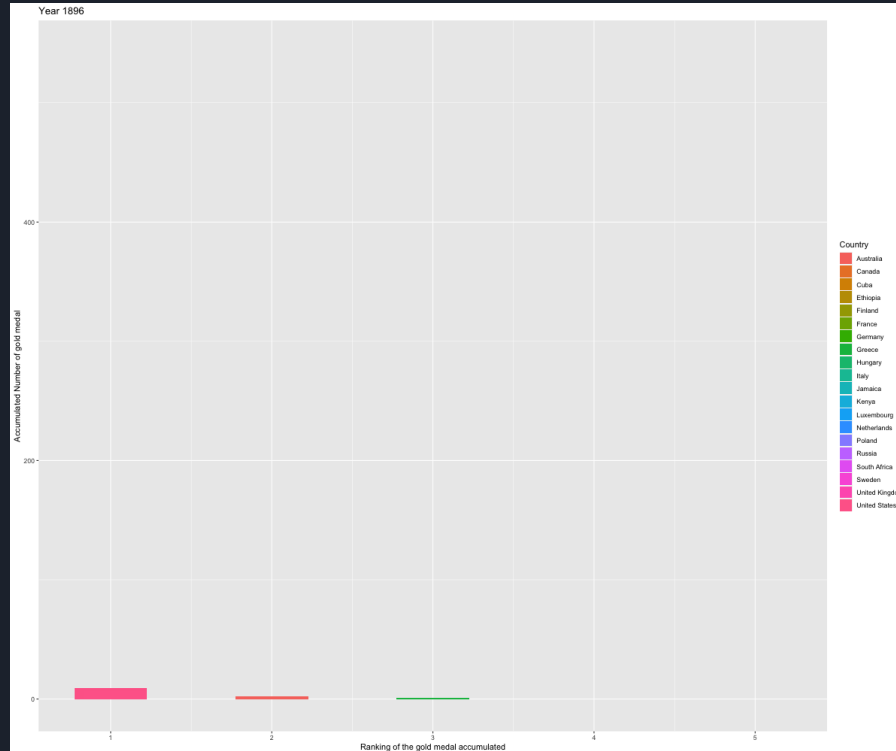
- Numbers of medal
- Age
- Countries
- Tourists



Part 2: Find out which sport has the largest number of participants and study the distribution of gold MEDALS in different countries over time



