

Goals for Thursday's lab (meet in basement B5 MLH):

1.) Learn basics of R/Rstudio.

**lap1.pptx/ lap1.pdf:** Instructions on installing and working with R/Rstudio.

**Matrices\_and\_Data\_Frames.R:** commands from the Swirl course by this name.

**uploadDatatoRetc.R:** commands for reading data into R. Also includes commands taken from the Swirl course: Manipulating data with dplyr - Getting and Cleaning Data.

**createArtificialDataSets.r:** various ways to create artificial data.

2.) Play with the TDA mapper R package (**focus on artificial data**).

**TDAmapper.r:** Modify this script by changing parameters and applying TDA mapper to a variety of data sets

Create slides for some of these data sets. Follow the format in sample slide, **sample.pptx**

3.) Start draft of a poster on TDA mapper (**Template Examples.pptx**). See also **Making A Poster\_0.pdf** both from ICRU)

4.) Complete HW 1: Add your info (picture, name, interests) to our course wiki class list