



*Marriage  
Remarriage  
Divorce*

# ABOUT

This project analyzed marriage statistics within the US and around the world and draws conclusions through the data of the people



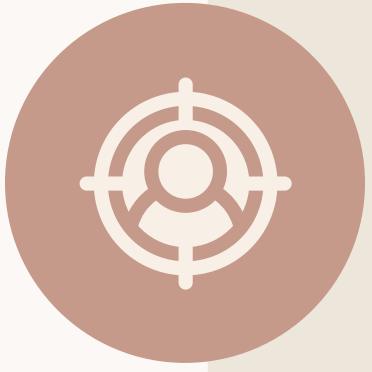
# *Goals of this project*



Use Python to analyze marriage trends in the US and in India



Analyze average marriage age in other countries compared to the US



Show changes of people in their first marriage vs those who remarry



Visualize the Data.



## STEPS WE INTEND TO TAKE



## Dataset 1

year	level_1	level_2	value	
0	1984	Total	Same Age	2506
1	1984	Total	Groom Older By 1 Year	3069
2	1984	Total	Groom Older By 2 Years	3168
3	1984	Total	Groom Older By 3 Years	3036
4	1984	Total	Groom Older By 4 Years	2590
...	...	...	...	...
67	1984	Remarriages	Groom Younger By 2 Years	58
68	1984	Remarriages	Groom Younger By 3 Years	51
69	1984	Remarriages	Groom Younger By 4 Years	47
70	1984	Remarriages	Groom Younger By 5-9 Years	113
71	1984	Remarriages	Groom Younger By 10 Years & Over	43

### Description of data

- 2520 rows x 4 columns
- Ranges from 1984-2018
- Shows age variation of grooms for women when they are in their first marriage versus those that remarry

## Dataset 2

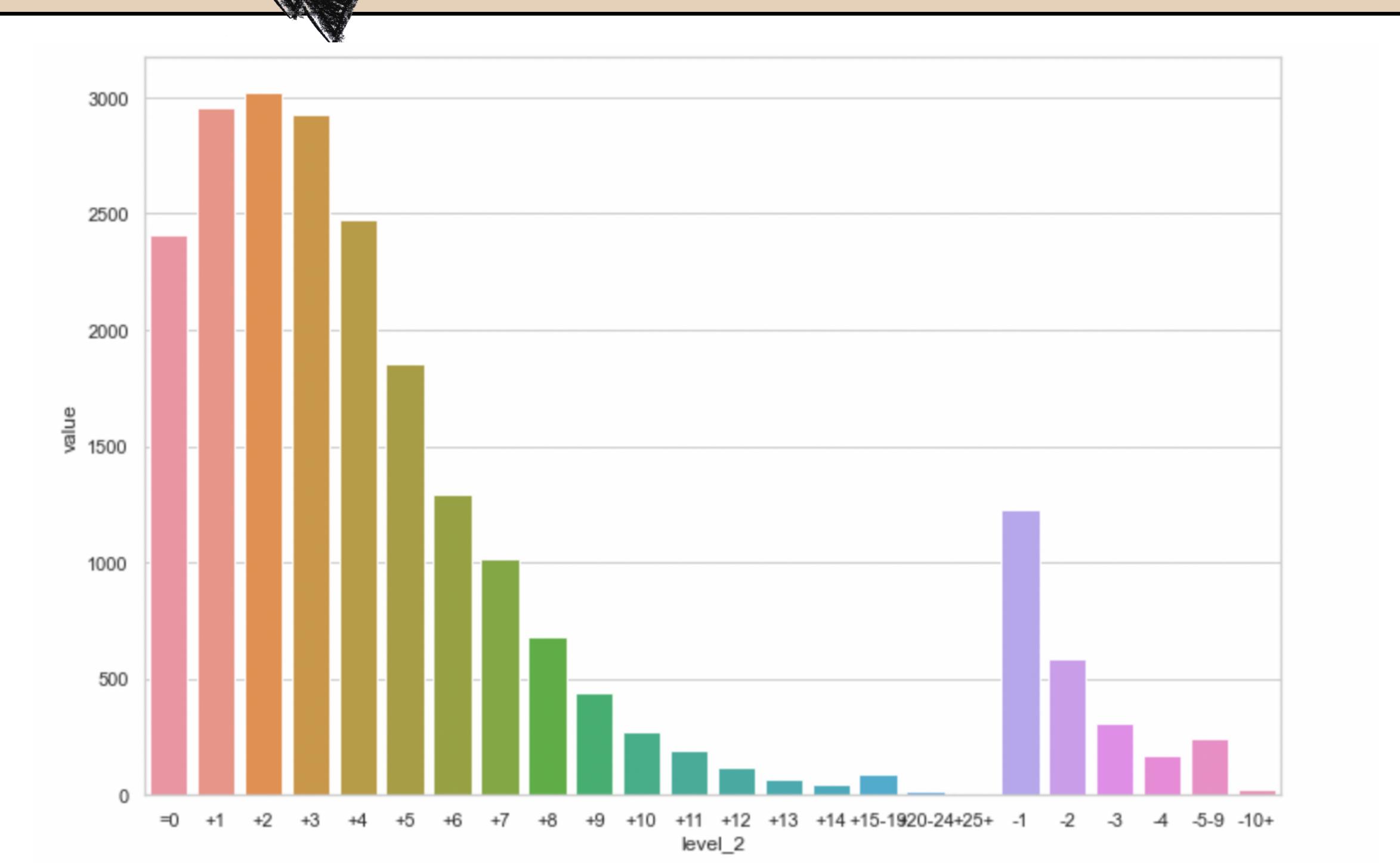
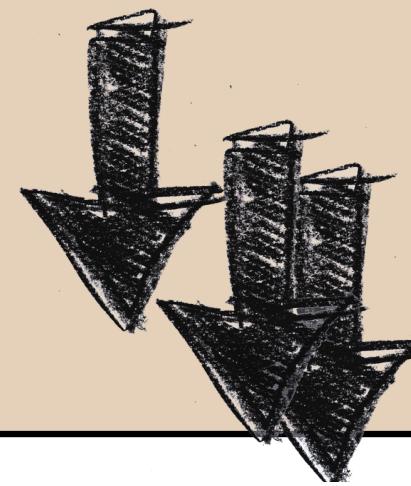
### Description of data

#### CURRENTLY MARRIED MEN AND WOMEN

1	2	3	Country or area	ISO code	YearStart	YearEnd	Sex	AgeGroup	AgeStart	AgeEnd	DataValue	DataProcess	DataC:
18700	TFYR Macedonia	807	2011	2011	Women [25-29]				25	29	65.5	Survey	2011 M
18701	TFYR Macedonia	807	2011	2011	Women [30-34]				30	34	85.5	Survey	2011 M
18702	TFYR Macedonia	807	2011	2011	Women [35-39]				35	39	90.3	Survey	2011 M
18703	TFYR Macedonia	807	2011	2011	Women [40-44]				40	44	91.8	Survey	2011 M
18704	TFYR Macedonia	807	2011	2011	Women [45-49]				45	49	92.4	Survey	2011 M
18705	Thailand	764	1970	1970	Men [10-14]				10	14	0.0	Census	1970 C
18706	Thailand	764	1970	1970	Men [15-19]				15	19	3.6	Census	1970 C
18707	Thailand	764	1970	1970	Men [20-24]				20	24	34.1	Census	1970 C
18708	Thailand	764	1970	1970	Men [25-29]				25	29	73.5	Census	1970 C
18709	Thailand	764	1970	1970	Men [30-34]				30	34	87.5	Census	1970 C
18710	Thailand	764	1970	1970	Men [35-39]				35	39	91.8	Census	1970 C
18711	Thailand	764	1970	1970	Men [40-44]				40	44	93.0	Census	1970 C
18712	Thailand	764	1970	1970	Men [45-49]				45	49	92.5	Census	1970 C
18713	Thailand	764	1970	1970	Men [50-54]				50	54	90.7	Census	1970 C
18714	Thailand	764	1970	1970	Men [55-59]				55	59	88.4	Census	1970 C
18715	Thailand	764	1970	1970	Men [60-64]				60	64	84.0	Census	1970 C
18716	Thailand	764	1970	1970	Men [65-69]				65	69	79.0	Census	1970 C
18717	Thailand	764	1970	1970	Men [70+]				70	999	66.8	Census	1970 C
18718	Thailand	764	1970	1970	Women [10-14]				10	14	0.9	Census	1970 C
18719	Thailand	764	1970	1970	Women [15-19]				15	19	17.5	Census	1970 C
18720	Thailand	764	1970	1970	Women [20-24]				20	24	58.0	Census	1970 C
18721	Thailand	764	1970	1970	Women [25-29]				25	29	79.3	Census	1970 C
18722	Thailand	764	1970	1970	Women [30-34]				30	34	85.9	Census	1970 C
18723	Thailand	764	1970	1970	Women [35-39]				35	39	86.8	Census	1970 C
18724	Thailand	764	1970	1970	Women [40-44]				40	44	84.6	Census	1970 C
18725	Thailand	764	1970	1970	Women [45-49]				45	49	80.2	Census	1970 C
18726	Thailand	764	1970	1970	Women [50-54]				50	54	72.7	Census	1970 C
18727	Thailand	764	1970	1970	Women [55-59]				55	59	65.0	Census	1970 C

- 271604 rows × 14 columns
- Ranges from 1970-2015
- Shows the marital status of the population by age and sex for 232 countries or areas of the world.

