

Canadian Family...*

My subtitle if needed

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Abstract

First sentence. Second sentence. Third sentence. Fourth sentence...Then we demonstrate possible concerns of Canadian families... In addition, we will give suggestions to improve their life quality.

1 Introduction

Different aspects of the Canadian society has entered a relatively stable stage in the past few decades, such as its economy and politics. However, it doesn't mean that the Canadians haven't been experiencing changes that drastically affect their lifestyles. Factors including social policies and technology advancements have greatly shift the Canadians' ideology, values, and one of the most common change is their attitude towards marriage. Surveys have shown that more than half of the Canadians see no reasons in getting legally married (Khoo 2018). They tend to form common low relationships or simply stay single, because from their perspectives, it seemed like marriages are more likely to end up in a mess than happiness.

The General Social Survey(GSS) conducted a survey on the topic of Canadian Families in 2017 (Canada 2020). By utilizing the data collected from the survey, we found that married people are actually more likely to be happier about their lives, which contradicts to many people's perception about marriage and family. In order to understand how this controversy is formed, this paper aims to explore the different possible factors that affect the happiness of single and married people, such as age, sex, marital status, personal income, average working hours and so on. The survey data is thoroughly discussed in the section of 2. In the sub-section 2.1, we presented an overview of the original survey data, and explained our cleaned dataset that we'll for exploration. In the sub-sections 2.2, 2.3, and 2.4,

2 Data

2.1 Dataset of interest

The survey we utilized in this paper comes from the General Social Survey(GSS) of Canada in 2017 (Canada 2020). The GSS program, founded in 1985, designed and conducted surveys targeting Canadians and focusing on different aspects of life each year. The purpose of those surveys was to collect enough data to investigate potential social issues faced by Canadians, seek for approaches to address these issues, and improve their life quality and personal wellness. This paper selected the GSS which focused on the topic of evolution of Families. This questionnaire has a total of 20602 samples and 460 variables. Its target respondents are the people who live in Canada who are older than 15 (Canada 2020).

This paper focused on investigating 6 of these variables: age, family income, sex, average working hours, and feelings about life. R (R Core Team 2021), and R packages "tidyverse" (Wickham et al. 2019), "janitor" (Firke 2021), "knitr" (Xie 2021), "dplyr" (Wickham et al. 2021), and "kableExtra" (Zhu 2021) are utilized to create an extract of the cleaned dataset (Table 1).

*Code and data are available at: <https://github.com/dujiayi1/Factors-that-affect-happiness>.

Table 1: Extracting the first ten rows from the cleaned GSS Family survey dataset

Age	Feelings about life	Sex	Marital status	Average hours worked	Family income	Personal income
52.7	8	Female	Single, never married	30.0 to 40.0 hours	\$25,000 to \$49,999	\$25,000 to \$49,999
51.1	10	Male	Married	50.1 hours and more	\$75,000 to \$99,999	Less than \$25,000
63.8	8	Female	Single, never married	30.0 to 40.0 hours	Less than \$25,000	Less than \$25,000
15.7	10	Male	Single, never married	0.1 to 29.9 hours	Less than \$25,000	Less than \$25,000
40.3	6	Female	Single, never married	50.1 hours and more	\$25,000 to \$49,999	\$25,000 to \$49,999
56.8	6	Female	Married	Don't know	\$75,000 to \$99,999	Less than \$25,000
30.6	9	Female	Single, never married	30.0 to 40.0 hours	\$25,000 to \$49,999	\$25,000 to \$49,999
68.8	9	Male	Married	30.0 to 40.0 hours	\$125,000 and more	\$125,000 and more
33.8	8	Female	Single, never married	40.1 to 50.0 hours	\$75,000 to \$99,999	\$75,000 to \$99,999
25.5	8	Male	Single, never married	30.0 to 40.0 hours	\$25,000 to \$49,999	\$25,000 to \$49,999

Table 1 shows the first ten rows of the GSS Family dataset of interest. Variable “Age” indicates the age of the survey respondents. Variable “Feelings about life” indicates how the respondents generally feel about their life from a scale of 0 to 10. Variable “Sex” indicates the sexuality of the respondents. Variable “Marital Status” gives information on whether the respondents are single, living common-law, married, separated, divorced, or widowed; in this paper, we are only interested in the respondents who are either single or married. Variable “Average hours worked” shows the weekly working hours of the respondents. Variable “Family income” represents the total income of the family from all possible sources. Variable “Personal income” provides the personal income of the respondents from all possible sources.

