

Lab 1: Installation Clinic

API 209 Math Camp 2026

Thursday, August 13, 2026, 3:00–4:00 p.m.

What this lab is for

This first lab makes sure that everyone can use the same course project before we begin working with data. We will open the project in RStudio, run one setup check, repair any missing pieces, confirm that Codex can access the project, and run the check again. This is an installation clinic, not a graded exercise, and there is nothing to submit.

Please have your laptop, the complete Math Camp project folder, RStudio, and your Harvard-supported Codex account available. Keep the complete checker output visible when you ask for help; it tells us which part of the setup needs attention.

What we will do

1. Open `math-camp-2026.Rproj` in RStudio.
2. Open the **Terminal** tab and run the initial check:

```
Rscript code/check_setup.R
```

3. Read the result together. If it is red or yellow, we will repair the first reported issue, rerun the command, and continue one issue at a time. The checker covers the project folder, R, required packages, Quarto, and the frozen teaching data.
4. Open the same project folder in Codex and confirm that the course files are visible. We will not upload credentials, identifiable student records, or confidential research material.
5. Run the complete readiness check:

```
Rscript code/check_setup.R --codex-confirmed
```

How the lab ends

The goal is a final line that reads `RESULT: GREEN`. If your computer is not green by 4:00 p.m., you will leave knowing the exact failing check, the next repair to try, and who will help you follow up. No one begins the shared data exercise without a working setup or a clear repair plan.

If your result is green while other setup repairs continue, spend 8–10 minutes on one read-only project check in Codex. Ask it to locate the course start instructions, the frozen WDI data, and the indicator dictionary without changing files or running commands. Require the exact path and a one-sentence description of each file. Verify every path manually in RStudio, open one named file, and write one sentence distinguishing what the agent read from the files from what it inferred. There is no submission for this exercise.

The complete instructions remain available in the Lab 1 guide and the setup guide.