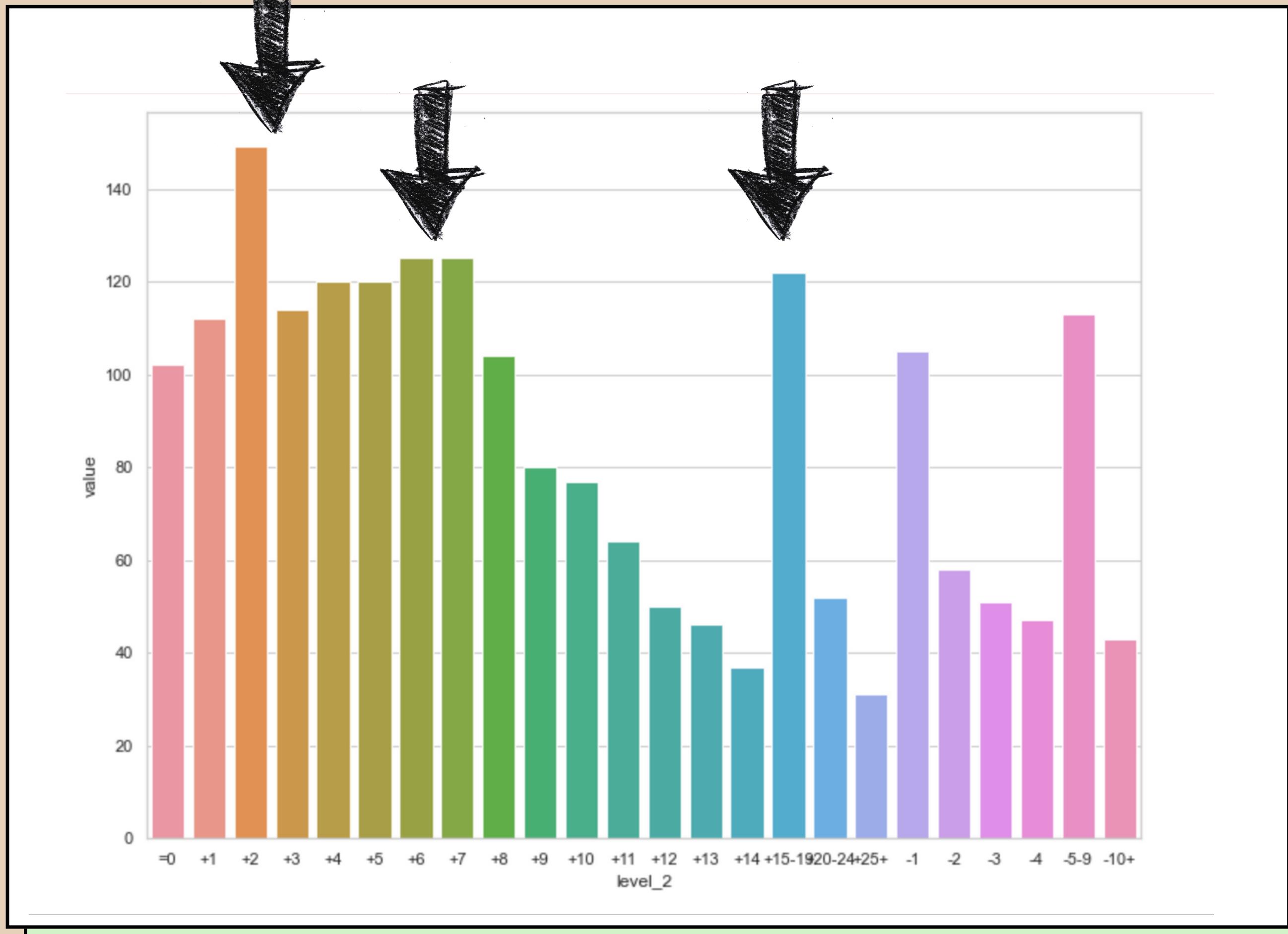
# Age variation of grooms during first marriages in 1984



First-time marriages in 1984  
the groom tends to be 1-3  
years older than the bride

Distribution is skewed to the  
right

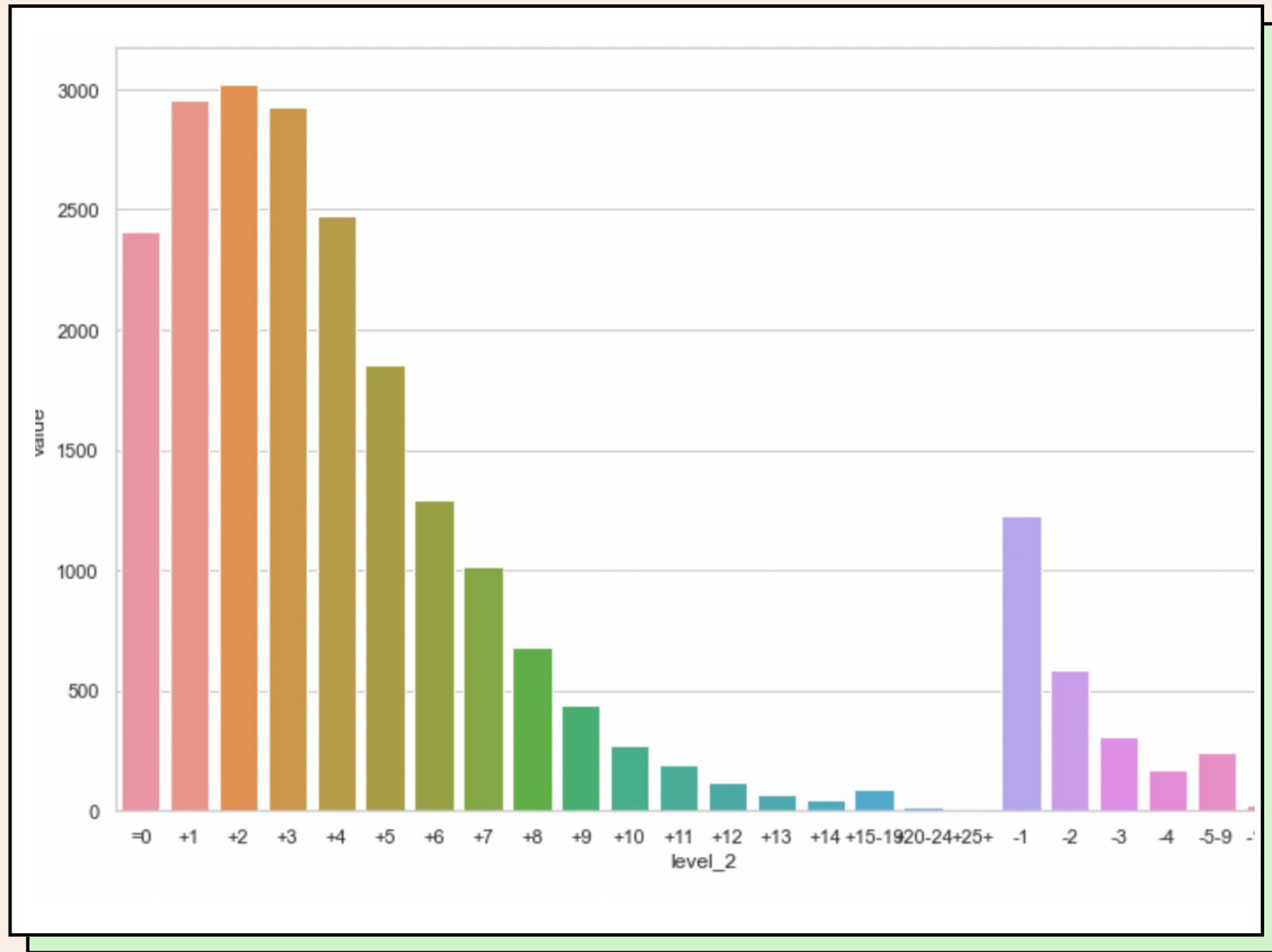
# Age variation of grooms during remarriages in 1984



