# Working\_with\_Data

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### 0.1 Packages & library

```
library(tidyverse)
-- Attaching core tidyverse packages ------ tidyverse 2.0.0 --
v dplyr 1.1.4 v readr 2.1.5
v forcats 1.0.0
                   v stringr
                              1.5.1
v ggplot2 3.5.1 v tibble 3.2.1
v lubridate 1.9.4
                  v tidyr 1.3.1
v purrr
-- Conflicts ----- tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag() masks stats::lag()
i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become errors
library(descr)
library(knitr)
library(dplyr)
library(Hmisc)
Attaching package: 'Hmisc'
The following objects are masked from 'package:dplyr':
    src, summarize
The following objects are masked from 'package:base':
   format.pval, units
library(readr)
```

## 0.2 Load

library(readxl)

```
Project_Data = read.csv("/cloud/project/Data/Connection_to_Nature_Data.csv",
header = TRUE)
```

# 0.3 Variables

#### as.ordered(Project\_Data\$Age\_Group)

	Frequency	Percent	Valid	Percent	Cum	Percent
18-25	43	8.350		8.448		8.448
26-40	85	16.505		16.699		25.147
40-65	301	58.447		59.136		84.283
65+	80	15.534		15.717		100.000
NA's	6	1.165				
Total	515	100.000		100.000		

I choose this variable (age) because I think it would be important to look at in reference to how loneliness and time spent in nature varies among age groups. Perhaps depending on the age group, there will be more positive benefits to those exposed to nature in relation to loneliness.

# as.ordered(Project\_Data\$Nature\_Hours\_Group)

```
| Frequency Percent Cum Percent Low (0-5) | 137 | 26.602 | 26.60 | Moderate (6-15) | 230 | 44.660 | 71.26 | High (16-30) | 118 | 22.913 | 94.17 | Very High (30+) | 30 | 5.825 | 100.00 | Total | 515 | 100.000 |
```

This is very important. This variable (hours spent in nature) is important because when I did the literature review assignment, depending on the time spent in nature, actually lowered both social loneliness and emotional loneliness, but it depends how much time was spent in nature.

#### freq(as.ordered(Project\_Data\$Lon\_1), plot = FALSE)

515 100.000

#### as.ordered(Project\_Data\$Lon\_1) Frequency Percent Valid Percent Cum Percent 49 9.515 9.646 9.646 yes more or less 76 14.757 14.961 24.606 75.394 383 74.369 100.000 no 7 1.359 NA's

100.000

I choose this variable (people's sense of emptiness) because this can be a reason for social/emotional loneliness. If time spent nature is associated with lower loneliness on these two paths, we might also see a decrease in emptiness to those who spend more time in nature.

#### as.ordered(Project\_Data\$Lon\_4)

Total

	Frequency	Percent	Valid Percent	Cum Percent
yes	119	23.107	23.47	23.47
more or less	153	29.709	30.18	53.65
no	235	45.631	46.35	100.00
NA's	8	1.553		
Total	515	100.000	100.00	

This variable (missing social interaction) could be important because social loneliness is being examined here. Comparing this to time spent in nature can help show whether nature can also regulate/help social loneliness as well.

#### as.ordered(Project\_Data\$SE\_1)

```
Frequency Percent Cum Percent
not very true of me
                          35 6.796
                                           6.796
2
                          69 13.398
                                          20.194
3
                         146 28.350
                                          48.544
                         193
                              37.476
                                          86.019
                                         100.000
very true of me
                          72 13.981
                         515 100.000
Total
```

Lastly, I also choose this variable (people's self-esteem) because those who experience loneliness and spend little time in nature differ from those who don't feel loneliness and do spend time in nature. Perhaps those who do spend more time have higher level's of agreement to self-esteem compared to those who do not.