

Tutorial 7

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Display of the revised data tibble

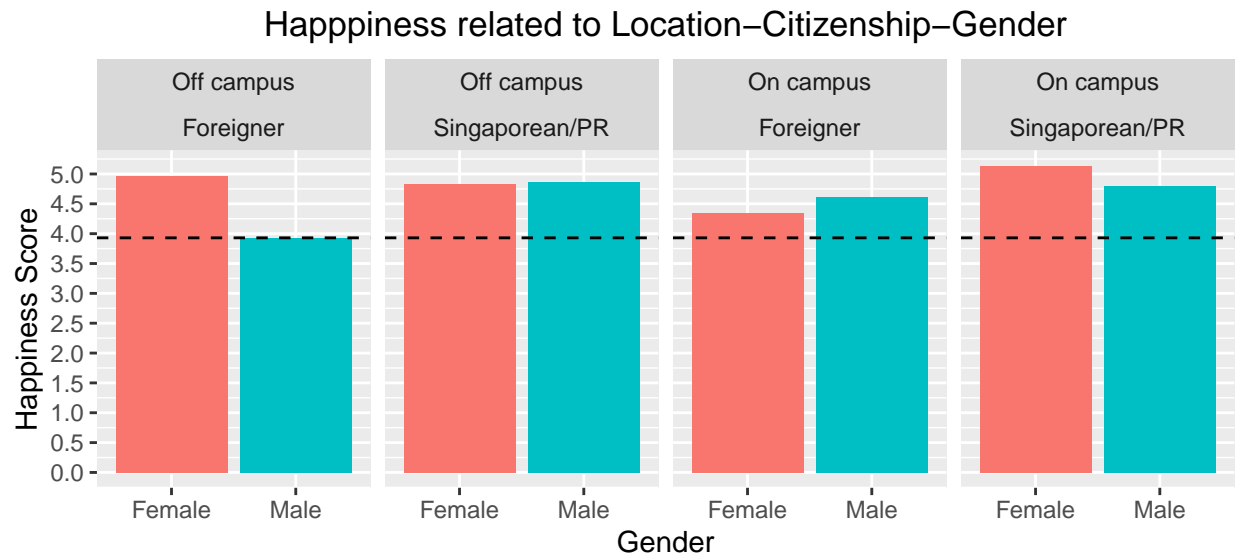
```
##   id   Citizenship   Location Gender happ_score df
## 1  1 Singaporean/PR Off campus      F   3.241379 105
## 2  2      Foreigner  On campus      M   2.827586 105
```

Raking of the data

```
##           mean      SE
## happ_score 3.6391 0.0436
```

Plot 1: Visualising happiness level of male and female from each combination category

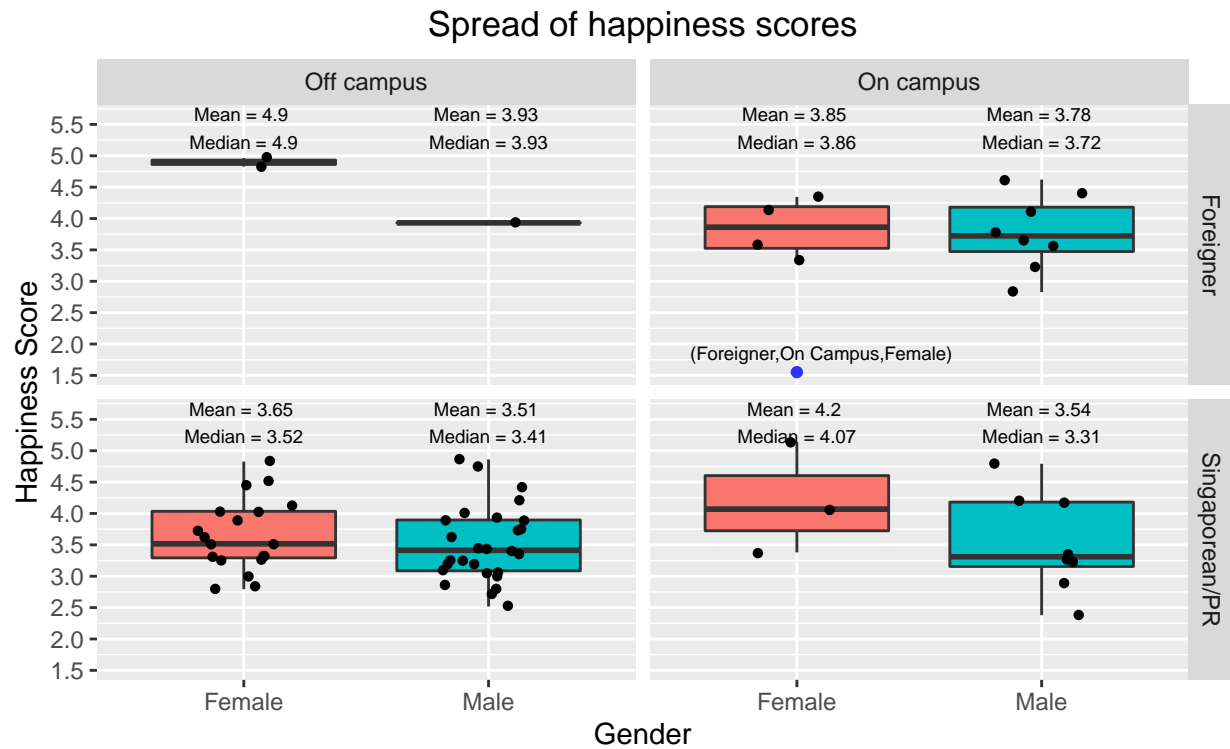
- International, off-campus males have the lowest happiness level
- Singaporean/PR, on-campus females have the highest happiness level
- Singaporean/PR students overall seem to be more happier than foreigners (maybe due to homesickness and more responsibilities for foreigners)
- Location seems to be a less affecting variable as it has varying results for each combination



Plot 2: Spread of happiness scores for every category with outlier

- Singaporean/PR have greater spread (variance)
- Off- campus foreigner students have the least spread (nearly none) but highest mean as compared to the rest

- Outlier for a foreigner female(ID No. 5) living on-campus with the lowest happiness level=1.551724



Plot 3: Visualising Correlations

- The smooth line shows the pattern between the score and other variables
- Females has greater confidence region so the regression region lies within it
- Males have smaller region of confidence



Plot 4: Visualising based on every variable

