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
                         ifelse(Country %in% c("Algeria","Angola","Bangladesh", "Belize", "Benin", "Boli
Pakistan", "Samoa", "Sao Tome and Principe", "Senegal", "Solomon Islands","Sri Lanka", "Suriname", "Taji
                         ifelse(Country %in% c("Albania","Argentina","Armenia","Azerbaijan", "Belarus",
Panama", "Paraguay", "Peru", "Philippines", "Republic of Moldova", "Romania", "Russian Federation", "Sa
             "UMIC", "HIC"))))
```

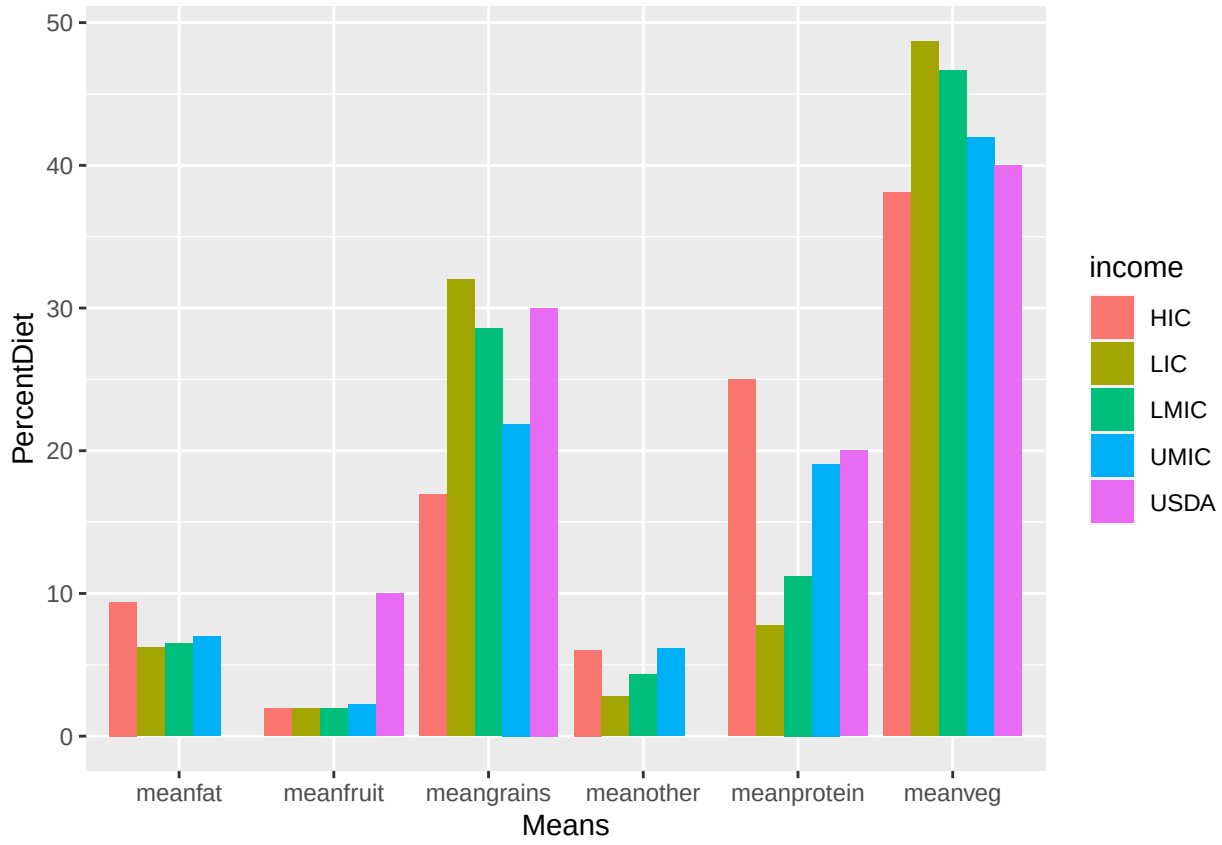
```
food <- food %>%
  mutate(Grains = `Cereals - Excluding Beer` + `Starchy Roots`) %>%
  mutate(Vegetables2 = Pulses + `Vegetal Products` + Vegetables) %>%
  mutate(Fruits = `Fruits - Excluding Wine`) %>%
  mutate(Fats = `Animal fats` + Oilcrops + Treenuts + `Vegetable Oils`) %>%
  mutate(Protein = `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 & Sweetener
```

```
meanfood <- food %>%
  summarize(meangrains = mean(Grains), meanveg = mean(Vegetables2), meanfruit = mean(Fruits), meanfat =

meanfoodincome <- food %>%
  group_by(income) %>%
  summarize(meangrains = mean(Grains), meanveg = mean(Vegetables2), meanfruit = mean(Fruits), meanfat =
  add_row(income="USDA", meangrains=30, meanveg=40, meanfruit=10, meanprotein=20) %>%
  pivot_longer(cols=meangrains:meanother, names_to = "Means", values_to = "PercentDiet")

  ggplot(data=meanfoodincome, aes(x=Means, y=PercentDiet, fill=income))+geom_col(position="dodge")
```

```
## Warning: Removed 2 rows containing missing values (geom_col).
```




```
#t.test()

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

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