

Project

```
library(tidyverse)

food <- readr::read_csv("data/Food_Supply_kcal_Data.csv")

food <- food %>%
  mutate(income = ifelse(Country %in% c("Afghanistan","Burkina Faso", "Central African Republic", "Chad", "Cote d'Ivoire", "DRC", "Ecuador", "Egypt", "Ethiopia", "Ghana", "Guinea", "Honduras", "Kenya", "Liberia", "Madagascar", "Mali", "Mozambique", "Niger", "Nigeria", "Pakistan", "Samoa", "Sao Tome and Principe", "Senegal", "Solomon Islands", "Sri Lanka", "Suriname", "Tajikistan", "Tanzania", "Togo", "Tunisia", "Uganda", "Ukraine", "Yemen", "Zambia", "Zimbabwe"), "LIC",
    ifelse(Country %in% c("Algeria","Angola","Bangladesh", "Belize", "Benin", "Bolivia", "Botswana", "Brazil", "Cameroon", "Cape Verde", "Chad", "Cote d'Ivoire", "DRC", "Ecuador", "Egypt", "Ethiopia", "Ghana", "Guinea", "Honduras", "Kenya", "Liberia", "Madagascar", "Mali", "Mozambique", "Niger", "Nigeria", "Pakistan", "Samoa", "Sao Tome and Principe", "Senegal", "Solomon Islands", "Sri Lanka", "Suriname", "Tajikistan", "Tanzania", "Togo", "Tunisia", "Uganda", "Ukraine", "Yemen", "Zambia", "Zimbabwe"), "LMIC",
    ifelse(Country %in% c("Albania","Argentina","Armenia","Azerbaijan", "Belarus", "Belgium", "Bulgaria", "Canada", "Czechia", "Denmark", "Finland", "France", "Germany", "Greece", "Hungary", "Iceland", "Ireland", "Israel", "Italy", "Japan", "Korea", "Latvia", "Lithuania", "Luxembourg", "Malta", "Netherlands", "Norway", "Poland", "Portugal", "Romania", "Russian Federation", "Saudi Arabia", "Singapore", "South Korea", "Spain", "Sweden", "Switzerland", "Taiwan", "Thailand", "Turkey", "Ukraine", "United Kingdom", "United States", "Vietnam", "Yemen", "Zambia", "Zimbabwe"), "UMIC", "HIC"))))

food <- food %>%
  mutate(Grains = `Cereals - Excluding Beer` + `Starchy Roots`) %>%
  mutate(Vegetables2 = Pulses + `Vegetal Products` + Vegetables) %>%
  mutate(Fruits = `Fruits - Excluding Wine`) %>%
  mutate(Fats = `Animal fats` + Oilcrops + Treenuts + `Vegetable Oils`) %>%
  mutate(Protein = `Animal Products` + Eggs + `Fish, Seafood` + Meat + `Milk - Excluding Butter` + Offal) %>%
  mutate('Alcohol/Stimulants' = `Alcoholic Beverages` + Stimulants) %>%
  mutate(Other = `Aquatic Products, Other` + Miscellaneous + Spices + `Sugar Crops` + `Sugar & Sweeteners`) %>%

meanfood <- food %>%
  summarize(meangrains = mean(Grains), meanveg = mean(Vegetables2), meanfruit = mean(Fruits), meanfat = mean(Fats), meanprotein = mean(Protein), meanother = mean(Other))

food %>%
  group_by(income) %>%
  summarize(meangrains = mean(Grains), meanveg = mean(Vegetables2), meanfruit = mean(Fruits), meanfat = mean(Fats), meanprotein = mean(Protein), meanother = mean(Other))
  print()

## # A tibble: 4 x 7
##   income meangrains meanveg meanfruit meanfat meanprotein meanother
##   <chr>      <dbl>   <dbl>   <dbl>   <dbl>      <dbl>      <dbl>
## 1 HIC        16.9    38.1     1.94    9.40       25.0        6.04
## 2 LIC        32.0    48.7     1.94    6.23        7.75        2.76
## 3 LMIC       28.6    46.6     1.92    6.48       11.2        4.32
## 4 UMIC       21.9    42.0     2.22    6.99       19.1        6.14

#t.test()

#ggplot(food, aes(x = Grains, Vegetables, Fruits, Fats, Protein)) + geom_bar()
```

““