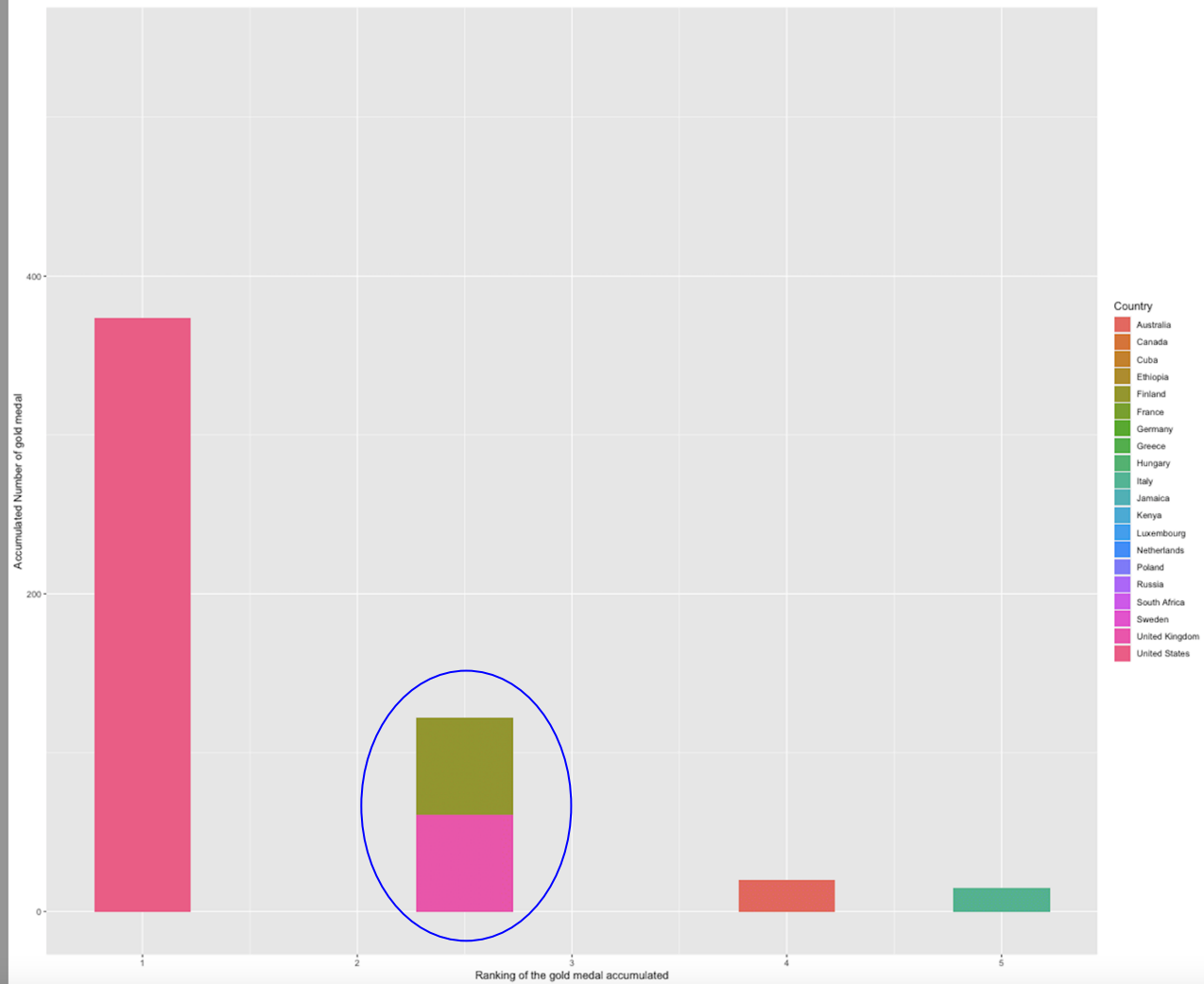
# Athletics: Ranking of the gold medal accumulated in each year (1896-2016)



