Ching's Week-12 diary on Webpage

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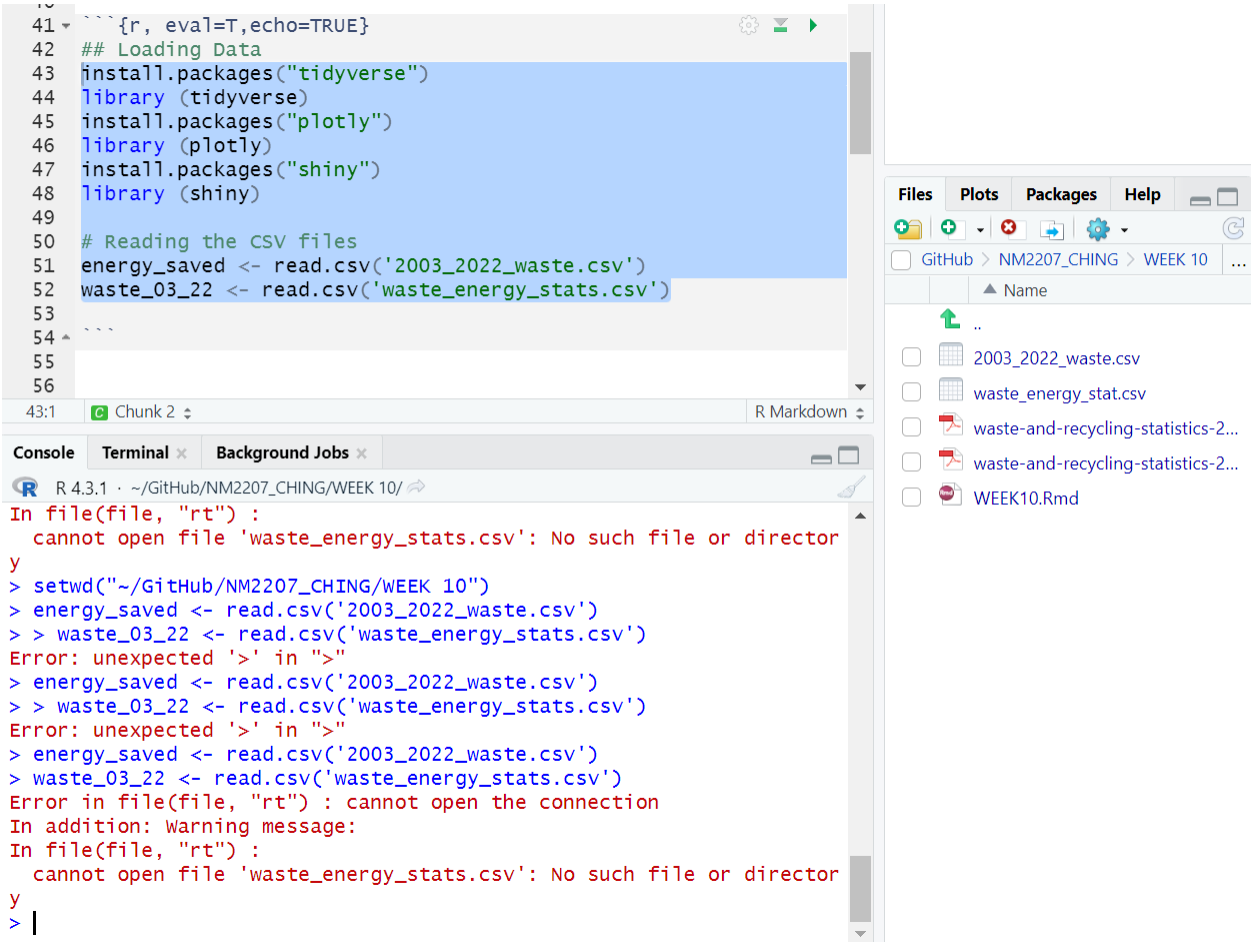
Here are some issues when I encounter when cleaning the data #Problem Encounter 1

