

# Homework 14

Creation of an app with a dynamic UI. Our goal will be able to create the the app you [can find here](#).

The dataset used is about sleep habits of mammals. It is included in the `ggplot2` package in a dataset called `msleep`.

To do:

- Create a folder ‘DynamicUI’.
- In the folder save [this starter ui file](#) and [this starter server file](#).
- We want to allow for our UI to change based on user input.
- Recall there are three major ways to do dynamic user interfaces (each will be used once in the new app):
  - `update*` functions
  - `renderUI` with `uiOutput`
  - `conditionalPanel`
- First if the user clicks on “Color code conservation status”, a new checkbox appears that changes the opacity of the points based on the `REM` sleep variable. Use a `conditionalPanel` to create this box and change the plot appropriately.
- Notice that if the opacity checkbox is clicked then the slider changes its minimum value to 3 (so the opacity change can be seen). If the checkbox is unclicked the minimum goes back to 1. Use an `update*` function to do this.
- The title changes based on which `vore` is selected. This is just a 1st level header (`h1`) being used to replace the `titlePanel`. Use `renderUI/uiOutput` to create this new title.