q8

Name:Fengyan Shen Nummer:12665659

2023-11-07

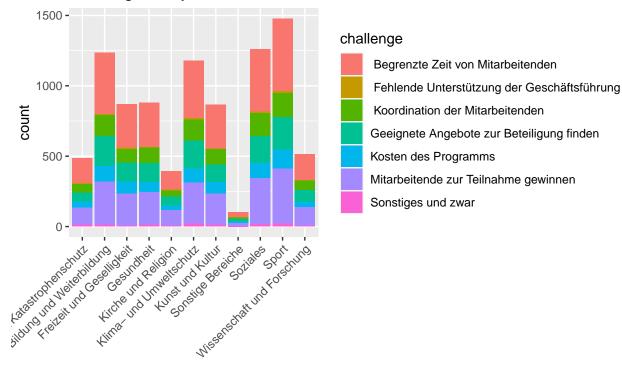
```
library(readxl)
library(dplyr)
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
library(ggplot2)
library(reshape2)
library(tidyr)
##
## Attaching package: 'tidyr'
## The following object is masked from 'package:reshape2':
##
##
       smiths
data<-read_excel("MUE.2022.for.LMU.xlsx")</pre>
df1 <- data %>% select(SERIAL,D001_01,D001_02,D001_03,D001_04,D001_05,D001_06,D001_07,D001_08,D001_09,D
df2 <-data %>% select(SERIAL, E004_01,E004_02,E004_03,E004_04,E004_05,E004_06,E004_07)
df_industry_long <- pivot_longer(df1,cols = -SERIAL,names_to = "industry", values_to = "element")</pre>
df_challenges_long <- pivot_longer(df2,cols = -SERIAL,names_to = "challenge", values_to = "element")
df_industry_long <- na.omit(df_industry_long)</pre>
df_challenges_long <- na.omit(df_challenges_long)</pre>
df_challenges_long
## # A tibble: 11,298 x 3
##
      SERIAL challenge element
##
      <chr> <chr>
                       <lgl>
## 1 LEUPX E004_01
                       FALSE
```

2 LEUPX E004_02

FALSE

```
3 LEUPX E004_03
##
                       FALSE
##
   4 LEUPX E004 04
                       FALSE
   5 LEUPX E004 05
                       FALSE
   6 LEUPX E004_06
                      FALSE
##
##
   7 LEUPX E004 07
                       TRUE
   8 PTMYN E004 01
                       FALSE
##
            E004 02
                       TRUE
## 10 PTMYN E004 03
                       FALSE
## # i 11,288 more rows
```

challenges vary across industries



industry

R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

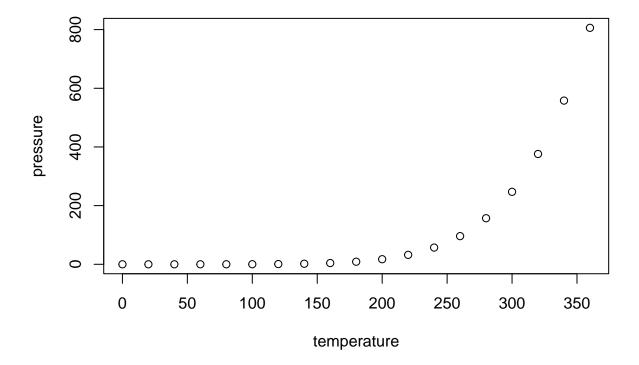
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

summary(cars)

```
##
        speed
                          dist
##
            : 4.0
                               2.00
    Min.
                    Min.
                            :
                    1st Qu.: 26.00
    1st Qu.:12.0
##
    Median:15.0
                    Median : 36.00
##
                            : 42.98
##
    Mean
            :15.4
                    Mean
##
    3rd Qu.:19.0
                    3rd Qu.: 56.00
##
    Max.
            :25.0
                    Max.
                            :120.00
```

Including Plots

You can also embed plots, for example:



Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.