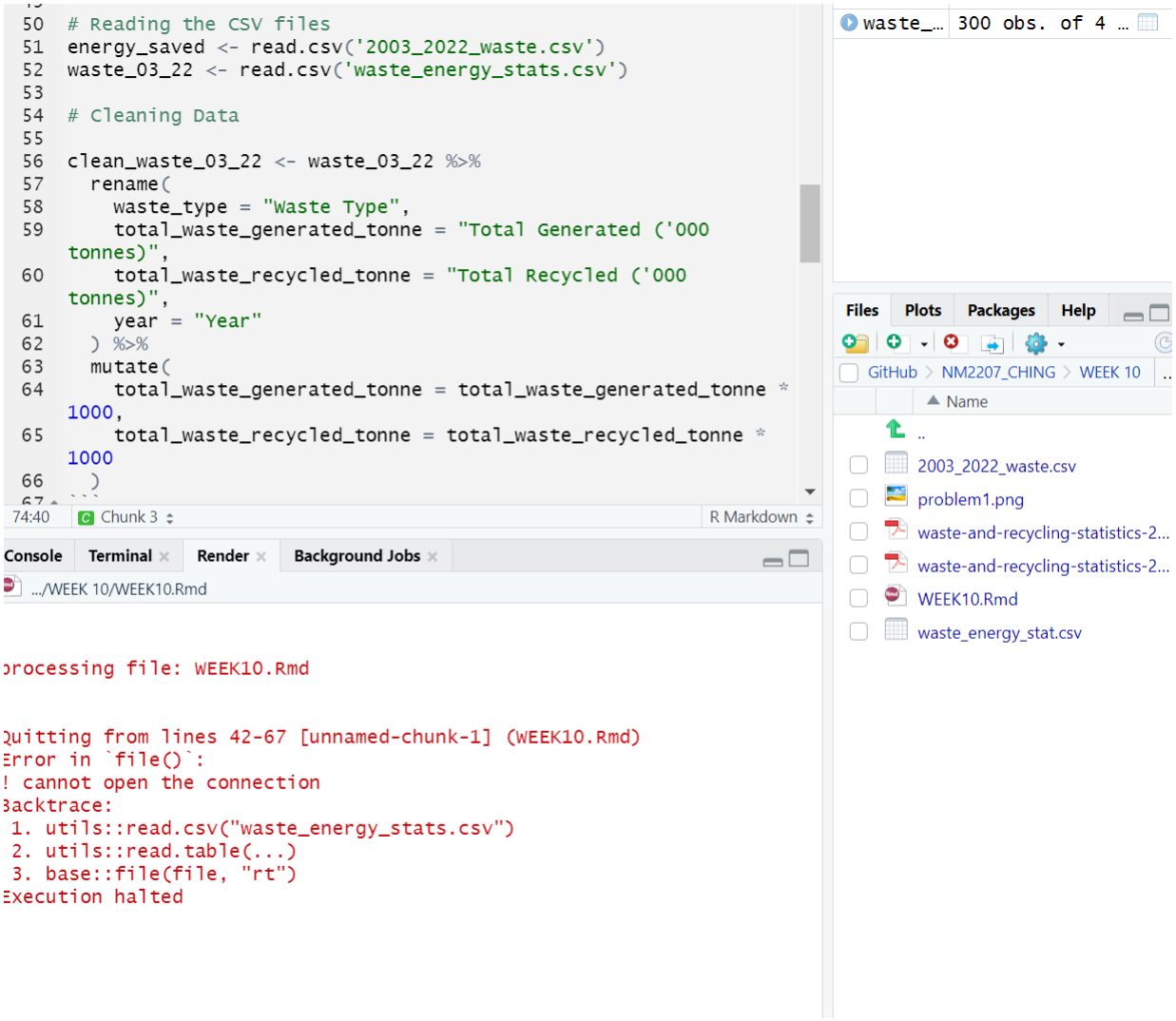
```
knitr::include_graphics("problem1.png")
```



Overcome: by typing separate lines instead of just throwing both at the same time.

