Week 4 Pre-Lecture Instructions

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Preparing for Week 4

Before we start working with the Week 4 materials, make sure your folder and project are correctly set up. This ensures that all file paths work with the here() package and that your code runs smoothly when knitted.

1. Create a Week 4 Folder

Inside your main project directory - R-ecology-workshop - create a new folder called Week	4
Your directory should now look like this:	
R-ecology-workshop/	
Week 1/	
Week 2/	
Week 3/	
 Week 4/ <- move downloaded files into here	
Important: Move your downloaded files directly into this Week 4 folder -	

2. Download the Week 4 Materials

All Week 4 files are available in the shared *Google Drive Week 4 folder*.

do **not** leave them inside a nested "Downloads" or "Week 4" subfolder.

Download and save the following five files into your new R-ecology-workshop/Week 4/ folder:

- climate.csv
- forest_area.csv
- country_area.csv
- countries_continents.csv
- Week 4 Joining and Reshaping BLANK.Rmd (blank file to get you started)

3. Open Your Project and File

- 1. In RStudio, open your main project: R-ecology-workshop.Rproj
- 2. In the Files pane, navigate to your new Week 4 folder.
- 3. Open the file Week 4 Joining and Reshaping BLANK.Rmd this is where we'll work today.

4. Load the Week 4 Datasets

Once each dataset has been placed inside your Week 4 folder, load them with:

```
library(tidyverse)
library(here)
library(janitor)

climate <- read_csv(here("Week 4/climate.csv")) %>% janitor::clean_names()
forest <- read_csv(here("Week 4/forest_area.csv")) %>% janitor::clean_names()
area <- read_csv(here("Week 4/country_area.csv")) %>% janitor::clean_names()
cont <- read_csv(here("Week 4/countries_continents.csv")) %>% janitor::clean_names()
```

About the datasets

- climate.csv Annual mean temperature per country (long format).
- forest_area.csv Forested area per country by year (wide format; columns are years).
- country_area.csv Static total land area (km²) per country (two columns).
- countries_continents.csv Lookup table linking each country to its continent.

Once everything is loaded, we are ready to start joining the datasets together!

Important! Knitting to PDF

If you've had issues with knitting to PDF, try running the following two commands in your console:

```
install.packages("tinytex")
tinytex::install_tinytex()
```

... one line at a time. The second line (install_tinytex()) will take some time (approx. 30-60 minutes! depending on the internet connection), so be patient and let it finish installing.