adventr2

Nival Kolambage

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#This is the 'adventr' tutorial by Prof.Andy Field.

##Adventr_02

Names of the Band Members

```r
name <- c('Sudari', 'Nival', 'Nishali', 'Naveen')
name
```

```
## [1] "Sudari"  "Nival"   "Nishali" "Naveen"
```

Age of the members

```r
age <- c(27, 30, 19, 26)
```

Sex of members

```r
sex <- c(1, 0, 1, 0)
factor(sex, levels = 0:1, labels = c('Male', 'Female'))
```

```
## [1] Female Male   Female Male
## Levels: Male Female
```

```r
sex
```

```
## [1] 1 0 1 0
```

Alternative way to factorize sex: foracts pkg from tidyverse

```r
sex <- c("Female", "Male", "Female", "Male")
sex <- forcats::as_factor(sex)
sex
```

```
## [1] Female Male   Female Male
## Levels: Female Male
```

```r
sex <- forcats::fct_relevel(sex, "Male", "Female")
sex
```

```
## [1] Female Male    Female Male
## Levels: Male Female
```

Loading the data that Prof Pincus uses to help Zach explore what attributes women look for in men in Chapter 3 of the book

```
ha_tib <- readr::read_csv("../data/ais_ch03_ha.csv")
```

```
## Parsed with column specification:
## cols(
##   ID = col_double(),
##   ageYears = col_double(),
##   Sex = col_character(),
##   HighSalary = col_double(),
##   FinishedEducation = col_double(),
##   Kind = col_double(),
##   Humour = col_double(),
##   Ambitious = col_double(),
##   WantsChildren = col_double(),
##   Romantic = col_double(),
##   AttractiveAppearance = col_double(),
##   Creativity = col_double(),
##   Honest = col_double()
## )
```

```
ha_tib
```

```
## # A tibble: 20 x 13
##        ID ageYears Sex   HighSalary FinishedEducati~  Kind Humour Ambitious
##     <dbl>    <dbl> <chr>      <dbl>            <dbl> <dbl>  <dbl>     <dbl>
## 1  90308       16 Fema~          4                9    10      8         7
## 2  90220       15 Fema~          5                8    10     10         7
## 3  10723       16 Fema~          9                5     8      8         8
## 4  40502       16 Fema~          4                4     9      8         5
## 5  60622       17 Fema~          5                7    10     10         8
## 6  10625       16 Fema~          3                3    10      8         7
## 7  40716       18 Fema~         10               10    10     10        10
## 8  50433       15 Fema~         10                7     9      9         6
## 9  90505       15 Fema~          6                6     8      7         7
## 10 80416       15 Fema~          1                4     7      6         7
## 11 70218       14 Fema~          3                4     8      6         4
## 12 50421       15 Fema~          8                8     9      8         6
## 13 20607       14 Fema~          8                9     9      7         5
## 14 30208       15 Fema~          2                1    10      8         9
## 15 10811       16 Fema~          6                7     9      7         7
## 16 90420       15 Fema~          4                3     9      8         6
## 17 60111       16 Fema~          8                7     9      5         7
## 18 30618       16 Fema~          4                6    10      9         8
## 19 80117       15 Fema~          7               10    10     10         5
## 20 10505       16 Fema~          7                9    10      9         6
## # ... with 5 more variables: WantsChildren <dbl>, Romantic <dbl>,
## #   AttractiveAppearance <dbl>, Creativity <dbl>, Honest <dbl>
```

Accessing 'Ambitious' in ha_tib

```
ha_tib$Ambitious
```

```
## [1]  7  7  8  5  8  7 10  6  7  7  4  6  5  9  7  6  7  8  5  6
```

Squaring 'Humour'

```
library(dplyr)
```

```
##
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:stats':
##
##     filter, lag
```

```
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```
ha_tib <- ha_tib %>%
  dplyr::mutate(humour_sq = (Humour**2))
ha_tib
```

```
## # A tibble: 20 x 14
##       ID ageYears Sex   HighSalary FinishedEducati~  Kind Humour Ambitious
##    <dbl>    <dbl> <chr>      <dbl>            <dbl> <dbl>  <dbl>     <dbl>
##  1 90308       16 Fema~          4                9    10      8         7
##  2 90220       15 Fema~          5                8    10     10         7
##  3 10723       16 Fema~          9                5     8      8         8
##  4 40502       16 Fema~          4                4     9      8         5
##  5 60622       17 Fema~          5                7    10     10         8
##  6 10625       16 Fema~          3                3    10      8         7
##  7 40716       18 Fema~         10               10    10     10        10
##  8 50433       15 Fema~         10                7     9      9         6
##  9 90505       15 Fema~          6                6     8      7         7
## 10 80416       15 Fema~          1                4     7      6         7
## 11 70218       14 Fema~          3                4     8      6         4
## 12 50421       15 Fema~          8                8     9      8         6
## 13 20607       14 Fema~          8                9     9      7         5
## 14 30208       15 Fema~          2                1    10      8         9
## 15 10811       16 Fema~          6                7     9      7         7
## 16 90420       15 Fema~          4                3     9      8         6
## 17 60111       16 Fema~          8                7     9      5         7
## 18 30618       16 Fema~          4                6    10      9         8
## 19 80117       15 Fema~          7               10    10     10         5
## 20 10505       16 Fema~          7                9    10      9         6
## # ... with 6 more variables: WantsChildren <dbl>, Romantic <dbl>,
## #   AttractiveAppearance <dbl>, Creativity <dbl>, Honest <dbl>, humour_sq <dbl>
```

Filtering girls less than 16

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```
ha_tib_16 <- ha_tib %>%
  dplyr::filter (ageYears >= 16)
ha_tib_16
```

```
## # A tibble: 10 x 14
##        ID ageYears Sex   HighSalary FinishedEducati~  Kind Humour Ambitious
##     <dbl>    <dbl> <chr>      <dbl>            <dbl> <dbl>  <dbl>     <dbl>
## 1  90308       16 Fema~          4                9    10      8         7
## 2  10723       16 Fema~          9                5     8      8         8
## 3  40502       16 Fema~          4                4     9      8         5
## 4  60622       17 Fema~          5                7    10     10         8
## 5  10625       16 Fema~          3                3    10      8         7
## 6  40716       18 Fema~         10               10    10     10        10
## 7  10811       16 Fema~          6                7     9      7         7
## 8  60111       16 Fema~          8                7     9      5         7
## 9  30618       16 Fema~          4                6    10      9         8
## 10 10505       16 Fema~          7                9    10      9         6
## # ... with 6 more variables: WantsChildren <dbl>, Romantic <dbl>,
## #   AttractiveAppearance <dbl>, Creativity <dbl>, Honest <dbl>, humour_sq <dbl>
```

```
```