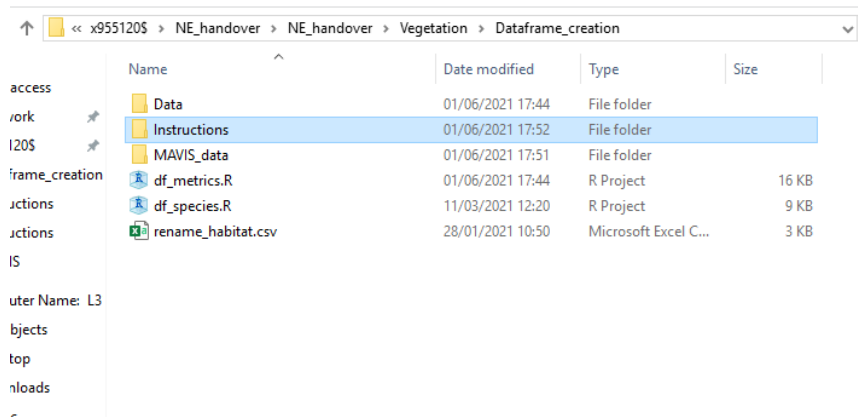
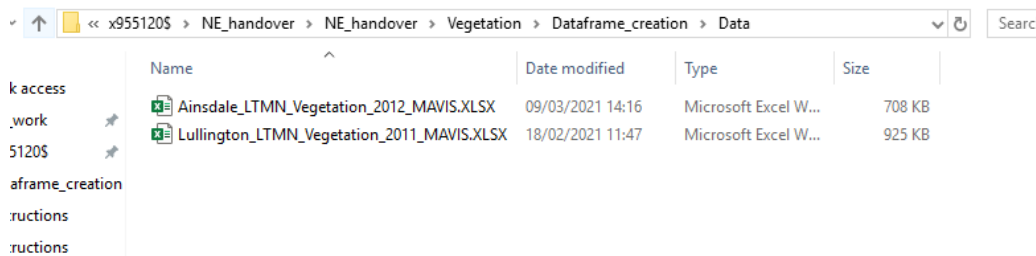


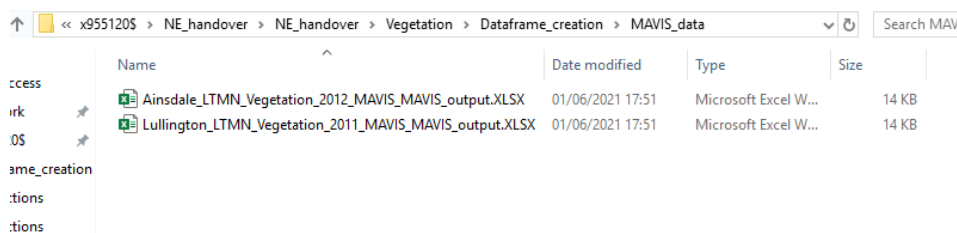
1. Your folder should look like this. Rename_habitat.csv has the manual habitat name changes and a list of the accepted names for habitats.



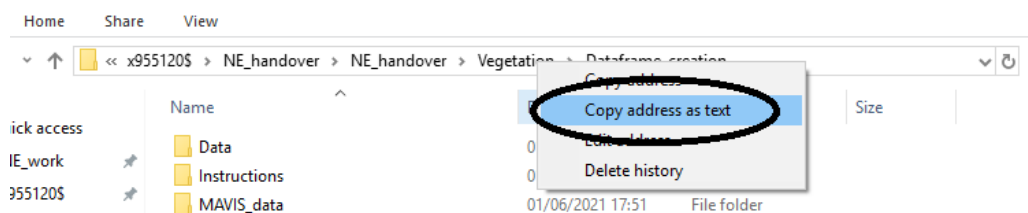
2. Put all the survey files in the Data folder. Here I have used just two (one each from two sites) so it will make a dataframe with all the plots in only these two surveys. This might be useful if you wanted to compare two surveys but would not be suitable to make a 'report' using the report code. Add all the surveys in on the sites you want to investigate.



3. Put all the outputs of the 'MAVIS_out2.R' code in the MAVIS_data folder. There should be one for each of the surveys you put in the Data folder.



4. Go to the main folder with the code in it and right click on the address bar and click 'Copy address as text'.



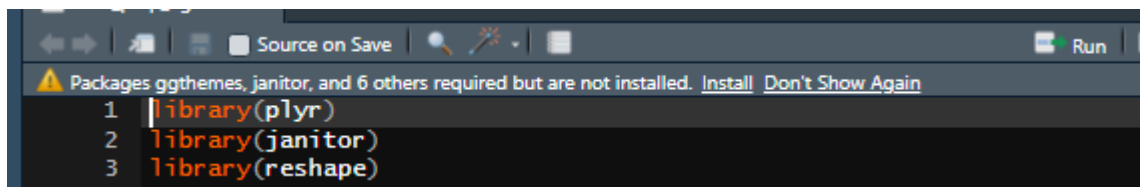
- Double click on 'df_metrics.R' to open it in Rstudio. Replace the text in the setwd("") function with the text you have copied. Replace all the backslashes \ with forward slashes /. The address you copy in will be unique to your computer and where you put the code.

```

5 library(diverse)
6 library(openxlsx)
7
8 # change this to your working direstory (the directory with the code in)
9 setwd('//CAM381FS/x955120$/NE_handover/NE_handover/Vegetation/Dataframe_creation')
10
11 #####
12 # Reading in information from disk
13 #####
14
15 # Put the survey files in here

```

- At the top of the code there may be a message like this. Click on install. Don't worry if the names of the packages are different or if there isn't a message.