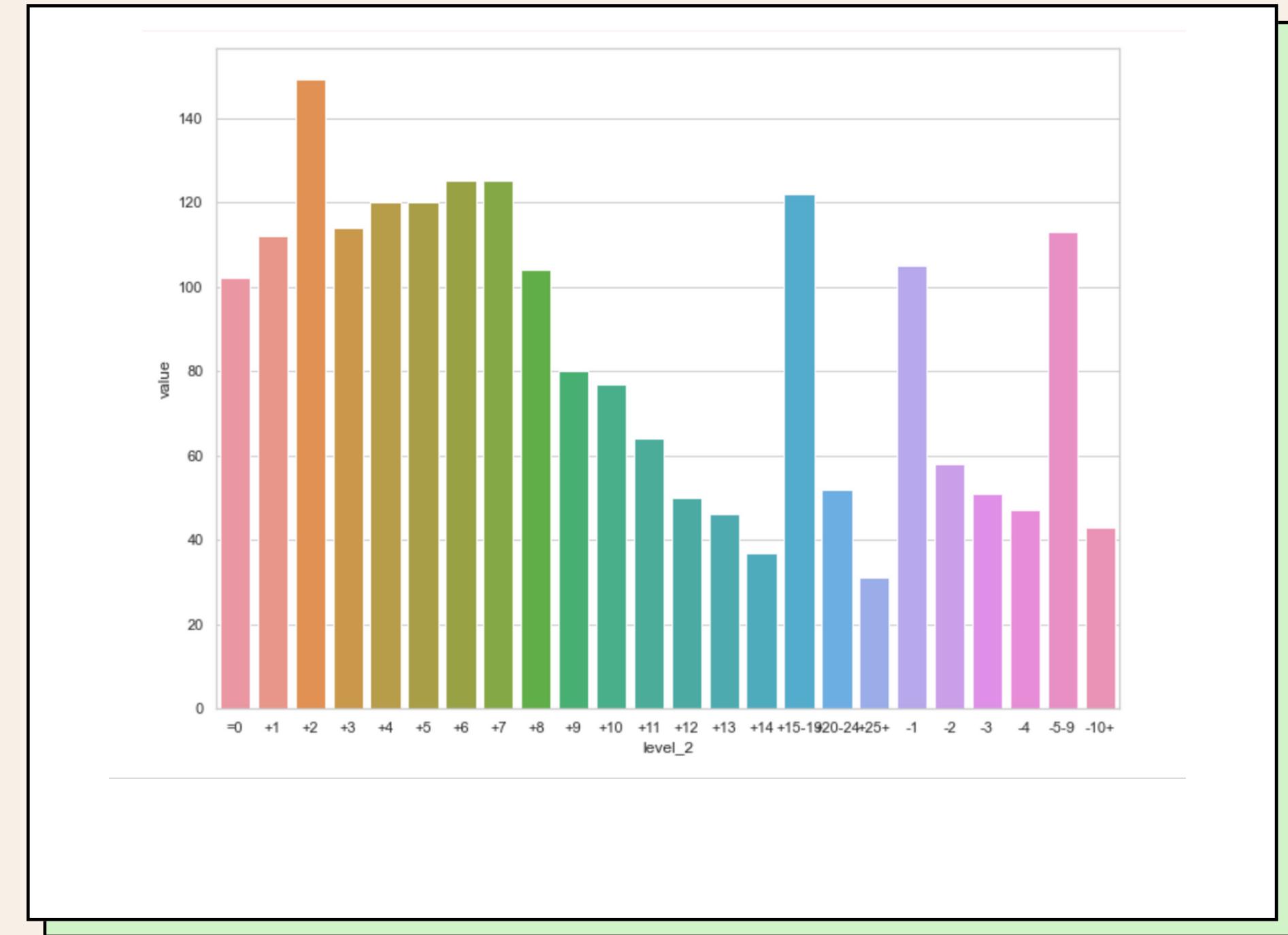
Remarriages in 1984 is very diverse in the groom's age, but we see that more commonly the groom is either 1 year older, 5-6 years older or 14-15 years older