#Problem Encounter 2

```
knitr::include_graphics("problem2.png")
```



Overcome: by typing “waste_energy_stat.csv” instead of “waste_energy_stat(s).csv” –> careless typing

#Problem Encounter 3

```
knitr::include_graphics("problem3.png")
```

```r
# Reading the CSV files
energy_saved <- read.csv('2003_2022_waste.csv')

waste_03_22 <- read.csv('waste_energy_stat.csv')

# Cleaning Data

clean_waste_03_22 <- waste_03_22 %>%
  rename(
    waste_type = "Waste Type",
    total_waste_generated_tonne = "Total Generated ('000 tonnes)",
    total_waste_recycled_tonne = "Total Recycled ('000 tonnes)",
    year = "Year"
  ) %>%
  mutate(
    total_waste_generated_tonne = total_waste_generated_tonne * 1000,
    total_waste_recycled_tonne = total_waste_recycled_tonne * 1000
```

53:39 Chunk 2 R Markdown

waste_... 300 obs. of 4 ...

Files Plots Packages Help

GitHub > NM2207_CHING > WEEK 10

Name

..
2003_2022_waste.csv
problem1.png
waste-and-recycling-statistics-2...
waste-and-recycling-statistics-2...
WEEK10.Rmd
waste_energy_stat.csv
problem2.png

Console Terminal Render Background Jobs

.../WEEK 10/WEEK10.Rmd

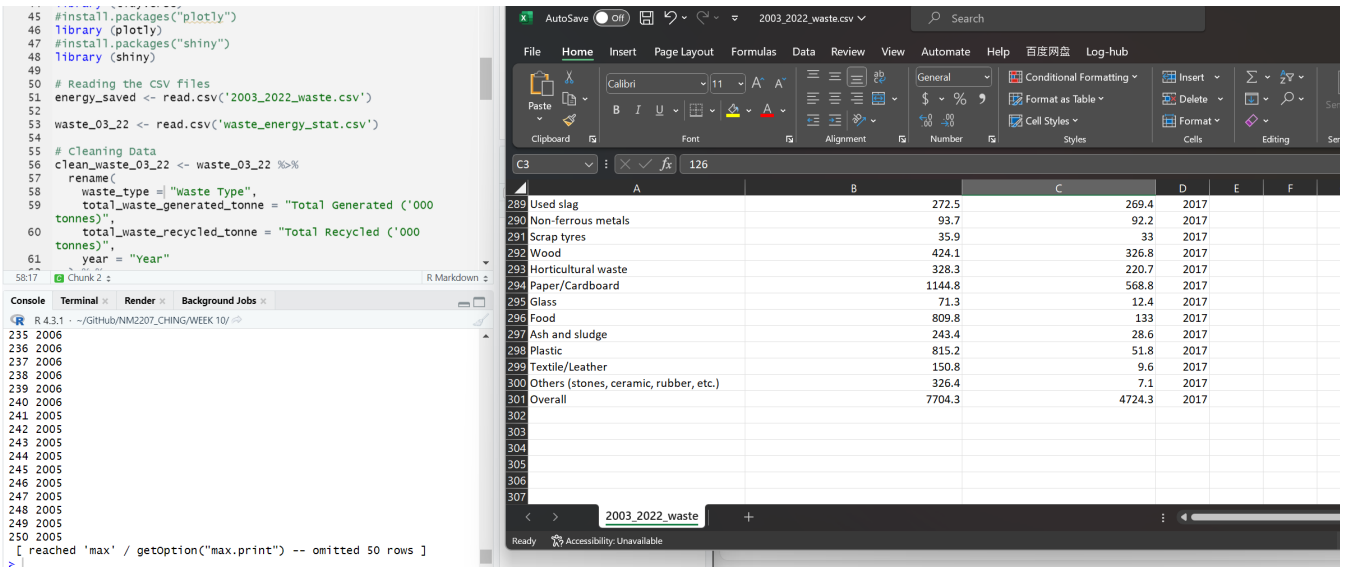
```
processing file: WEEK10.Rmd
  |.............................                        |  57% [unnamed
-chunk-1]
Quitting from lines 42-68 [unnamed-chunk-1] (WEEK10.Rmd)
Error in `rename()`:
! Can't rename columns that don't exist.
✖ Column `Waste Type` doesn't exist.
Backtrace:
 1. ... %>% ...
 4. dplyr:::rename.data.frame(...)

Execution halted
```