1 library(plyr)
2 library(janitor)
3 library(reshape)

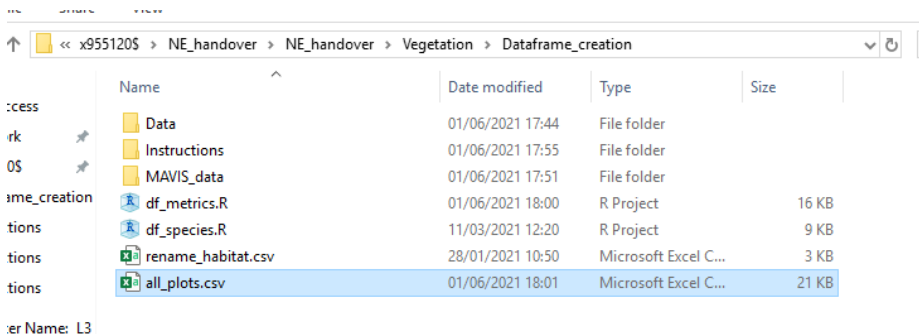
- Highlight all of the code, all the way down to the bottom and click on 'run' to the top right of the code.

```

384
385
386 colnames(survey_total) <- c('Plot_ID', 'Species_richness', 'Species_diversity',
387 'Sitecode', 'Year', 'Eastings', 'Northings', 'Data',
388 'BAP_broad', 'BAP_priority', 'NVC1', 'Light',
389 'Wetness', 'pH', 'Fertility', 'Competition', 'Stress',
390 'Ruderals', 'NVC_subgroup', 'NVC_group', 'NVC_habitat',
391 'Vegetation_height', 'STD_HEIGHT', 'Litter',
392 'Bare_ground')
393
394 # Choose how you want to write the final dataframe
395 write.csv(survey_total, 'all_plots.csv', row.names = FALSE)
396
397 # Use this instead of the write.csv to make it into an excel file
398 # wb <- createWorkbook()
399 # survey_sheet <- addWorksheet(wb, 'presentation_plots')
400 # writeData(wb, survey_sheet, survey_total)
401 # saveWorkbook(wb, 'presentation_surveys.xlsx')
402
403

```

- There should now be a csv file with all the information created in this code in the main folder. It will be called the same as you have named it in the code. 'all_plots.csv' here. Now Double click on 'df_species.R'.



Name	Date modified	Type	Size
Data	01/06/2021 17:44	File folder	
Instructions	01/06/2021 17:55	File folder	
MAVIS_data	01/06/2021 17:51	File folder	
df_metrics.R	01/06/2021 18:00	R Project	16 KB
df_species.R	11/03/2021 12:20	R Project	9 KB
rename_habitat.csv	28/01/2021 10:50	Microsoft Excel C...	3 KB
all_plots.csv	01/06/2021 18:01	Microsoft Excel C...	21 KB

9. Repeat step 4-5 in this new code to replace the address in the `setwd()` function again.

```
df_metrics.R* df_species.R*
Source on Save Run Source
5 library(diversity)
6 library(openxlsx)
7
8 # change this to your working directory (the directory with the code in)
9 setwd('//CAM381FS/x955120$/NE_handover/NE_handover/Vegetation/Dataframe_creation')
10
11 #####
12 # Reading in information from disk
13 #####
14
15 data <- '../Data/'
16 list_of_files <- list.files(data)
17 N_files <- length(list_of_files)
18 print(list_of_files)
19
```

10. Now highlight all the code down to the bottom and click 'run'. The names of the file outputs are at the bottom and are currently set to 'species_f.csv' and 'species_pc.csv'

```
df_species.R
Source on Save Run Source
215 # Changing the names of the first set of columns
216 colnames(survey_total_pc)[1:length(wpd_data_cols)] <- new_name_cols
217 colnames(survey_total_f)[1:length(wpd_data_cols)] <- new_name_cols
218
219 # This writing both the percentage cover and frequency dataframes to separate
220 # csv files
221 write.csv(survey_total_pc, 'species_pc.csv', row.names = FALSE)
222 write.csv(survey_total_f, 'species_f.csv', row.names = FALSE)
223
224 # For writing the data to an excel sheet
225 # wb <- createWorkbook()
226 # survey_sheet <- addWorksheet(wb, 'presentation_plots')
227 # writeData(wb, survey_sheet, survey_total)
228 # saveWorkbook(wb, 'presentation_surveys.xlsx')
229
230
```

11. The final folder should look like this.

x955120\$ > NE_handover > NE_handover > Vegetation > Dataframe_creation				
	Name	Date modified	Type	Size
cess	Data	01/06/2021 17:44	File folder	
k	Instructions	01/06/2021 17:55	File folder	
\$	MAVIS_data	01/06/2021 17:51	File folder	
me_creation	df_metrics.R	01/06/2021 18:00	R Project	16 KB
ions	df_species.R	11/03/2021 12:20	R Project	9 KB
ions	rename_habitat.csv	28/01/2021 10:50	Microsoft Excel C...	3 KB
ions	all_plots.csv	01/06/2021 18:01	Microsoft Excel C...	21 KB
er Name: L3	species_pc.csv	01/06/2021 18:10	Microsoft Excel C...	66 KB
icts	species_f.csv	01/06/2021 18:10	Microsoft Excel C...	66 KB
ads				