1984

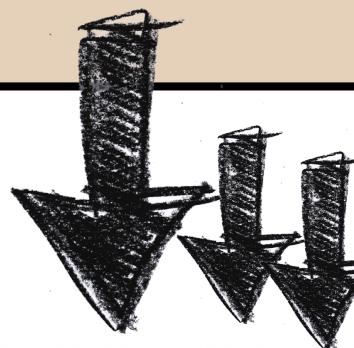
## First time marriage



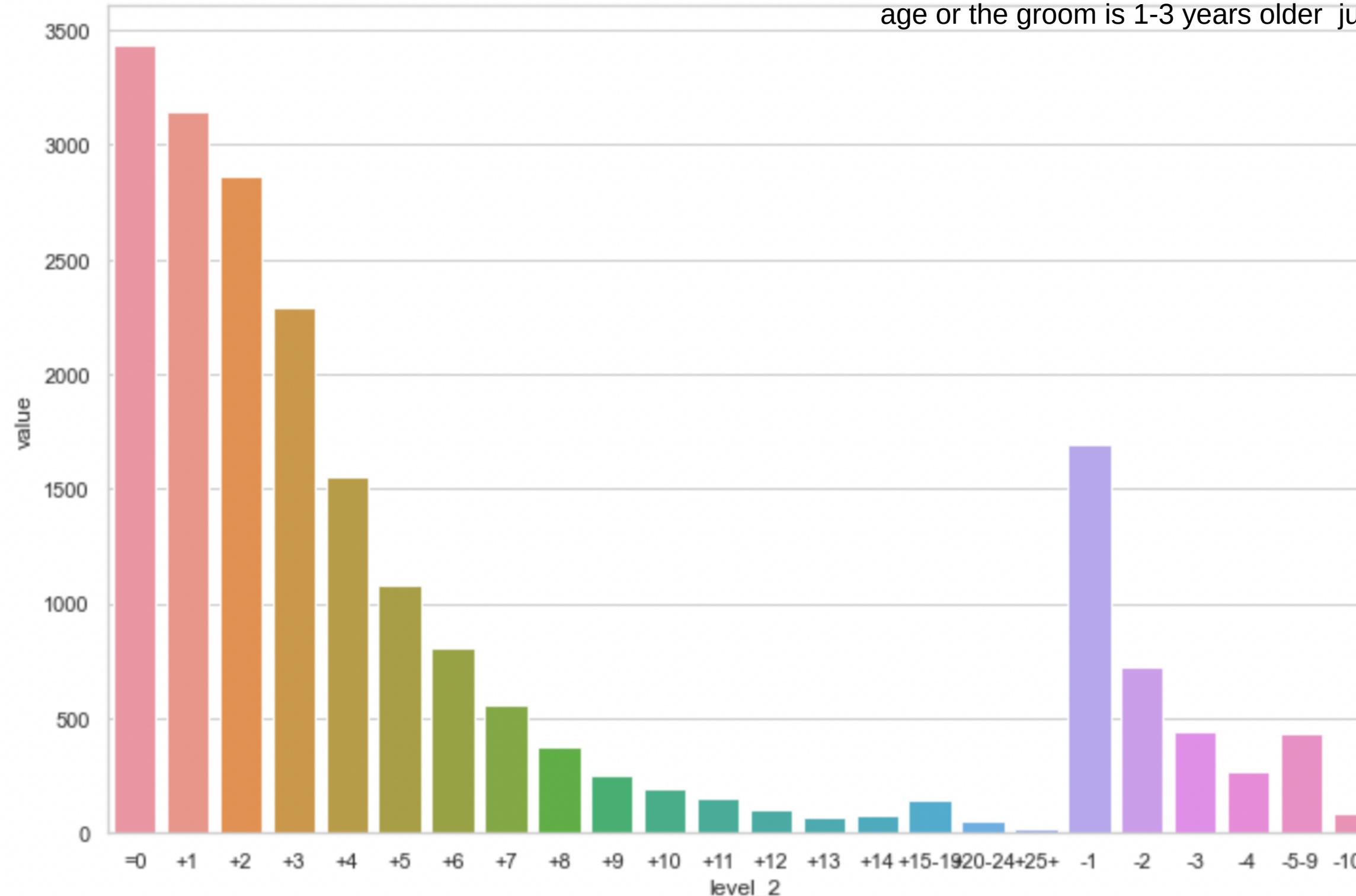
## Remarriages



# Age variation of grooms during first marriages in 2018



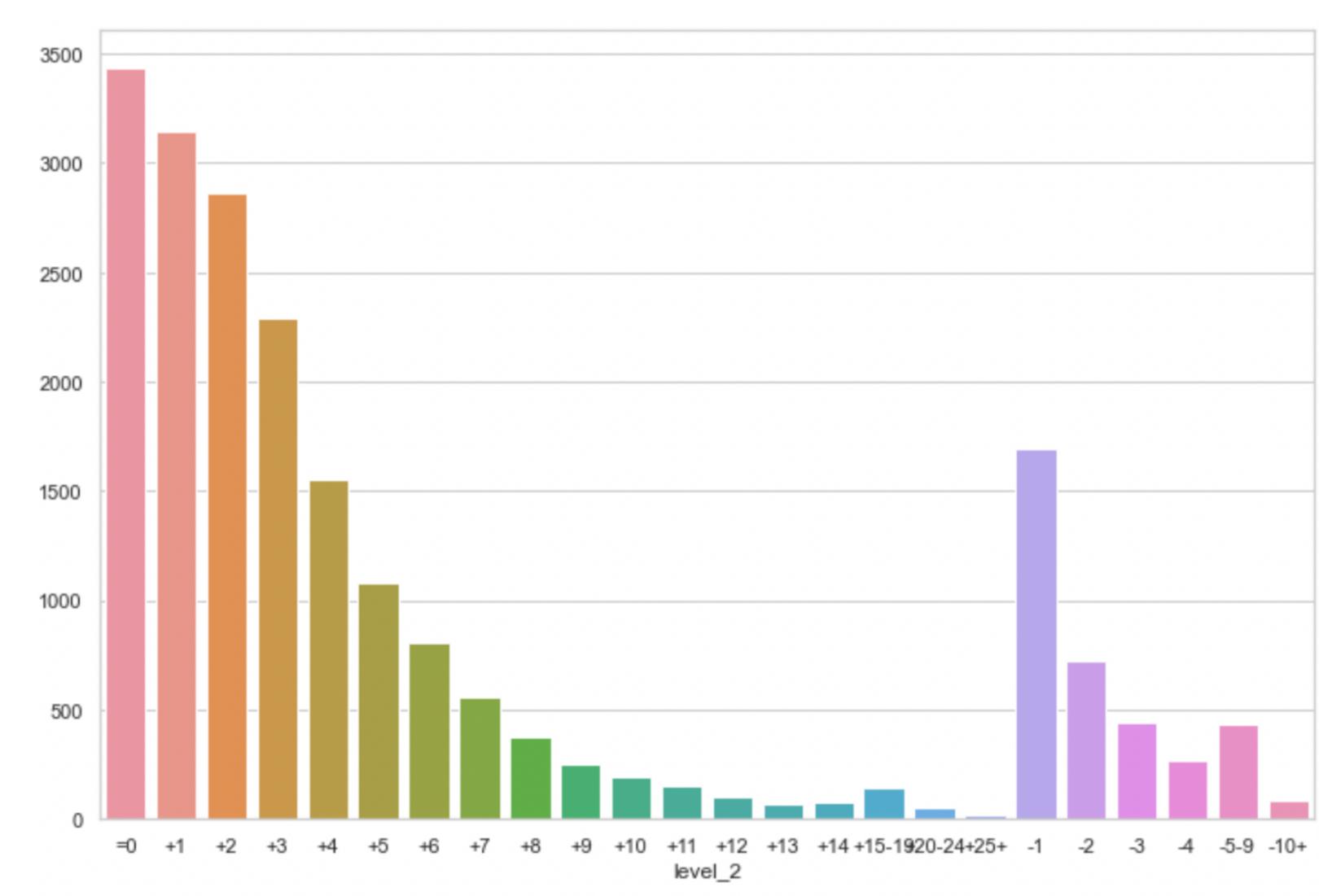
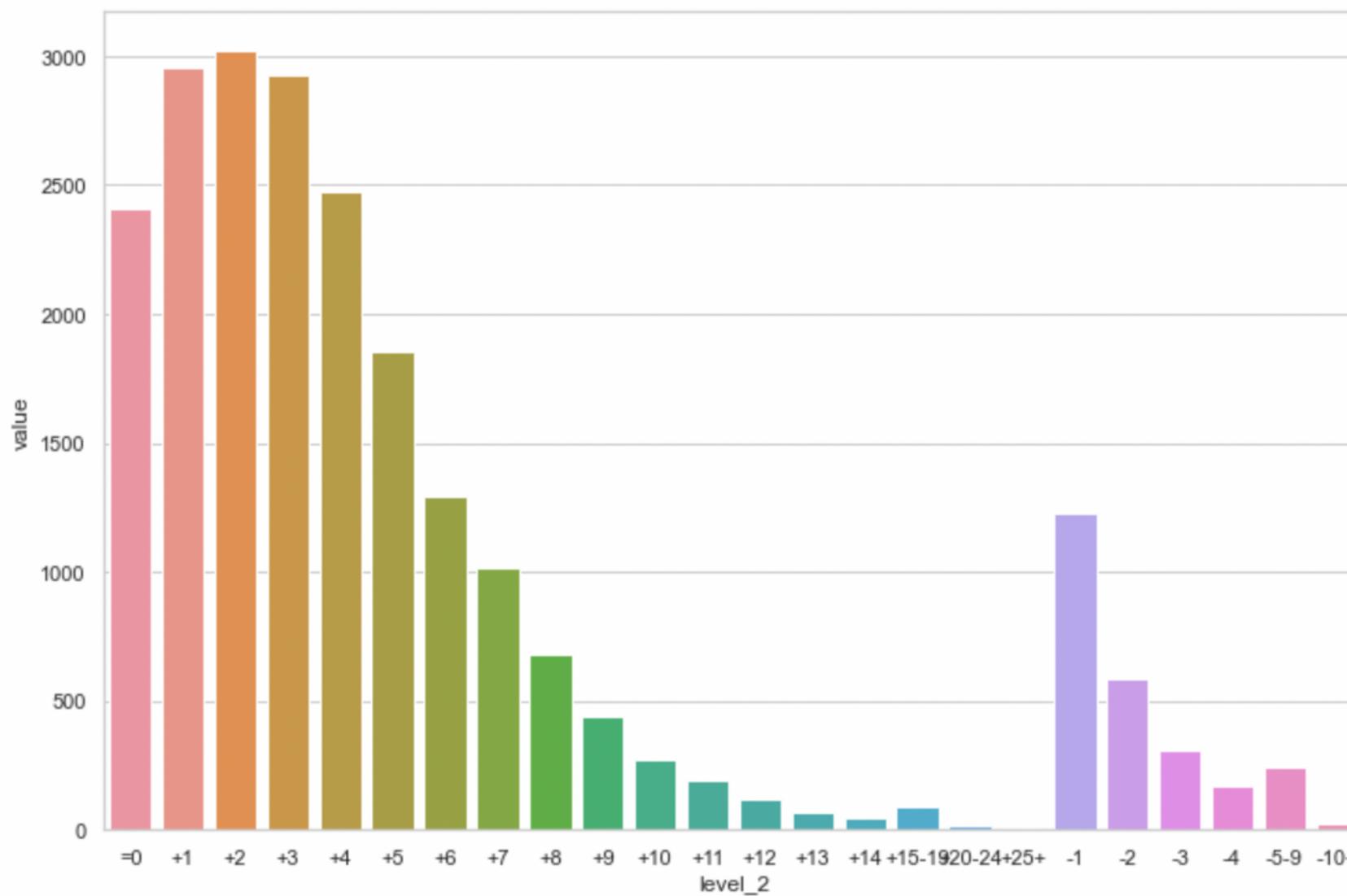
The same trend repeats a little in 2019, but instead, this year is more common for women to marry men who are the same age as them. It is more common that the bride and groom are the same age or the groom is 1-3 years older just like in 1984.



