

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 document
## https://quarto.org/docs/output-formats/pdf-basics.html
## go to terminal tab down there and type quarto install tool tinytex
```

```
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()
```

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

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

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

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

```
## 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 distinguish
dataCyberSecuritySurvey2019$year = '2019'

## 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 distinguish
dataCyberSecuritySurvey2020$year = '2020'

## 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 distinguish
dataCyberSecuritySurvey2021$year = '2021'

##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

##dataCyberSecuritySurvey2018TidyName
## never forget if R can't show all displayed text from a computation it breaks both the r

##browseURL(technicalAnnex2018)
```

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).