

# Analyses

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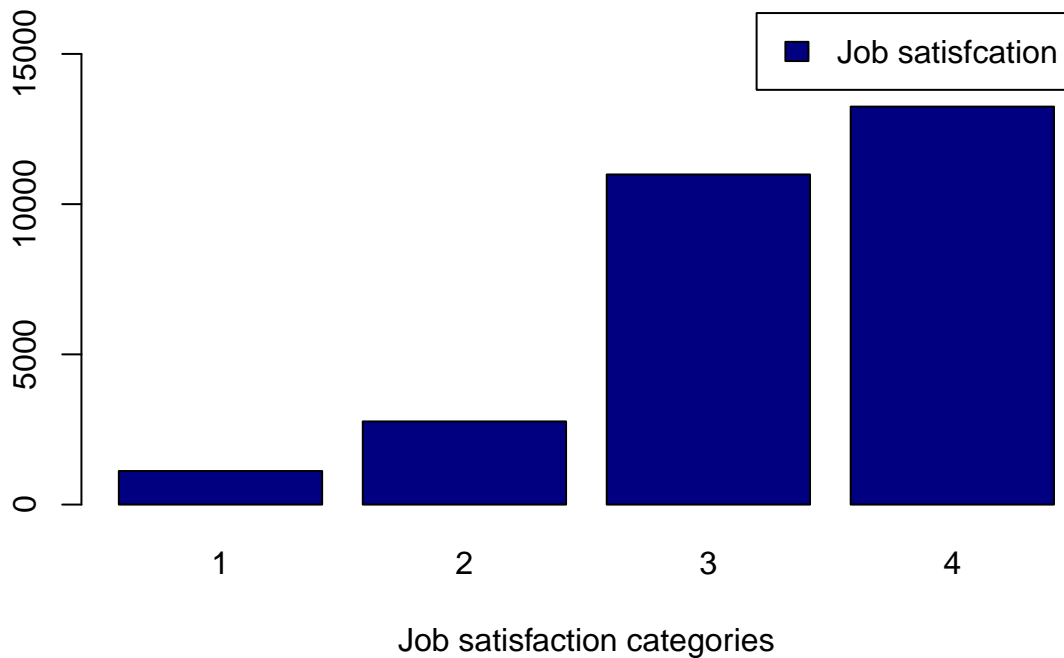
*14 Apr 2016*

```
if(!file.exists("data_final.rda")) {  
  source('data_combine.R')  
}  
  
# Opens data_final.rda if not already loaded as an object  
if(!exists("z.df" )) {  
  load("data_final.rda")  
}
```

## Descriptive results

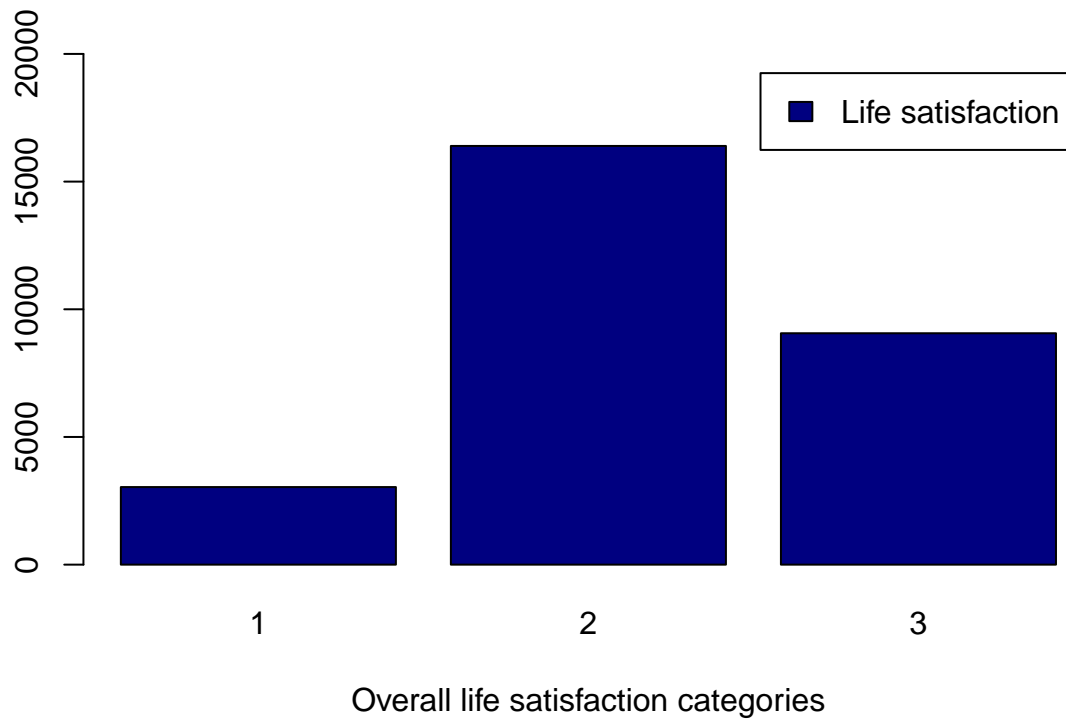
Distribution of happiness variables !should probably be in a table!

```
satjob.freq <- table(z$satjob)  
  
barplot(satjob.freq,  
  col=c("navyblue"),  
  xlab = "Job satisfaction categories",  
  legend = c("Job satisfcation"),  
  ylim = c(0, 17000)  
)
```