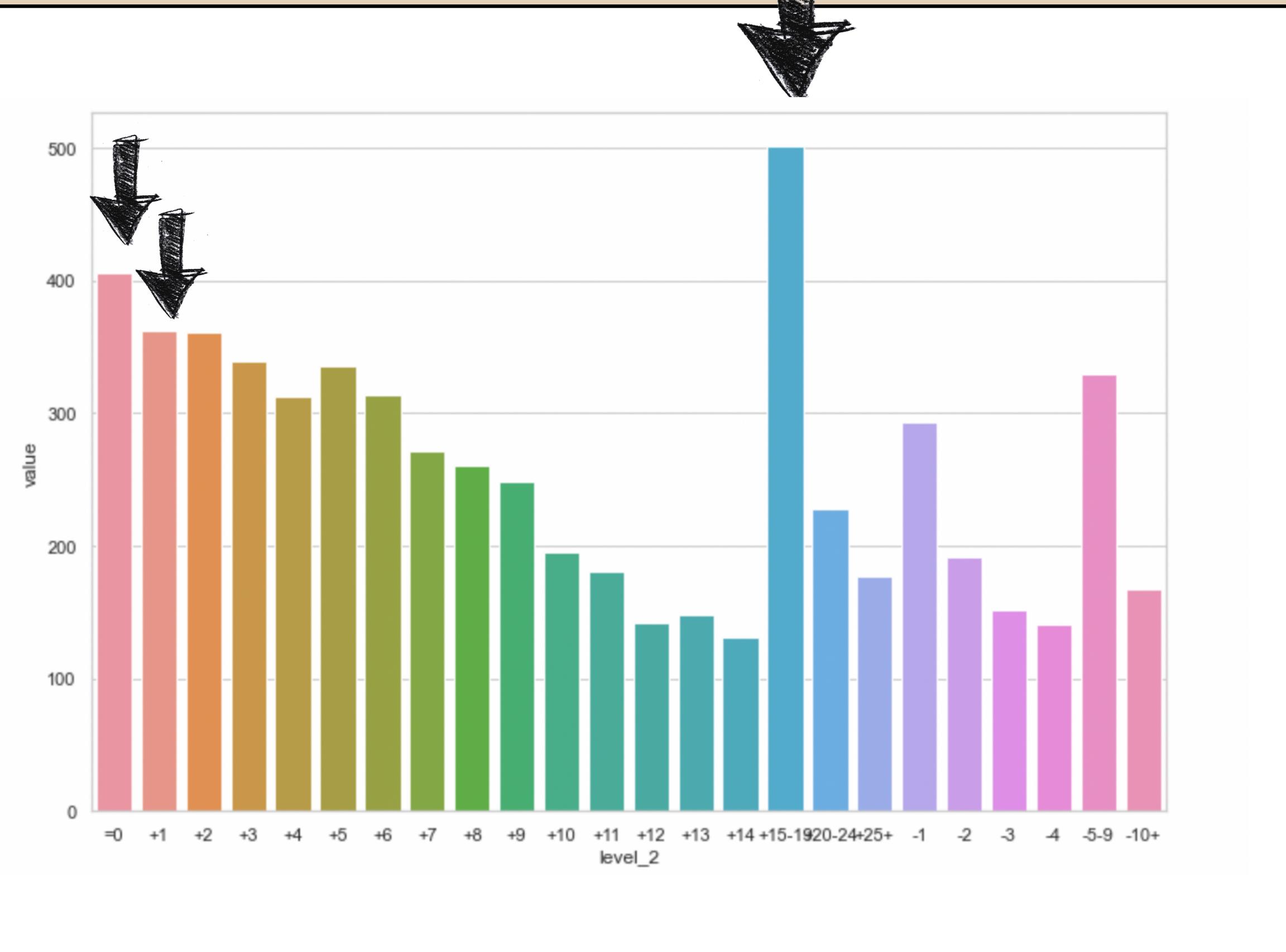
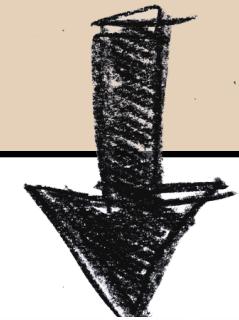
# First time marriage

1984

2018



# Age variation of grooms during remarriages in 2018

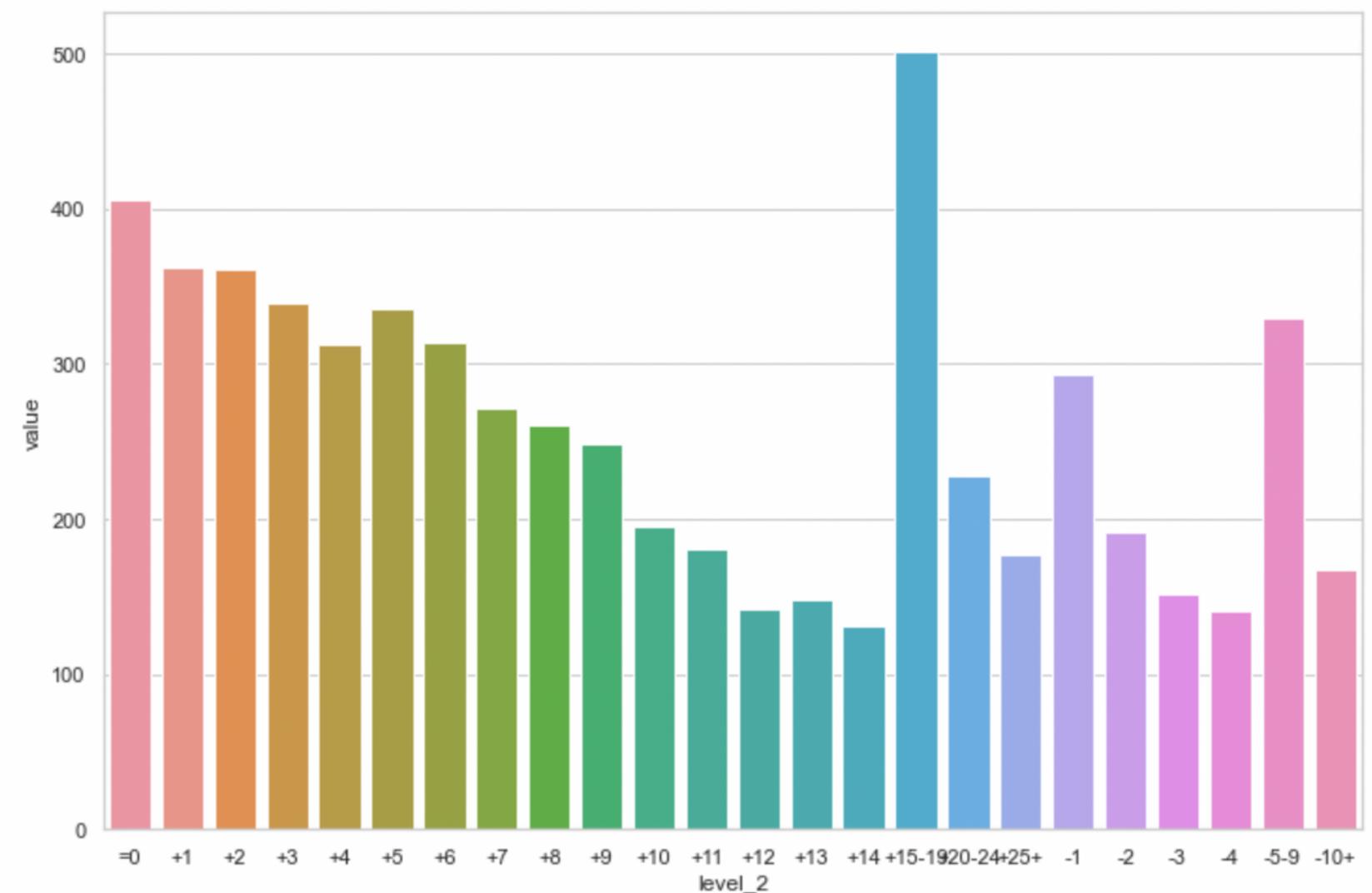
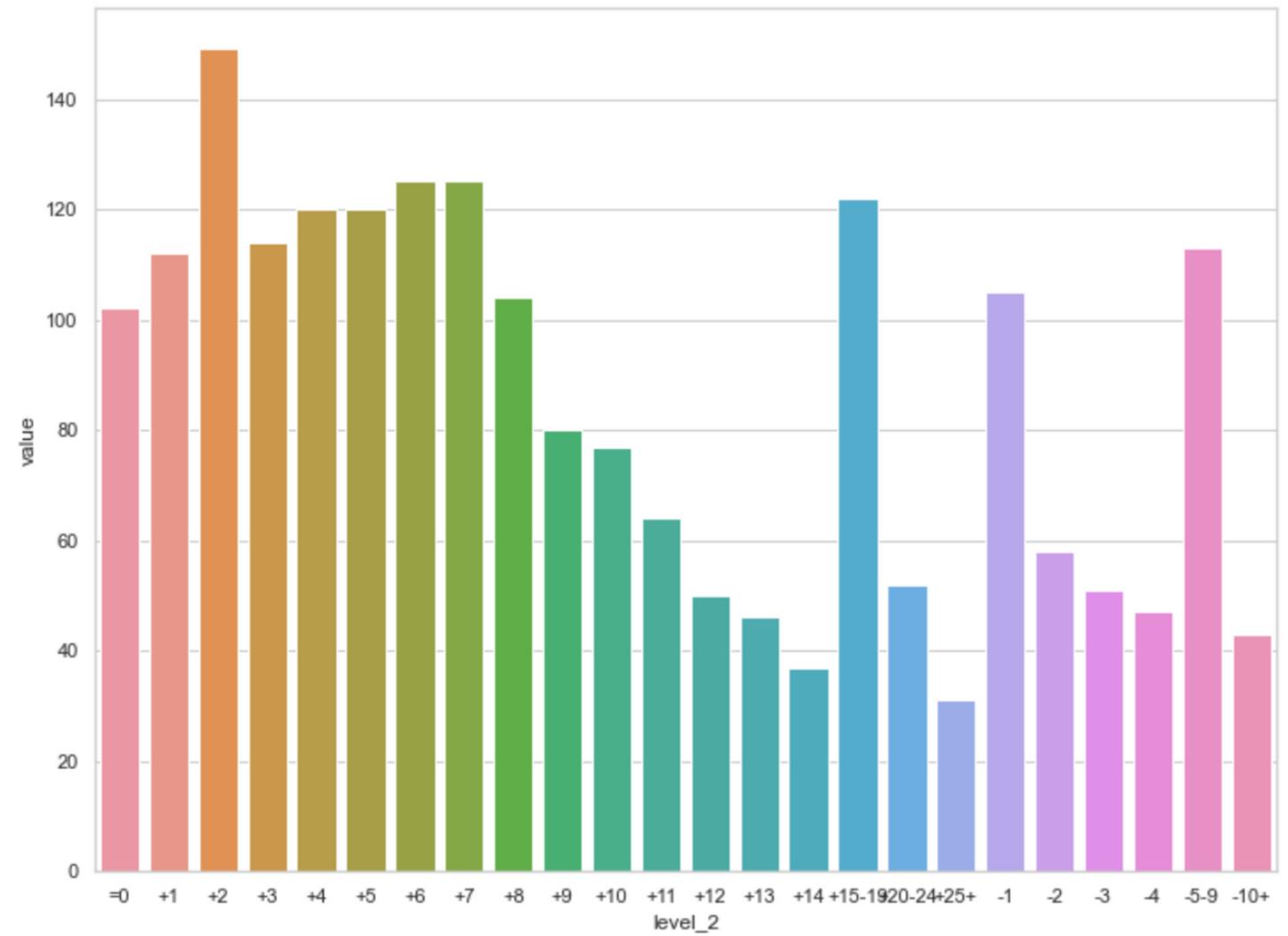


