Notebook 04: Visualise SF-12 relationships

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## 1 Introduction

This notebook will be used to explore SF12 relationships, such as with age.

## 2 Packages and file locations

What to extract (and in which format)

## 3 Data extraction

[1] "extracting file: /Users/JonMinton/repos/economic\_inactivity/big\_data/UKDA-6614-stata/stata/stata13\_se/ukhls/a\_indresp.dta"  
[1] "Attempting to find 17 variables"  
[1] "WARNING! Only 11 of the 17 requested have been found"  
[1] "read file in 0.317138195037842 seconds"  
[1] "slimming file..."  
[1] "extracted 11 variables in 0.410153865814209 seconds"  
[1] "extracting file: /Users/JonMinton/repos/economic\_inactivity/big\_data/UKDA-6614-stata/stata/stata13\_se/ukhls/b\_indresp.dta"  
[1] "Attempting to find 17 variables"  
[1] "All variables requested found"  
[1] "read file in 0.428359031677246 seconds"  
[1] "slimming file..."  
[1] "extracted 17 variables in 0.736963033676147 seconds"  
[1] "extracting file: /Users/JonMinton/repos/economic\_inactivity/big\_data/UKDA-6614-stata/stata/stata13\_se/ukhls/c\_indresp.dta"  
[1] "Attempting to find 17 variables"  
[1] "WARNING! Only 11 of the 17 requested have been found"  
[1] "read file in 0.637682199478149 seconds"  
[1] "slimming file..."  
[1] "extracted 11 variables in 0.369390964508057 seconds"  
[1] "extracting file: /Users/JonMinton/repos/economic\_inactivity/big\_data/UKDA-6614-stata/stata/stata13\_se/ukhls/d\_indresp.dta"  
[1] "Attempting to find 17 variables"  
[1] "All variables requested found"  
[1] "read file in 0.463130950927734 seconds"  
[1] "slimming file..."  
[1] "extracted 17 variables in 0.619863033294678 seconds"  
[1] "extracting file: /Users/JonMinton/repos/economic\_inactivity/big\_data/UKDA-6614-stata/stata/stata13\_se/ukhls/e\_indresp.dta"  
[1] "Attempting to find 17 variables"  
[1] "WARNING! Only 11 of the 17 requested have been found"  
[1] "read file in 0.534901857376099 seconds"  
[1] "slimming file..."  
[1] "extracted 11 variables in 0.331315994262695 seconds"  
[1] "extracting file: /Users/JonMinton/repos/economic\_inactivity/big\_data/UKDA-6614-stata/stata/stata13\_se/ukhls/f\_indresp.dta"  
[1] "Attempting to find 17 variables"  
[1] "All variables requested found"  
[1] "read file in 0.496875047683716 seconds"  
[1] "slimming file..."  
[1] "extracted 17 variables in 0.529961824417114 seconds"  
[1] "extracting file: /Users/JonMinton/repos/economic\_inactivity/big\_data/UKDA-6614-stata/stata/stata13\_se/ukhls/g\_indresp.dta"  
[1] "Attempting to find 17 variables"  
[1] "WARNING! Only 11 of the 17 requested have been found"  
[1] "read file in 0.484377861022949 seconds"  
[1] "slimming file..."  
[1] "extracted 11 variables in 0.385270118713379 seconds"  
[1] "extracting file: /Users/JonMinton/repos/economic\_inactivity/big\_data/UKDA-6614-stata/stata/stata13\_se/ukhls/h\_indresp.dta"  
[1] "Attempting to find 17 variables"  
[1] "All variables requested found"  
[1] "read file in 0.411600112915039 seconds"  
[1] "slimming file..."  
[1] "extracted 17 variables in 0.489328145980835 seconds"  
[1] "extracting file: /Users/JonMinton/repos/economic\_inactivity/big\_data/UKDA-6614-stata/stata/stata13\_se/ukhls/i\_indresp.dta"  
[1] "Attempting to find 17 variables"  
[1] "WARNING! Only 11 of the 17 requested have been found"  
[1] "read file in 0.537520885467529 seconds"  
[1] "slimming file..."  
[1] "extracted 11 variables in 0.273510932922363 seconds"  
[1] "extracting file: /Users/JonMinton/repos/economic\_inactivity/big\_data/UKDA-6614-stata/stata/stata13\_se/ukhls/j\_indresp.dta"  
[1] "Attempting to find 17 variables"  
[1] "All variables requested found"  
[1] "read file in 0.383781909942627 seconds"  
[1] "slimming file..."  
[1] "extracted 17 variables in 0.431400060653687 seconds"  
[1] "extracting file: /Users/JonMinton/repos/economic\_inactivity/big\_data/UKDA-6614-stata/stata/stata13\_se/ukhls/k\_indresp.dta"  
[1] "Attempting to find 17 variables"  
[1] "WARNING! Only 11 of the 17 requested have been found"  
[1] "read file in 0.434370994567871 seconds"  
[1] "slimming file..."  
[1] "extracted 11 variables in 0.323473215103149 seconds"  
[1] "extracting file: /Users/JonMinton/repos/economic\_inactivity/big\_data/UKDA-6614-stata/stata/stata13\_se/ukhls/l\_indresp.dta"  
[1] "Attempting to find 17 variables"  
[1] "All variables requested found"  
[1] "read file in 0.354924917221069 seconds"  
[1] "slimming file..."  
[1] "extracted 17 variables in 0.375171899795532 seconds"

[1] "Overall process took 0.186087747414907 minutes"

# A tibble: 7,058,281 × 4  
 pidp wave variable value   
 <dbl> <chr> <chr> <chr>   
 1 68001367 a sex male   
 2 68004087 a sex male   
 3 68006127 a sex female  
 4 68006135 a sex female  
 5 68006807 a sex female  
 6 68007487 a sex female  
 7 68007491 a sex male   
 8 68007495 a sex male   
 9 68007499 a sex male   
10 68008167 a sex female  
# ℹ 7,058,271 more rows

Recode highest qualification and economic activity status

# A tibble: 7,058,281 × 4  
 pidp wave variable value   
 <dbl> <chr> <chr> <chr>   
 1 68001367 a sex male   
 2 68004087 a sex male   
 3 68006127 a sex female  
 4 68006135 a sex female  
 5 68006807 a sex female  
 6 68007487 a sex female  
 7 68007491 a sex male   
 8 68007495 a sex male   
 9 68007499 a sex male   
10 68008167 a sex female  
# ℹ 7,058,271 more rows

## 4 Visualise

[Figure 1](#fig-sf-mean-scores-by-age) shows something…

|  |
| --- |
| Figure 1: Mean SF-12 scores by age in wave A, by age, sex and economic activity status |

And save…