Overcome: Confirm column names mentioned in the ‘rename’ and ‘mutate’ function exist in the CSV. They are also case-sensitive, so make sure there are no typos.

#Problem Encounter 4

```r
knitr::include_graphics("problem4.png")
```



Overcome: Rearrange the data

#Problem Encounter 5

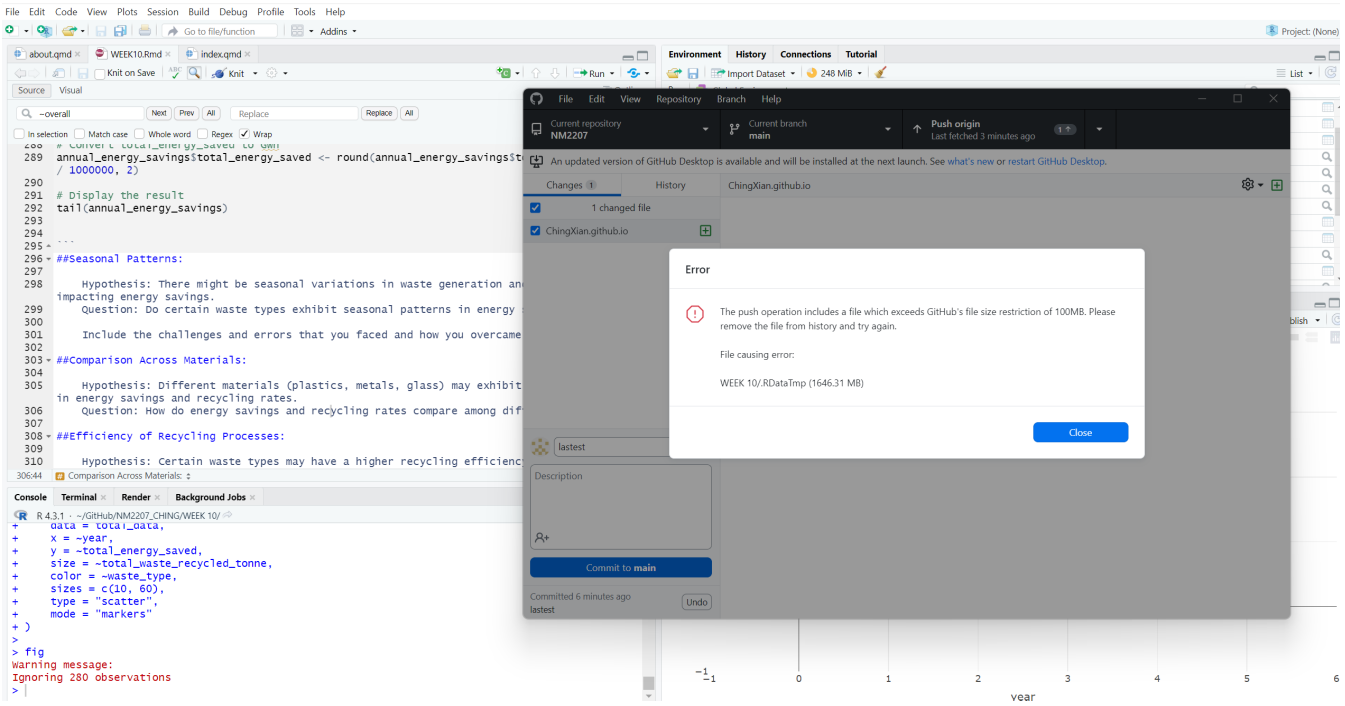
```
knitr::include_graphics("problem5.png")
```

```
> wastestates <- waste_03_22 %>%filter(year %in% c(2003:2022) & waste
_type %in% c("Plastics", "Ferrous metals", "Non-ferrous metal", "Glas
s", "Food"))
Error in `filter()`:
i In argument: `&...`.
Caused by error in `match()`:
! 'match' requires vector arguments
Run `rlang::last_trace()` to see where the error occurred.
>
```