In 2018, during remarriages there was a jump in decision making, women were more likely to remarry men 15-19 years older than they were or at the same age as them or similar in age  
This was a very interesting observation for me

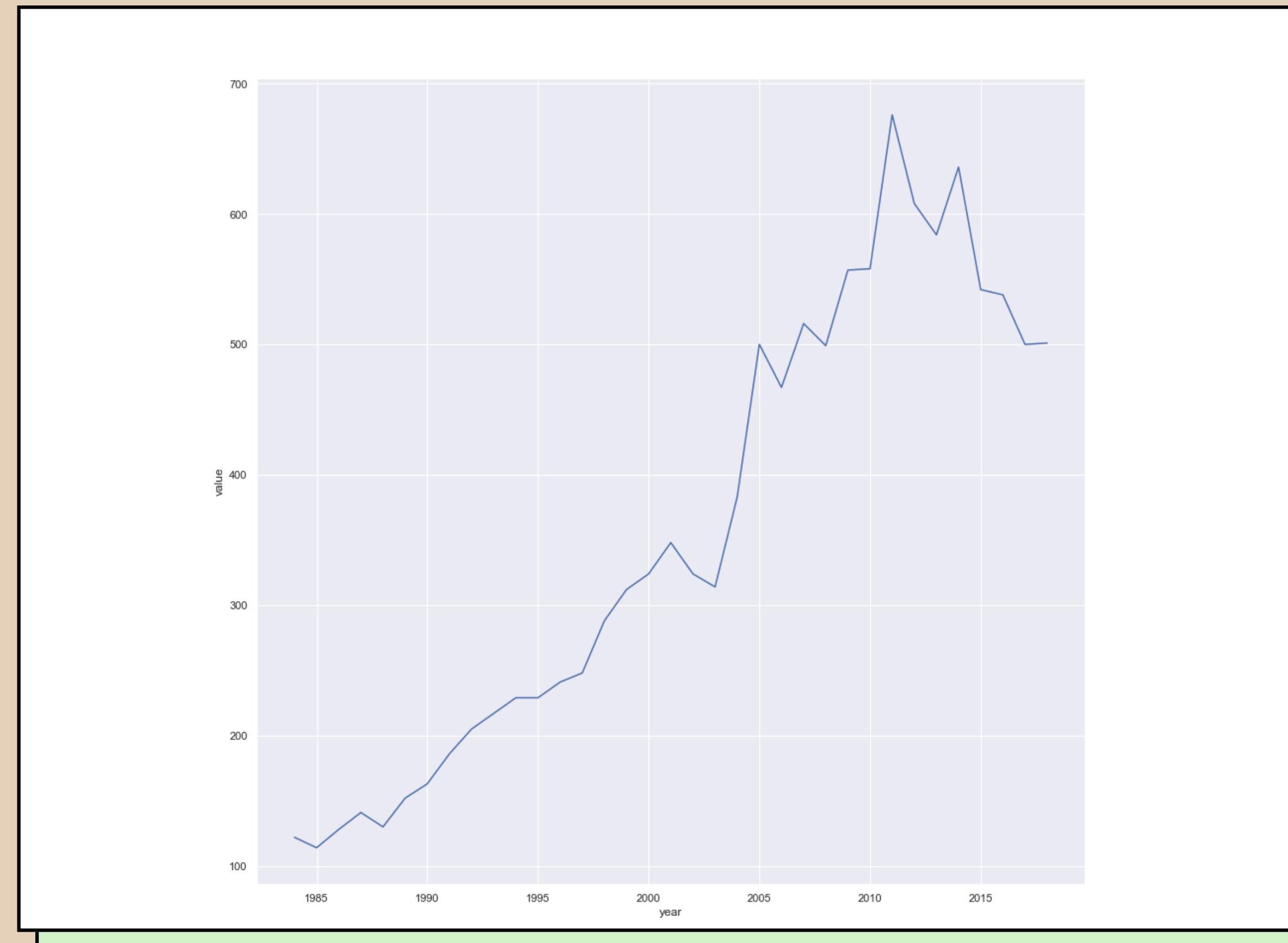
# Remarriage

1984