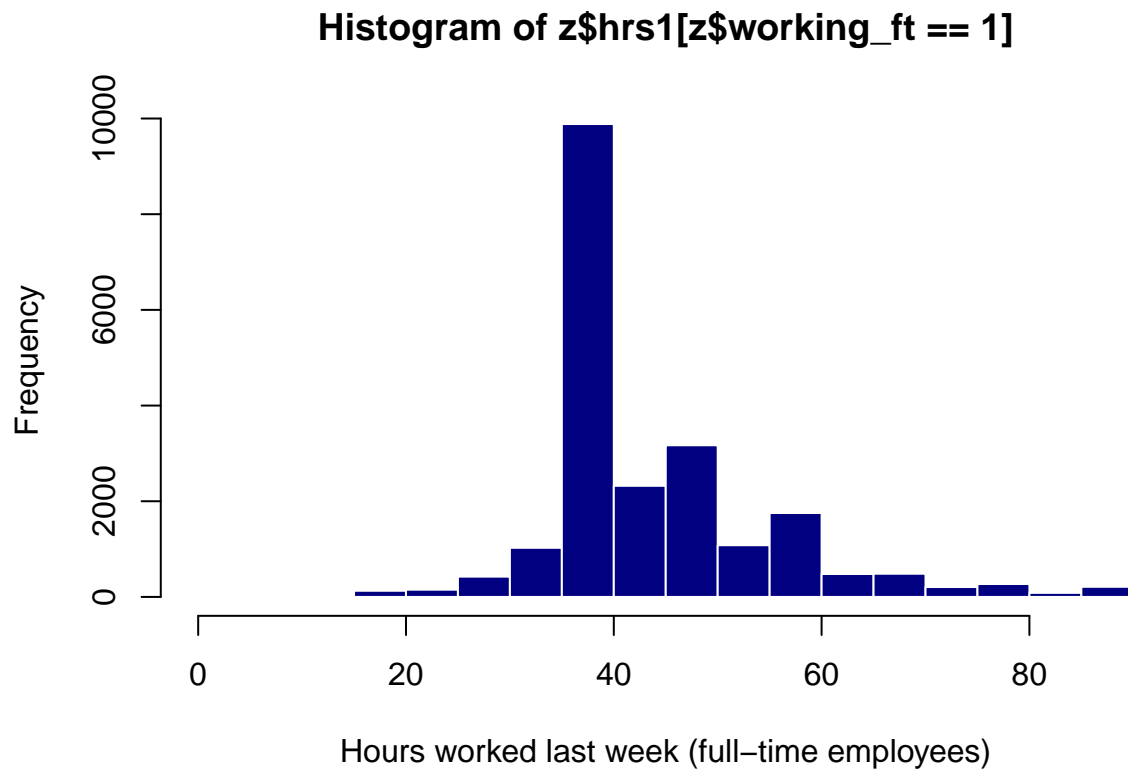
```
sat.freq <- table(z$happy)
```

```
barplot(sat.freq,
  col=c("navyblue"),
  xlab = "Overall life satisfaction categories",
  legend = c("Life satisfaction"),
  ylim = c(0, 20000)
)
```



## Distribution of work-hours for full-time workers

```
hist(z$hrs1[z$working_ft==1],
  col=c("navyblue"),
  border = "White",
  xlab = "Hours worked last week (full-time employees)"
)
```