Year 1980



Year 1984

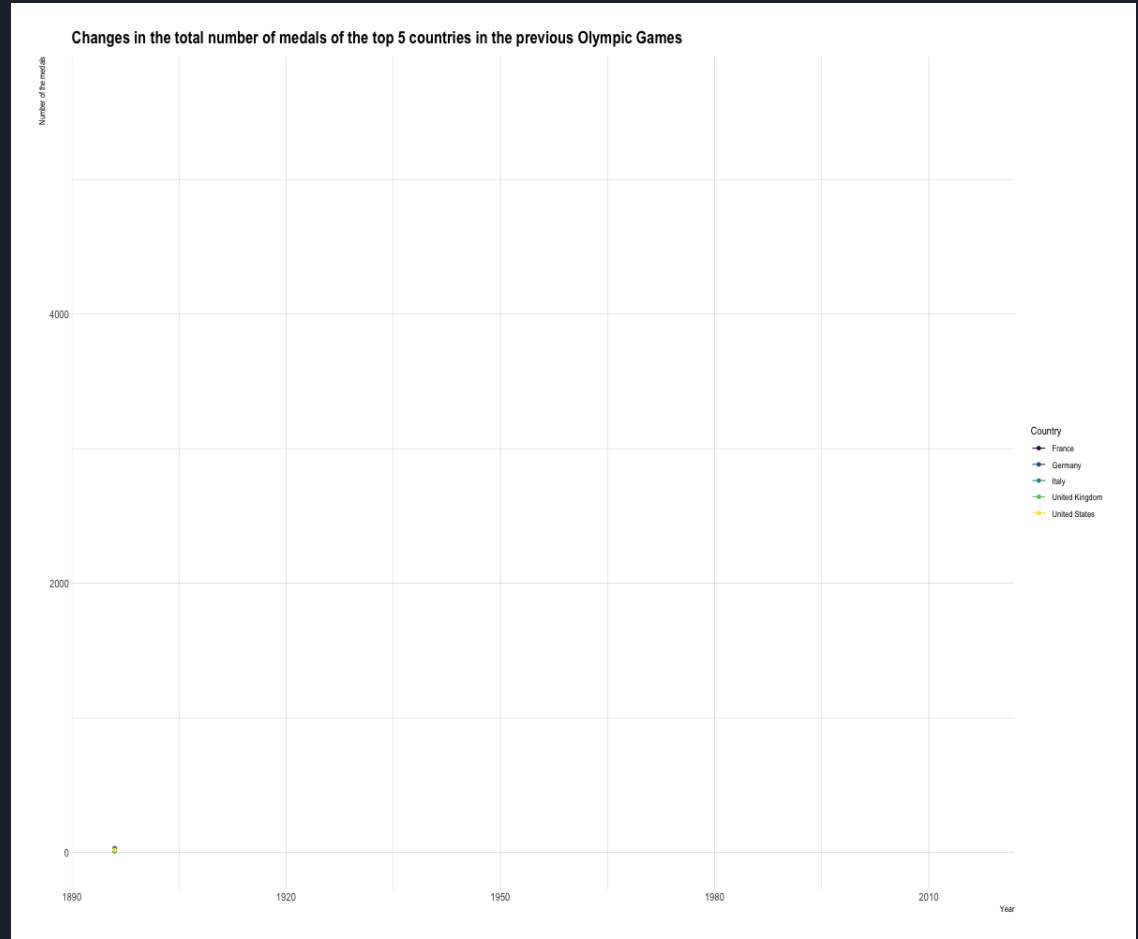


# How about the Medals of top 5 countries allocated in the events

This Line chart shows the Medals changing of the Top5 countries in previous Olympic Games.


The United States has consistently ranked first in the total number of medals.

After 1990, the number of medals in Germany has increased rapidly.