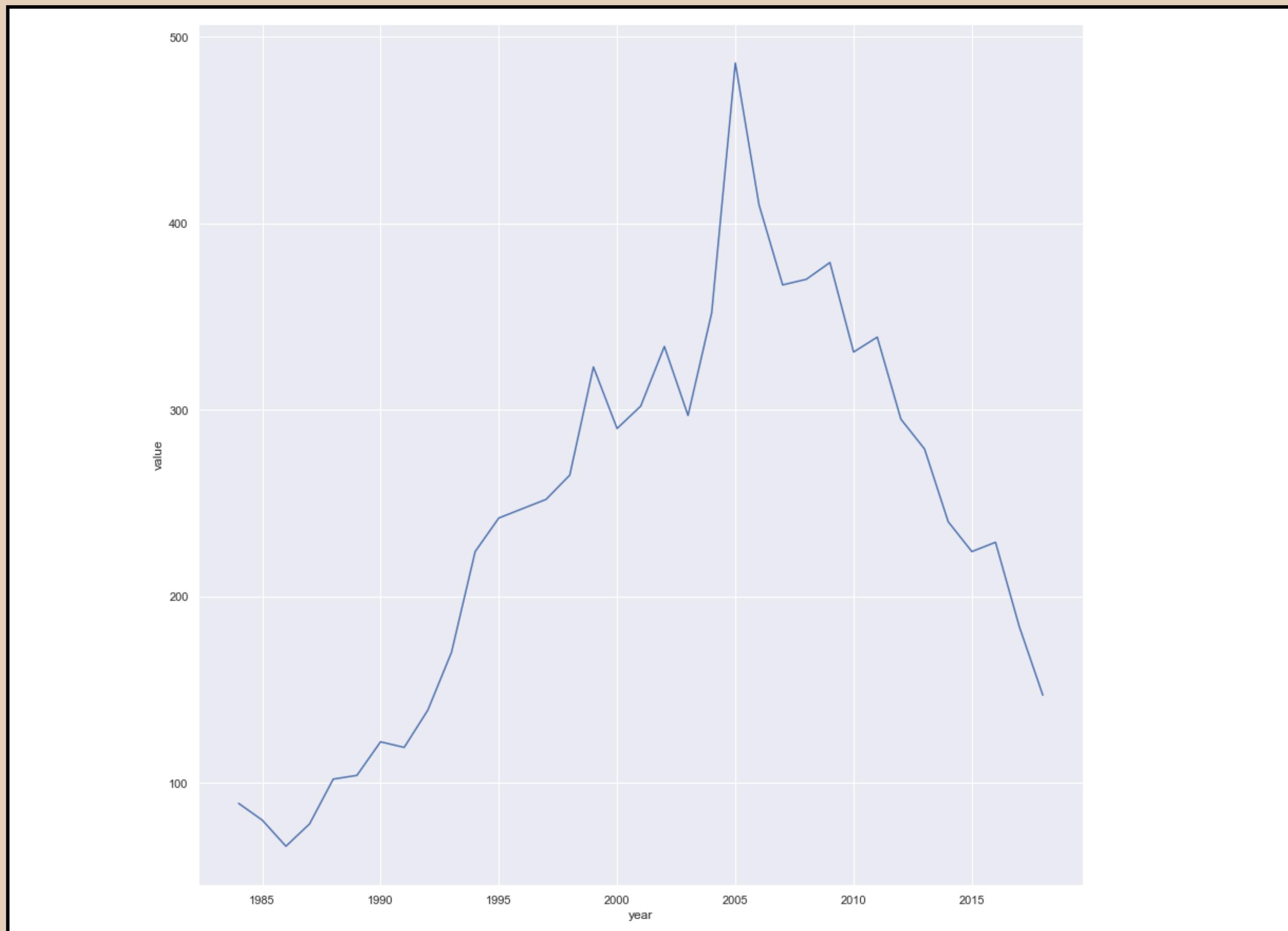
2018



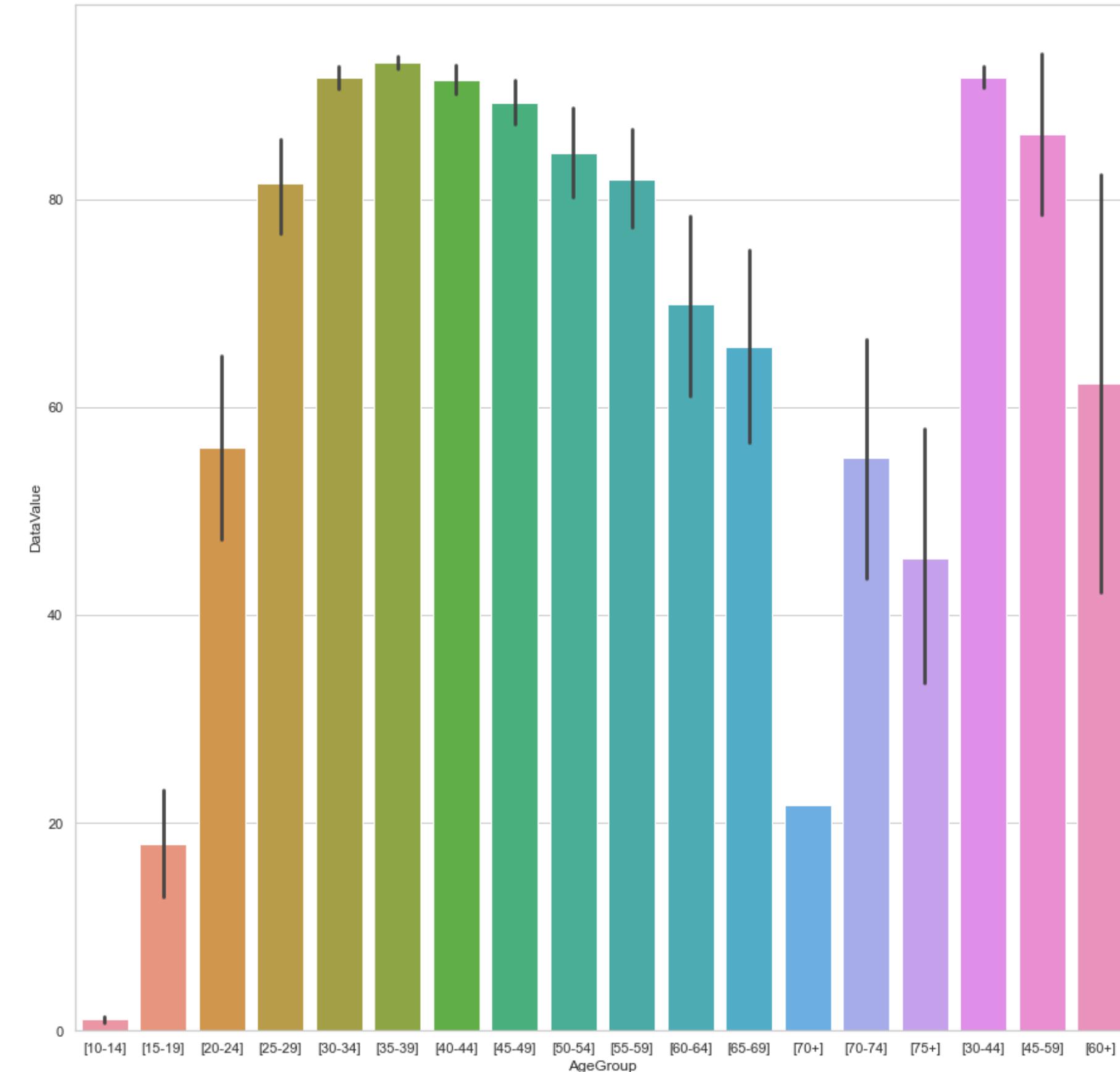
Trend from 1984-2018 of remarriages whose grooms are 15-19 years older



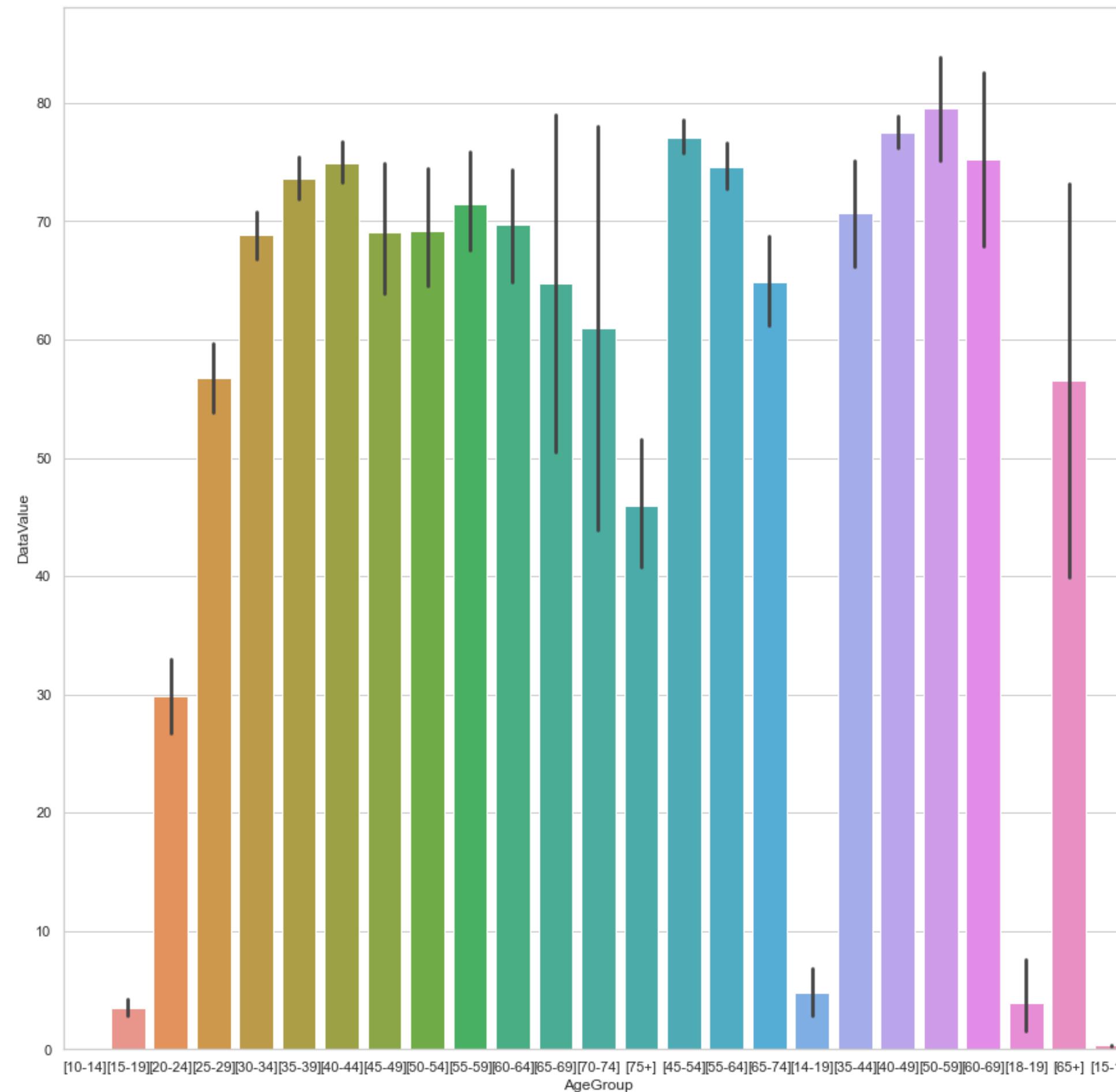
Trend from 1984-2018 of first marriages whose grooms are 15-19 years older



