WorkingWithDataAssignment

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##install.packages('tinytex') ##library(tinytex) ## a few hours of trial and errors can save you a few minutes of reading the proper documentation :) ## https://quarto.org/docs/output-formats/pdf-basics.html ## go to terminal tab down there and type quarto install tool tinytex

NOTE TO SELF!!!! using quarto is the same as playing restart Rstudio simulator 2022 because nothing ## is properly recached and they have a worse garbage collecter than assembly so if you still get the

same error after changing the just restart rstudio and remember to never ever ever change the

initial format or add anything close to it because it will break the pdf and start generating html

also please be smart and read https://quarto.org/docs/reference/formats/pdf.html for the formating

```
library(haven)
library(tidyverse)
```

```
-- Attaching packages --------------------------------------- tidyverse 1.3.2 --
v ggplot2 3.3.6      v purrr   0.3.4
v tibble  3.1.8      v dplyr   1.0.10
v tidyr   1.2.1      v stringr 1.4.1
v readr   2.1.3      v forcats 0.5.2
-- Conflicts ------------------------------------------ tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()    masks stats::lag()
```

```r
library(dplyr)
```

```r
## Very important documentation for the 2018 data set //it is a surprise toll that will he
technicalAnnex2018 = 'https://doc.ukdataservice.ac.uk/doc/8406/mrdoc/pdf/8406_cyber_securi

## this is the loading the first year of this level of survey data set
dataCyberSecuritySurvey2018 = read_spss('C:/AppliedDataScienceAndStatistics/Applied-Data-S

## adding the variable year because none of the data sets have any proper way to distingui
dataCyberSecuritySurvey2018$year = '2018'
```

Now we do the same for the other years before we merge them

```r
## loading the second year of this level of survey data set
dataCyberSecuritySurvey2019 = read_spss('C:/AppliedDataScienceAndStatistics/Applied-Data-S

## adding the variable year because none of the data sets have any proper way to distingui
dataCyberSecuritySurvey2019$year = '2019'
```

```r
## loading the third year of this level of survey data set
dataCyberSecuritySurvey2020 = read_spss('C:/AppliedDataScienceAndStatistics/Applied-Data-S

## adding the variable year because none of the data sets have any proper way to distingui
dataCyberSecuritySurvey2020$year = '2020'
```

```r
## loading the forth year of this level of survey data set
dataCyberSecuritySurvey2021 = read_spss('C:/AppliedDataScienceAndStatistics/Applied-Data-S

## adding the variable year because none of the data sets have any proper way to distingui
dataCyberSecuritySurvey2021$year = '2021'
```

```r
## loading the fifth and final year of this level of survey data set
dataCyberSecuritySurvey2022 = read_spss('C:/AppliedDataScienceAndStatistics/Applied-Data-S

## adding the variable year because none of the data sets have any proper way to distingui
dataCyberSecuritySurvey2022$year = '2022'
```

```
## Now that we have all data loaded lets start by tidying up data set by data set start fr


## for some sweet sweet documentation about the questions starting from page 26
browseURL(technicalAnnex2018)
```

```
##renaming all the bloody variables to a more java like name

dataCyberSecuritySurvey2018TidyName <- rename(dataCyberSecuritySurvey2018,isBusiness= 'sam

## if isBusiness is 1 it is a business if it is 2 it is a charity
## will change it the 2 to 0 because what is the point of a boolean without boolean values

##dataCyberSecuritySurvey2018TidyName
## never forget if R can't show all displayed text from a computation it breaks both the r
## future edit anything and everything breaks for no reason at all, just kill it and reope
## refer to the first NOTE TO SELF for more information

## typex is 1-2 for businesses and 3 for charities so redundant and can be removed
```

Quarto

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see https://quarto.org.

Running Code

When you click the **Render** button a document will be generated that includes both content and the output of embedded code. You can embed code like this:

```
1 + 1
```

```
[1] 2
```

You can add options to executable code like this

```
[1] 4
```

The `echo: false` option disables the printing of code (only output is displayed).