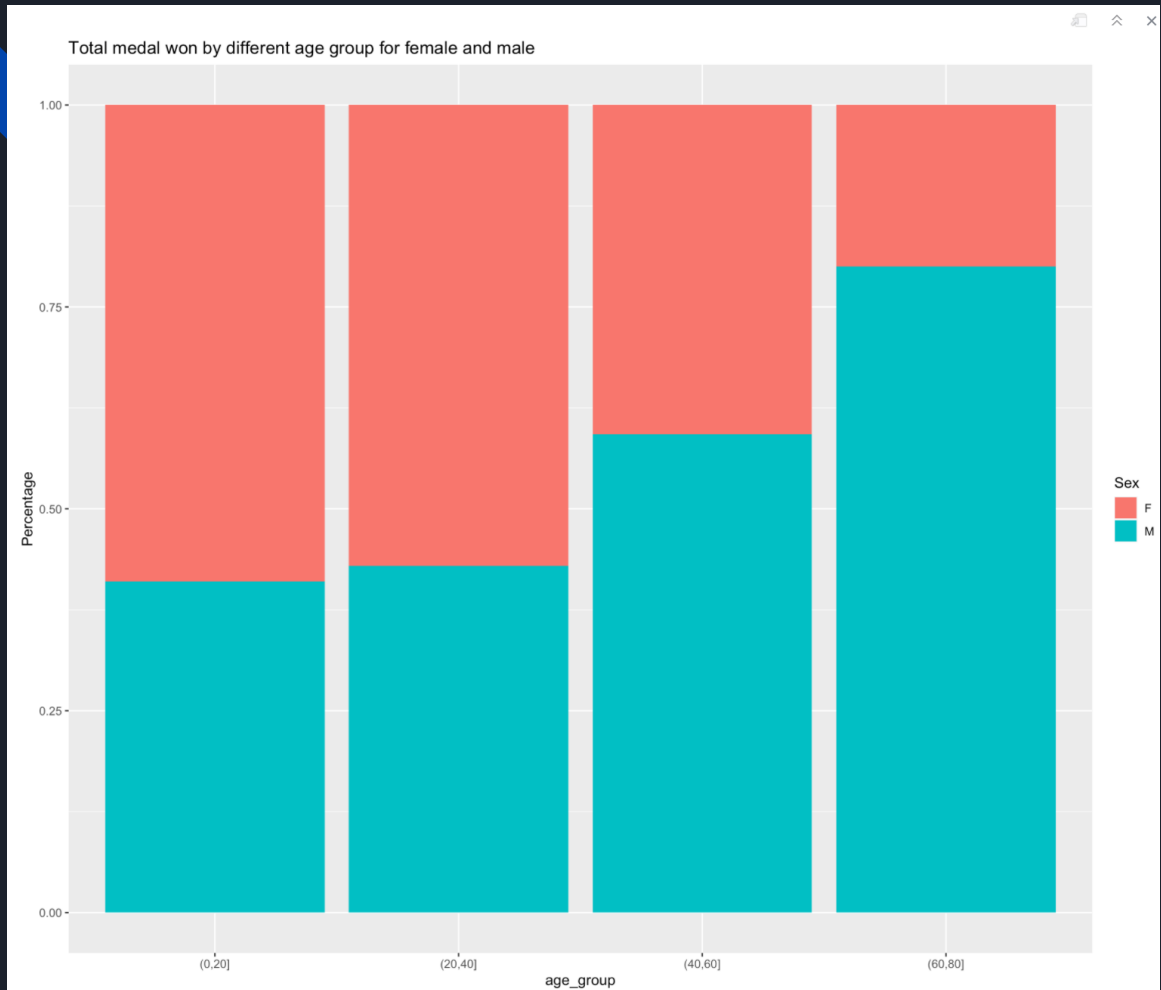






## Comparing medals won for different age group by gender

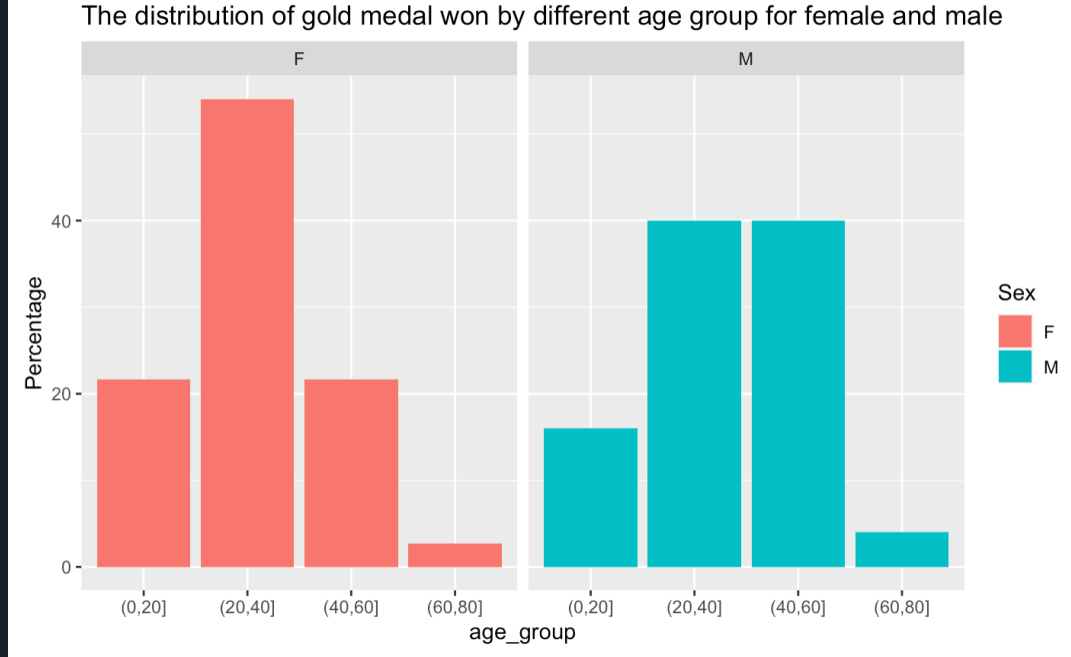
Sex	total_medal_by_sex	age_group	total_medal_in_age_group	Percentage
F	121	(0,20]	27	22.314050
F	121	(20,40]	60	49.586777
F	121	(40,60]	31	25.619835
F	121	(60,80]	3	2.479339
M	161	(0,20]	25	15.527950
M	161	(20,40]	60	37.267081
M	161	(40,60]	60	37.267081
M	161	(60,80]	16	9.937888



Total medal won by different age group for female and male.