Overcome: Check the data and rearrange the data

#Problem Encounter 6

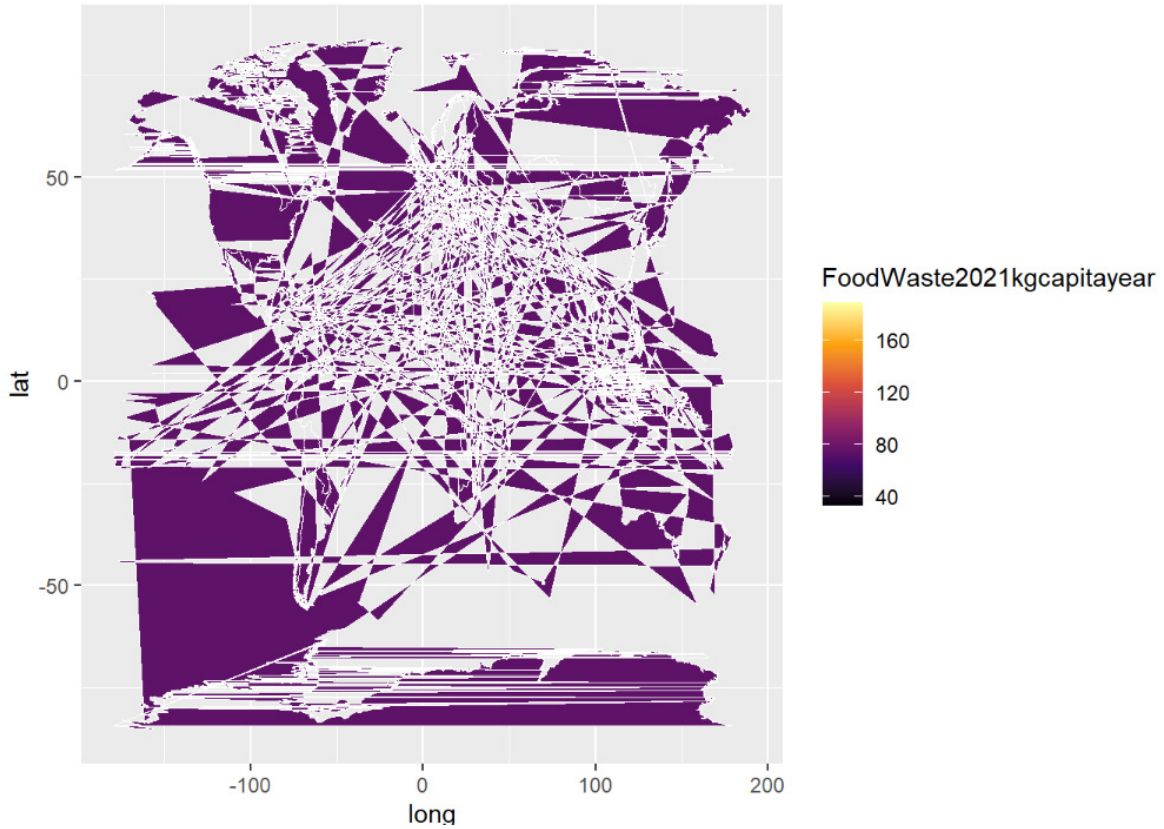
```
knitr::include_graphics("problem10-problem pushign to ghithub.png")
```



Overcome: Reclone repository and redo the whole repository

#Problem Encounter 7

```
knitr::include_graphics("problem11.jpg")
```



Overcome: Research more and edit code.

