MICOM

MI-Support

Prepared For Anything

A data analysis, capacity building program

Examples of Projects

Types of projects we can help with include:

- Evaluating the effectiveness of a campaign or program
- Analyzing data from wastewater testing sites
- Building a data visualization dashboard or report
- Creating a disease forecasting model
- Automating report of daily Excel files
- Hosting MI-Support-led data analysis / coding workshops

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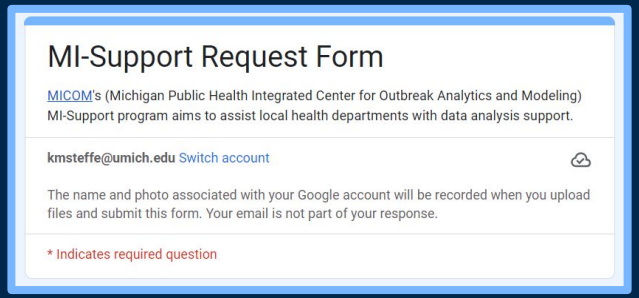
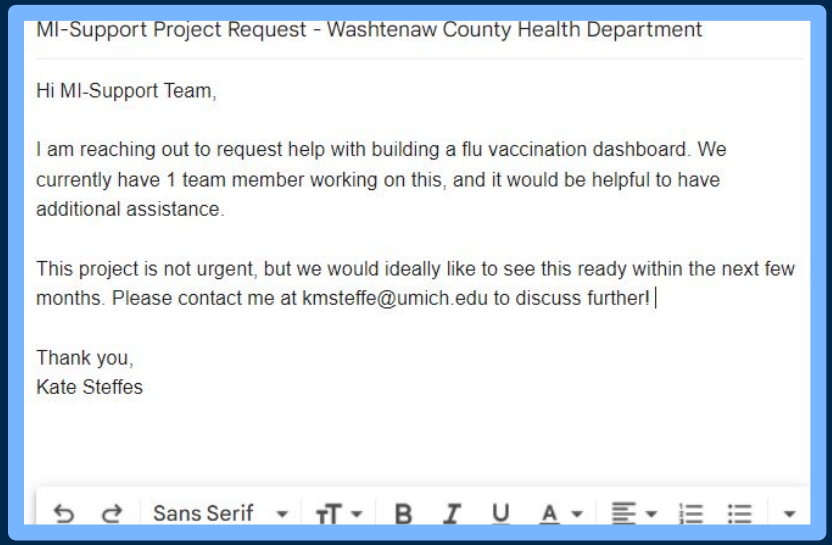
Submitting a MI-Support Request

- Submit a request through our Google Form

- Not sure about your request or want more information? Email us at micom-misupport@umich.edu





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All Code, Files, etc. are available at:

https://micom-hub.github.io/r_workshop_page.html

Please download the
27 June 2025 data files.

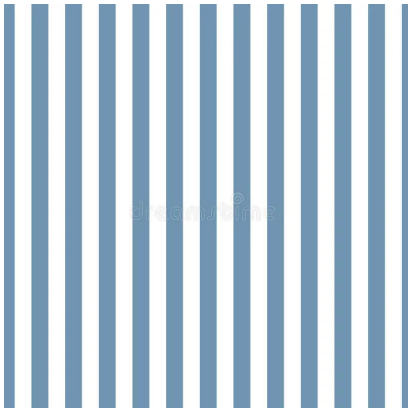
Introduction to R: Part 2

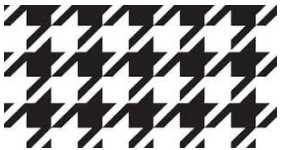
2025-06-27

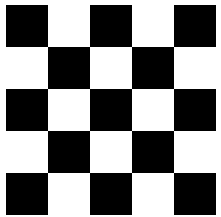
Introductions

Please share your Name, Title/Organization, and:

Stars, Stripes, or Other







Let’s Get Into It!

Today's workshop

More active coding-focused—we will have three main "tasks" to do

Some of you may quickly go through all three tasks

Many of you may only work on task 1 today! (or 1 and a bit)

We will work in bouts and reconvene to share how we did it

Consider pairing up! Can really help to code together!

Task 1

You've got about 20 years of individual level case data, and you'd like to generate a table of annual case counts and rates to use in a presentation.

See: https://www.washtenaw.org/2617/Tuberculosis-TB-Information

Washtenaw County TB Data

Year	# Active TB Cases	# Pulmonary Cases	# Multi-drug Resistant Cases	Washtenaw Active TB rate (all types) per 100,000
2024	8	5	0	2.15
2023	9	8	0	2.4
2022	8	6	1	2.1
2021	4	3	0	1.0

Task 2

You want to visualize whether cases are increasing or decreasing over the years. In addition, you'd like to quantify the extent of the increase or decrease.

Task 3

You'd like to compare your county data to another data source. For example purposes, we'll compare to nationwide TB case rates, but the method here could be the same for any other data source (such as another county, or the state of Michigan).

Extra

You'd like to identify the multi-drug resistant set of TB cases in the dataset. (Note: There are a lot of ways to solve this particular problem!)