2.2 Methodology

The survey questions were tested by Statistics Canada’s Questionnaire Design Resource Center beforehand. Screened participants from two cities were selected to complete the questionnaire. Based on the feedback of these participants, questions were improved to enhance the effectiveness of the survey. The sampling frame of this survey was created by the Census and Statistics Canada’s dwelling frame. The respondents were accessed by landline and cellular telephone numbers, and only one member from each of the selected households was asked to fill the questionnaire. Stratified sampling was used to select the respondents. The Canadian population was divided into 27 strata based on the provinces and census metropolitan areas. Minimum number of random samples were picked from each of the strata to reduce the bias. Invitation letters were sent to the sampled households prior to the official survey to increase the response rate (Canada 2020).

2.3 Strengths

The response rate of GSS in 2017 is approximately 52.4%, which is a pretty high number. To make sure that the samples were representative of the target population, the survey data were applied by a weighting factor so that the outcome of the survey was more accurate. Confidentiality rules prevented the respondents’ personal information to be disclosed without permission (Canada 2020).

2.4 Weaknesses

Some questions which appeared to be quite sensitive to many respondents resulted in high non-response rates. For instance, respondents were generally unwilling to provide information about their incomes. As a result, the information about income was acquired by the tax returns filed by the respondents from the previous year, and the variable “income” was set to a categorical variable. However, this made the survey data collected much vaguer and less likely to reflect the true statistics of income. Some bias was associated with the GSS data. For instance, not all target population was covered by the sampling method. The group of households without telephones were not included in the sampled population, which potentially increased the bias of the survey data. Non-response bias was resulted from the group of sampled populations who did not respond to the survey (Canada 2020).

3 Results

3.1 Age

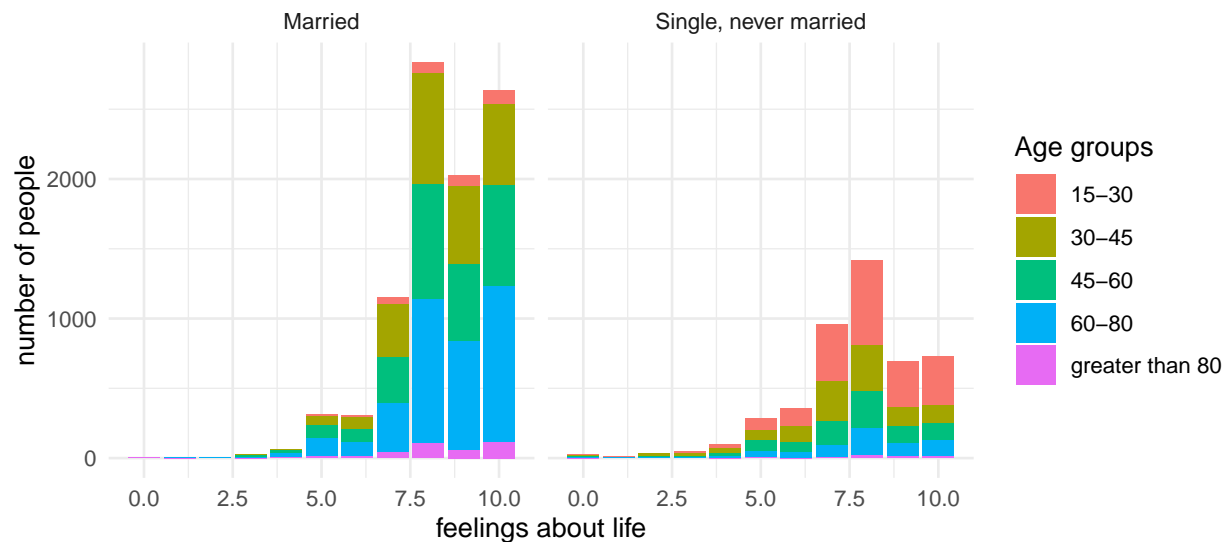


Figure 1: Comparing the rated feelings about life of different age groups between single and married people

Figure 1 demonstrates how different age groups of Canadians rate their lives and draws a comparison about this statistics between those who are married and those who're single and never married. Considering the fact that the number of singled respondents decreased by age, it is unreasonable to simply compare between the two plots. By looking at the samples who are single, we can observe that a higher proportion of younger age groups rated their feelings about life high(between 7 and 10), while on the contrary, a higher proportion of older people rated their feelings about life low(between 3 and 6). For the samples of married people, it's quite obvious that a much higher proportion of older people rated their feelings about life high(between 8 and 10).

