

Data Visualization Workshop

Pre-Workshop Setup Instructions

Please complete the following steps **before arriving** at the workshop.

If anything in this setup doesn't work, don't panic. Installation issues are common and fixable, and we'll make sure everyone is up and running at the workshop.

Step 1 — Create Your Working Folder

1. On your computer, create a new folder.
 - Suggested name: **DataViz_Workshop**
2. This folder will be your **working directory**.
All workshop files must go here.
3. Save the file: **penguins.csv** into this folder.
4. Save **all future materials** (scripts, slides, data files) into this same folder.

This keeps everything organized and prevents file path errors.

Step 2 — Install or Update R and RStudio

You must have both R and RStudio installed, preferably updated to the latest version.

Install or Update R

Download from:

→ <https://cran.r-project.org/>

- Click your operating system (Mac / Windows)
- Install the latest version
- If you already have R installed, reinstalling updates it

Install or Update RStudio

Download from:

→ <https://posit.co/download/rstudio-desktop/>

- Install the free Desktop version
- Open RStudio after installation
- Go to **Help → Check for Updates**

Step 3 — Install Required Packages

You will need the following packages ([see below](#) for instructions):

- **ggplot2**
- **here**
- **readr**
- **dplyr**
- **tidyr**
- **stringr**
- **lubridate**
- **forcats**
- **janitor**
- **scales**
- **patchwork**

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Option A: run the Setup Script attached to this email:

Open the file: `install_packages.R` in RStudio

To use it:

1. Save `install_packages.R` into your workshop folder.
2. Open RStudio.
3. Click **File** → **Open File...**
4. Open `install_packages.R`
5. Highlight all the code in the file; Click **Run** (upper-right corner of your *Source* panel, where this code file displays)

That's it.

If a package is already installed, it will simply update it.

Option B: if you prefer to install manually

You can also copy and paste this into the Console in RStudio:

```
install.packages(c("ggplot2", "here", "readr", "dplyr", "tidyr",  
"stringr", "lubridate", "forcats", "janitor", "scales", "patchwork"))
```

Step 4 — Last:

Open RStudio and:

1. Click **File** → **New Project**
2. Choose **Existing Directory**
3. Select your workshop folder

This ensures R automatically uses the correct working directory.

Troubleshooting (if you hit an error)

If something does not work during setup, try the steps below.

1. "Package '___' is not available for this version of R"

This usually means your version of R is outdated.

Fix:

1. Go to: <https://cran.r-project.org/>
2. Download and install the latest version of R.
3. Restart your computer.
4. Re-run `install_packages.R`.

2. Installation takes a long time

That is normal.

- The first time installing packages can take 5–15 minutes.
- You may see a lot of text scrolling in the console.
- That is expected.

Wait until you see:

`Package installation complete.`

3. "There is no package called '___' when loading a library

That means installation didn't complete.

Try running:

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```
install.packages("ggplot2", dependencies = TRUE)
```

If that works, rerun the full install script.

4. “cannot open file ‘penguins.csv’”

This is almost always a working directory issue.

Recommended Fix (Best Practice): Instead of using `setwd()`, create a Project:

1. Open RStudio.
2. Click **File** → **New Project**
3. Choose **Existing Directory**
4. Select your workshop folder.

Now RStudio will automatically use the correct folder.

5. Mac users: “Xcode command line tools not installed”

If prompted, run this in your Mac Terminal:

```
xcode-select --install
```

Then re-run the package installation.

6. Completely stuck?

If you email me before the workshop, please include:

- A screenshot of the full error message
- Your operating system (Mac/Windows)
- Your R version (run `R.version.string` in the Console)

That helps me diagnose quickly.