Sometimes, if the code has problem and due to limited time, I would manually edit the csv.

Challenges on making the webpages better:

There are many more, however, due to limietd time, I didn't document everything

But here are some of the error messages i get:

1. Error in `compute_layer()` : ! `stat_sf()` requires the following missing aesthetics: geometry Backtrace:

1. plotly::ggplotly(map, tooltip = c("region", "Food_emissions_by_country"))
2. plotly:::ggplotly.ggplot(map, tooltip = c("region", "Food_emissions_by_country"))
3. plotly::gg2list(…)
4. plotly (local) ggplotly_build(p)
5. plotly (local) by_layer(function(l, d) l$compute_statistic(d, layout)) …
6. ggplot2 (local) compute_statistic(…, self = self)
7. self$stat$compute_layer(data, self$computed_stat_params, layout)
8. ggplot2 (local) compute_layer(…, self = self)
9. ggproto_parent(Stat, self)$compute_layer(data, params, layout)
10. ggplot2 (local) compute_layer(…, self = self)

Execution halted

Solution: I tried using the ggplot2 library, however, i get a followed up issue on [Error in `geom_polygon_interactive()` :! could not find function "geom_polygon_interactive"]. Tried "geom_polygon" line in the ggplot code with "geom_sf". However, I realised the geom_polygon_interactive function is not part of the standard ggplot2 package.

[Error:! `dsn` must point to a source, not an empty string. Backtrace: 1. sf::st_read(system.file("shape/world", package = "maps"), quiet = TRUE) 2. sf:::st_read.character(…)]

Then there seems there was an issue with attempting to read the shapefile from the maps package. Used the “rnaturalearth” package to obtain a simplified world map. Additionally, use the sf package to handle spatial data. It rendered, but no map is showing.

Then I tried plotly, but when I render, the render took 3 mins and still nothing appear, I concluded it hanged too cause i could not close the Rstudio.

In the end, I didn’t managed to resolve this, as such my second world map does not have interactive elements.

2. Some of my graph and images are not 100% and centralised.

Solution: At first, i used theme() function and set the plot.margin parameter, however the graph did not change. I used {r, out.width=‘100%’} in the end to make it look better.

3. Sometimes I render, it works but most of the times, i render, this error message appear. [Error in `add_html_caption()` : ! unused argument (xfun::grep_sub(“[1]*<[^>]+aria-labelledby[ ]=[ ]"([^\"]+)".*$”, “\1”, x)) Backtrace:

1. global .main()
2. execute(…)
3. rmarkdown::render(…)
4. knitr::knit(knit_input, knit_output, envir = envir, quiet = quiet)
5. knitr:::process_file(text, output) …
6. sew(res, options)
7. knitr:::sew.list(x, options, …)
8. base::lapply(x, sew, options, …)
9. FUN(X[[i]], …)
10. knitr:::sew.knit_asis(x, options, …)]

Solution: Apparently thorugh lots of googling and online conversations, I realised it was due to the unupdated “Quarto” package.

4. Some of mmy shiny app also ran into error when publishing onto the wenpage. [Error in `checkAppLayout()` : ! Project must not contain both ‘app.R’ and a single-file Shiny app. Backtrace: ■

1. └─rsconnect::deployApp(…)
2. └─rsconnect:::appMetadata(…)
3. `└─rsconnect:::checkAppLayout(appDir, appPrimaryDoc)`
4. `└─cli::cli_abort("Project must not contain both {.file app.R} and a single-file Shiny app.")`
5. `└─rlang::abort(...)`

   Execution halted]

Solution: Create a separate file and name of the second shiny document.

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1. ^<↩