# Gold medal distribution between age by gender

Sex	age_group	Medal	number	total_gold_medal	Percentage
F	(0,20]	Gold	8	37	21.621622
F	(20,40]	Gold	20	37	54.054054
F	(40,60]	Gold	8	37	21.621622
F	(60,80]	Gold	1	37	2.702703
M	(0,20]	Gold	8	50	16.000000
M	(20,40]	Gold	20	50	40.000000
M	(40,60]	Gold	20	50	40.000000
M	(60,80]	Gold	2	50	4.000000



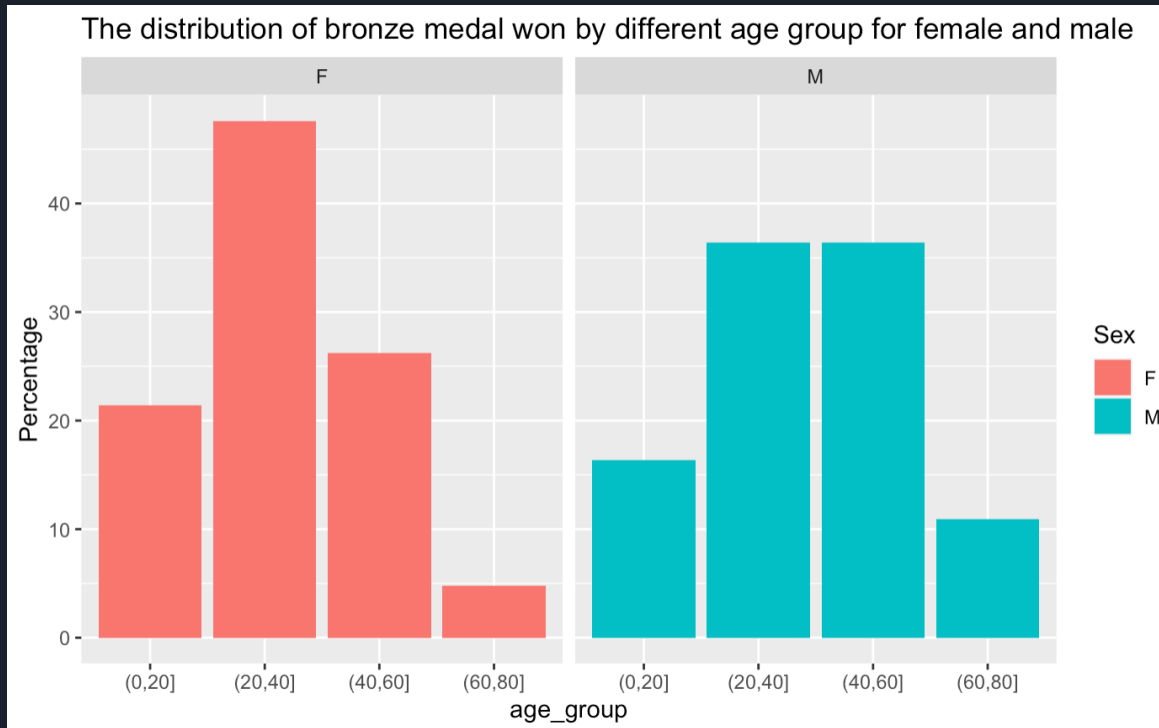
# Silver medal distribution between age by gender

Sex	age_group	Medal	number	total_silver_medal	Percentage
F	(0,20]	Silver	10	42	23.80952
F	(20,40]	Silver	20	42	47.61905
F	(40,60]	Silver	12	42	28.57143
M	(0,20]	Silver	8	56	14.28571
M	(20,40]	Silver	20	56	35.71429
M	(40,60]	Silver	20	56	35.71429
M	(60,80]	Silver	8	56	14.28571