# Analyzing age range of the Indian population of participants in study

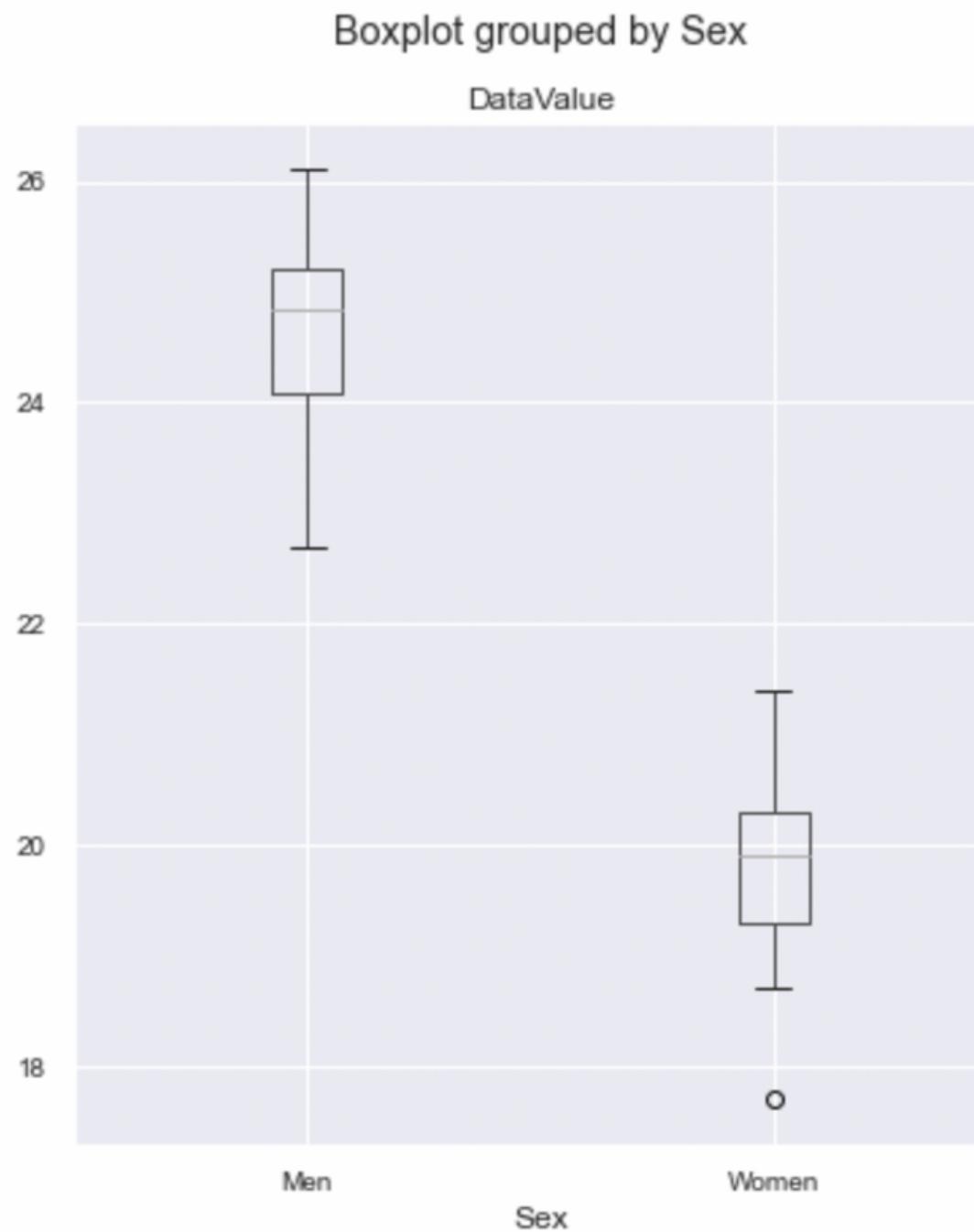


# Analyzing age range of the US population of participants in study

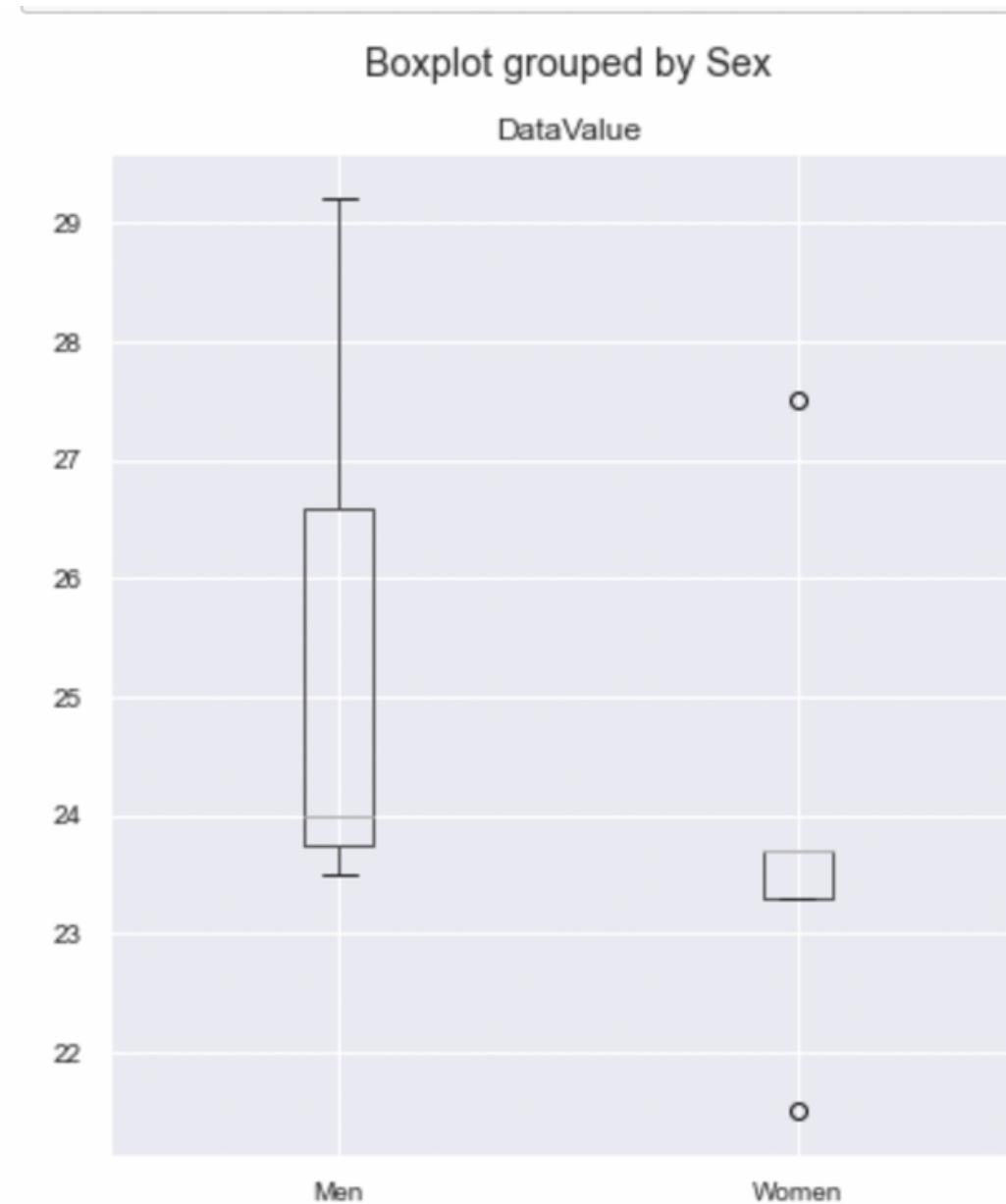


# Average Age of First time marriages in the US vs India

India



USA



Results Show that on average in India, men and women tend to marry at younger ages than in the US, and in both countries women tend to marry at younger ages than men

This may be one of the reasons why the data shows that women tend to marry men who are older than they are

# Future Steps

## Step 1

Analyzing more  
into the UN Data

## Step 2

Create  
visualizations  
using the UN Data

## Step 3

If there is time  
build a ML model  
using pyspark to  
predict marriage  
patterns



# Statistics Citation

- 📞 [https://data.gov.sg/dataset/total-marriages-by-marriage-order-and-age-differential-of-grooms-to-brides-annual?view\\_id=bcc5d84c-1fc0-45b5-b6b9-1e6e250803c1&resource\\_id=40e0f743-8ecc-483c-b76e-28ab78331916](https://data.gov.sg/dataset/total-marriages-by-marriage-order-and-age-differential-of-grooms-to-brides-annual?view_id=bcc5d84c-1fc0-45b5-b6b9-1e6e250803c1&resource_id=40e0f743-8ecc-483c-b76e-28ab78331916)
- 📷 40e0f743-8ecc-483c-b76e-28ab78331916

UN Data