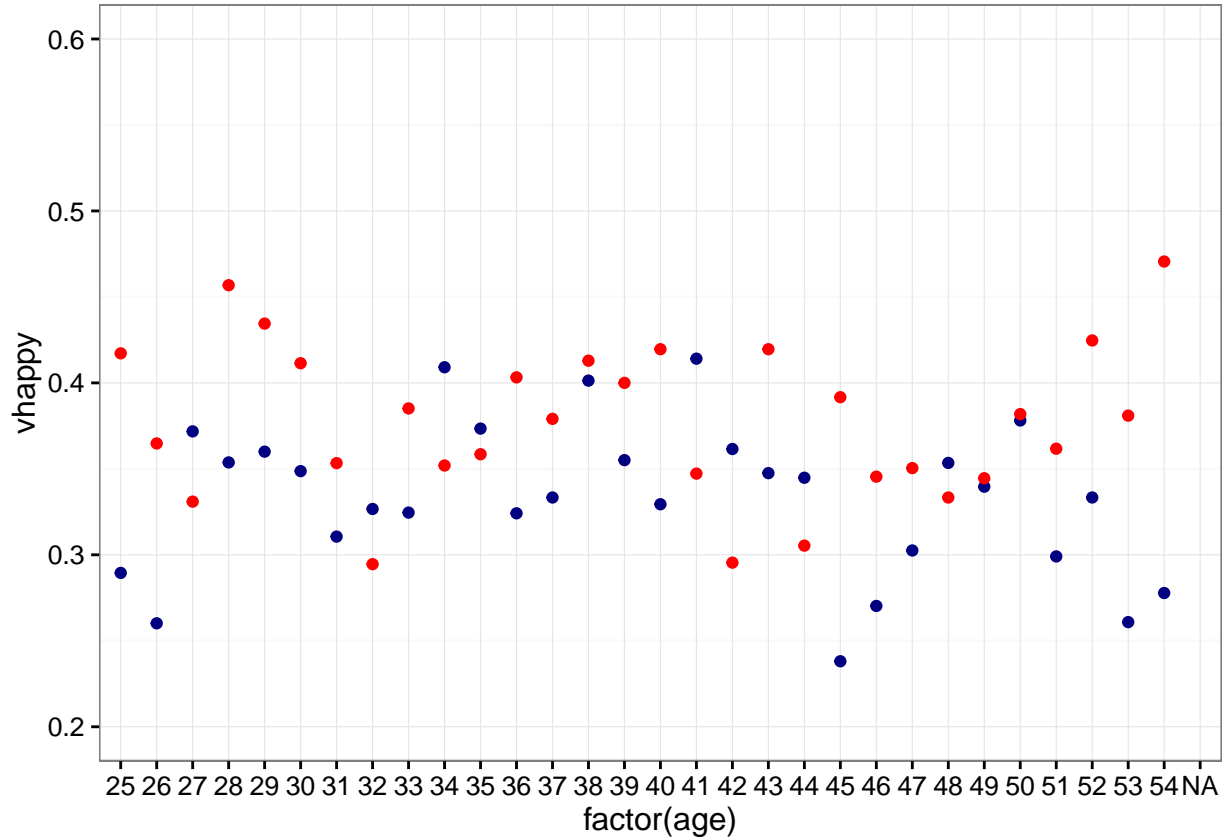


## Happiness for women and men at different ages

```
## Combined
t <- z
ggplot() +
  stat_summary(data = t[t$sex == 1 & t$educat == 4,], aes(x=factor(age), y=vhappy),
    fun.y="mean", geom="point", col="Navyblue") +
  stat_summary(data = t[t$sex == 2 & t$educat == 4,], aes(x=factor(age), y=vhappy),
    fun.y="mean", geom="point", col="Red") +
  expand_limits(y=c(0.2,0.6)) +
  theme_bw()
```

```
## Warning: Removed 374 rows containing non-finite values (stat_summary).
```

```
## Warning: Removed 439 rows containing non-finite values (stat_summary).
```



## Gender

In contemporary society the strive for gender equality often clashes with labour market realities and the persistence of traditional gender norms. Previous studies found that the reconcilability of having a family and pursuing a successful career is still difficult to achieve for women while it is rather the norm for men (e.g. Hipp reference). Thus, women who clash with traditional customs might face a “life happiness penalty” as shown in Bertrand (2013).

Figure 3 shows that gender only plays a role when people do not have a high income. For women (red) the probability to be very happy does not change with having a low income. Men (blue) on the other hand face a large happiness reduction when having a low income [the sample is limited to people with college education]. Figure 4 further differentiates in four possible combinations of having a family (married and kids) and having a high income job. Both, men and women, are happier when having a family. When not having a family, higher income improves life satisfaction for both genders although the increase is slightly larger for men. Differences become more pronounced when having a family. With a family but without a career women are the happiest, while men are considerably less happy, compared to having a career and a family. Thus, men and women interestingly have different career-family configurations under which they appear most happy.

**Figure 3: Happiness for women and men depending whether they have a career**

**Figure 4: Happiness for women and men depending on combination of having a career and a family**

## Interaction effects of married\*career for working men and women

In a second step we replicate a linear regression model by Bertrand (2013) which estimates the interaction effect of being married and having a high paid job (career) on the binary variable being very happy. While Bertrand (2013) limits her analysis on college-educated women who are working we compare these findings to the respective male group. The model controls for age, age-squared, the survey year, race and decade of birth.

Figure 5 shows the effect of the interaction term on the probability of being very happy. On the left-hand side the effect of marriage on life satisfaction is stronger for women who do not occupy a high paying job. For women who have a high paying job, however, the effect of marriage on life satisfaction is much weaker. Although this difference is not significant at the 5% level, the career effect is much stronger than for men where having a career or not hardly influences the effect of marriage on happiness.

**Figure 5: Interaction effects of being married and high income job on life satisfaction**

**Figure 6: Interaction effects of family-career for working men and women**

## Software and packages used for the analysis

The analysis is done in R [CiteR] with the use of the following packages: “doBy” [R-doBy], “ggplot2” [R-ggplot2], “repmis” [R-repmis] and “dplyr” [R-dplyr].