3.2 Sexuality

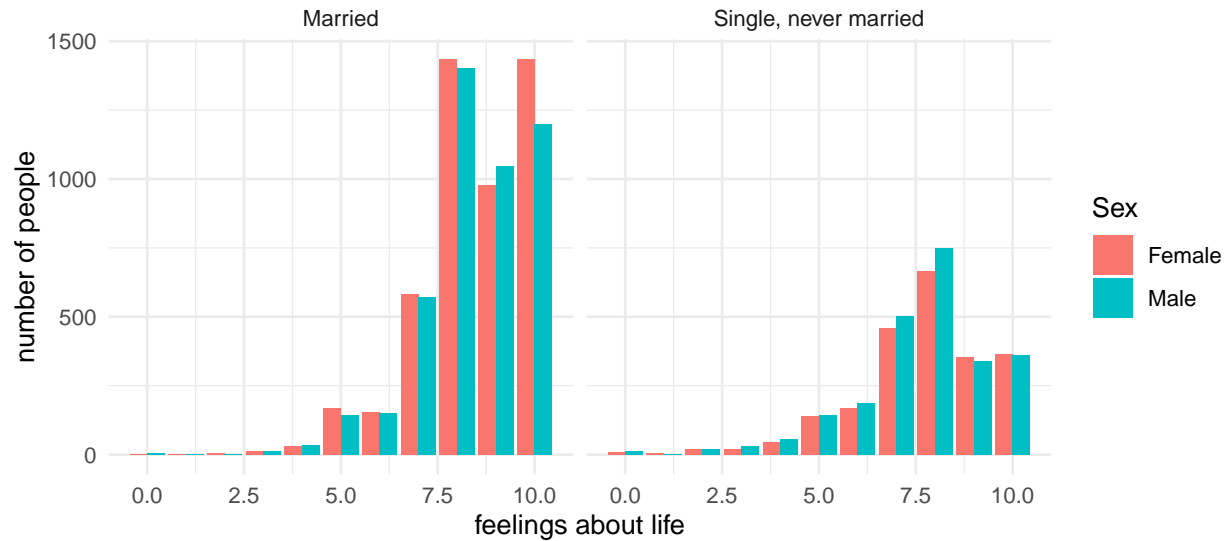
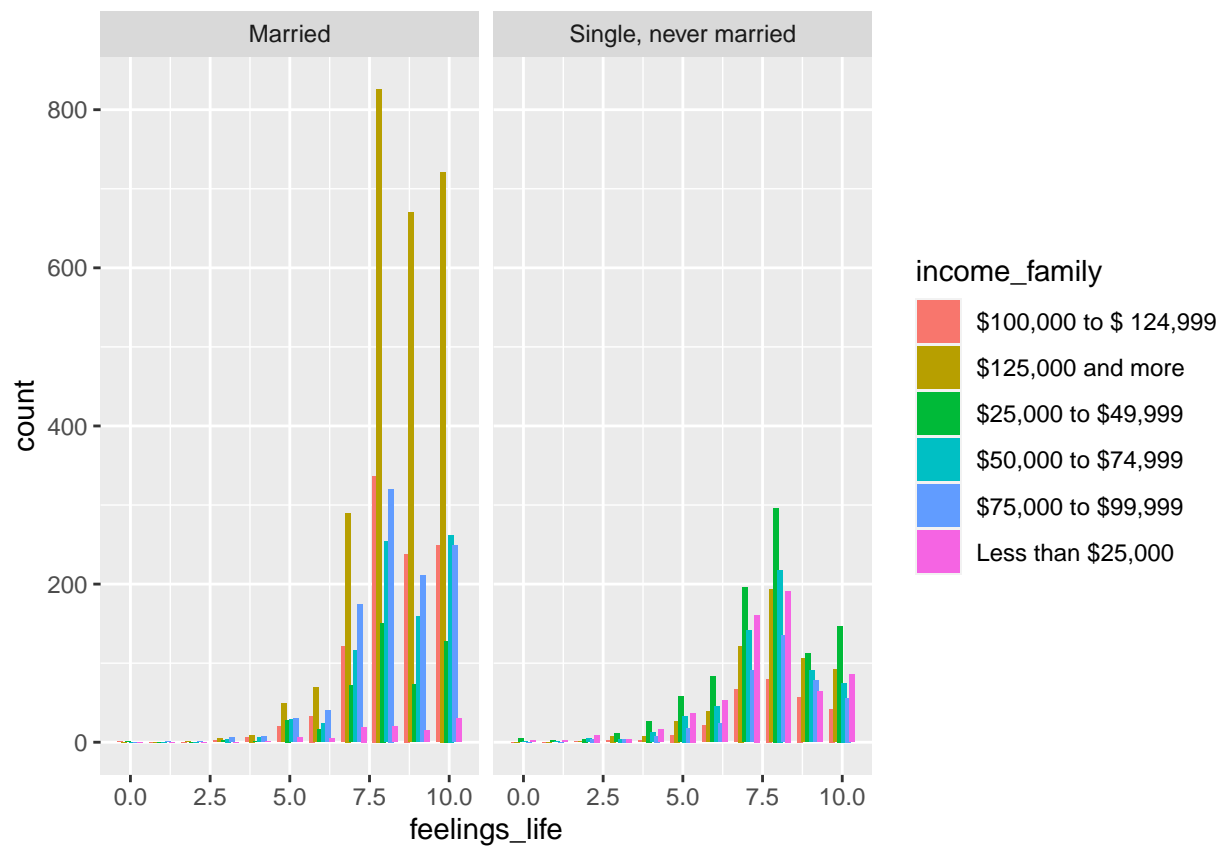
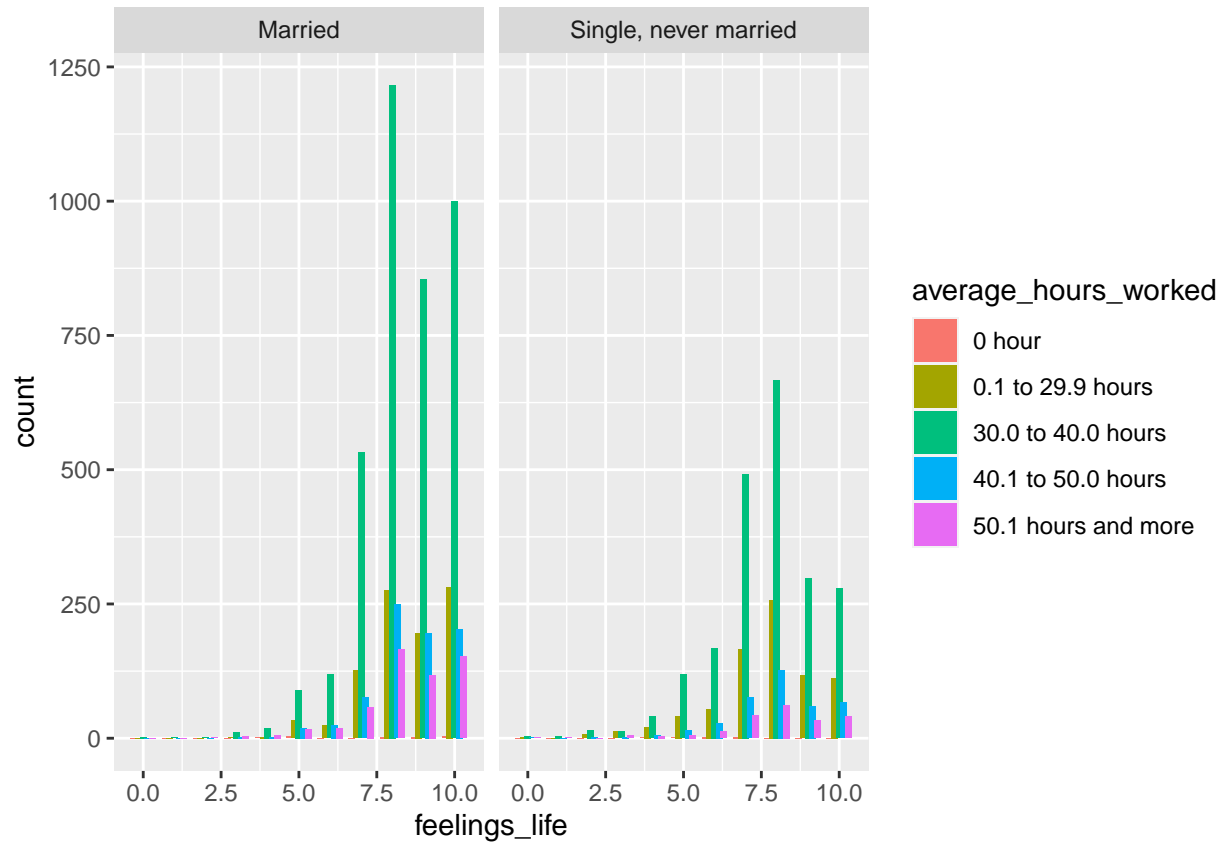


Figure 2: Comparing the feelings about life between male and female for single and married people

Figure 2 compares the feelings about life between female and male when they are married or single and never married. For the group of singles, sexuality does not have a distinct influence on how they rate their feelings about life. Slightly more males than females rated their feelings for life between 7 and 8, but the number break even again between 9 and 10. However, when it comes to married people, it seemed like some females tend to give extreme high scores(score of 10) on their feelings about life. This implies that for most of the times, sexuality is not a big contributor to one's satisfaction about his/her life when they are either single or married, yet it greatly increases some married females' happiness.





4 Discussion

5 Appendix

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