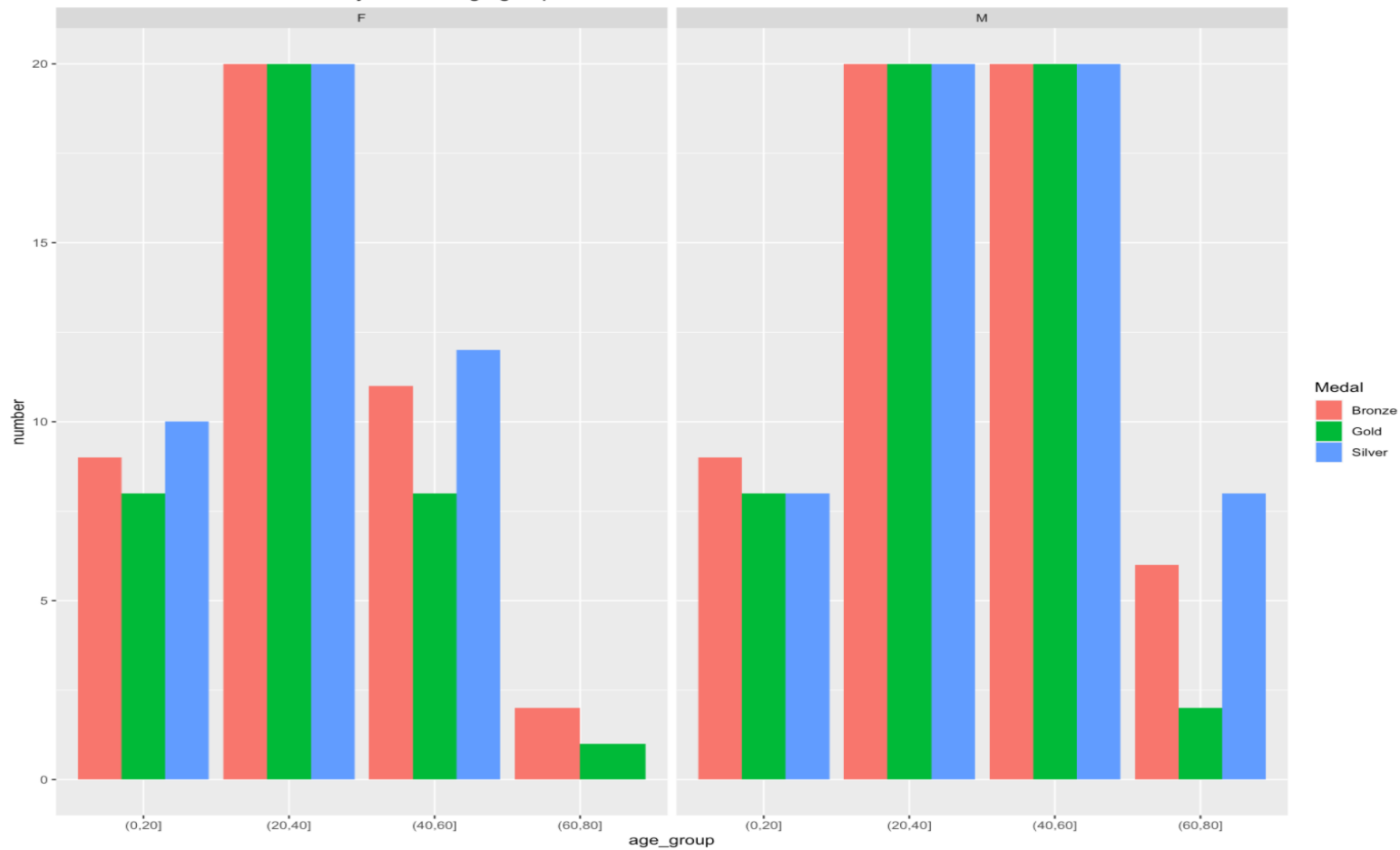


# Silver medal distribution between age by gender

Sex	age_group	Medal	number	total_bronze_medal	Percentage
F	(0,20]	Bronze	9	42	21.428571
F	(20,40]	Bronze	20	42	47.619048
F	(40,60]	Bronze	11	42	26.190476
F	(60,80]	Bronze	2	42	4.761905
M	(0,20]	Bronze	9	55	16.363636
M	(20,40]	Bronze	20	55	36.363636
M	(40,60]	Bronze	20	55	36.363636
M	(60,80]	Bronze	6	55	10.909091



The distribution of medal won by different age group for female and male





# CONCLUSION





thank  
you