

# Main

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```
library(ggplot2)
```

```
## Warning: package 'ggplot2' was built under R version 4.1.3
```

```
library(dplyr)
```

```
## Warning: package 'dplyr' was built under R version 4.1.3
```

```
##
```

```
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:stats':
```

```
##
```

```
##      filter, lag
```

```
## The following objects are masked from 'package:base':
```

```
##
```

```
##      intersect, setdiff, setequal, union
```

```
library(gghighlight)
```

```
## Warning: package 'gghighlight' was built under R version 4.1.3
```

```
df <- read.csv("Counsumer_Price_Index.csv")
```

```
df <- df %>%
```

```
  rename(Location = i..Location)
```

```
sav <- df %>%
```

```
  filter(Location %in% c("IRL", "CAN", "AUS",  
                        "USA", "FRA", "DEU",  
                        "ESP", "ITA", "NLD", "OECD")) %>%
```

```
  filter(Time == "2022-12") %>%
```

```
  mutate(Location = recode(Location,  
                           "IRL" = "IRELAND",  
                           "AUS" = "AUSTRALIA",  
                           "USA" = "UNITED STATES",  
                           "DEU" = "GERMANY",
```

```

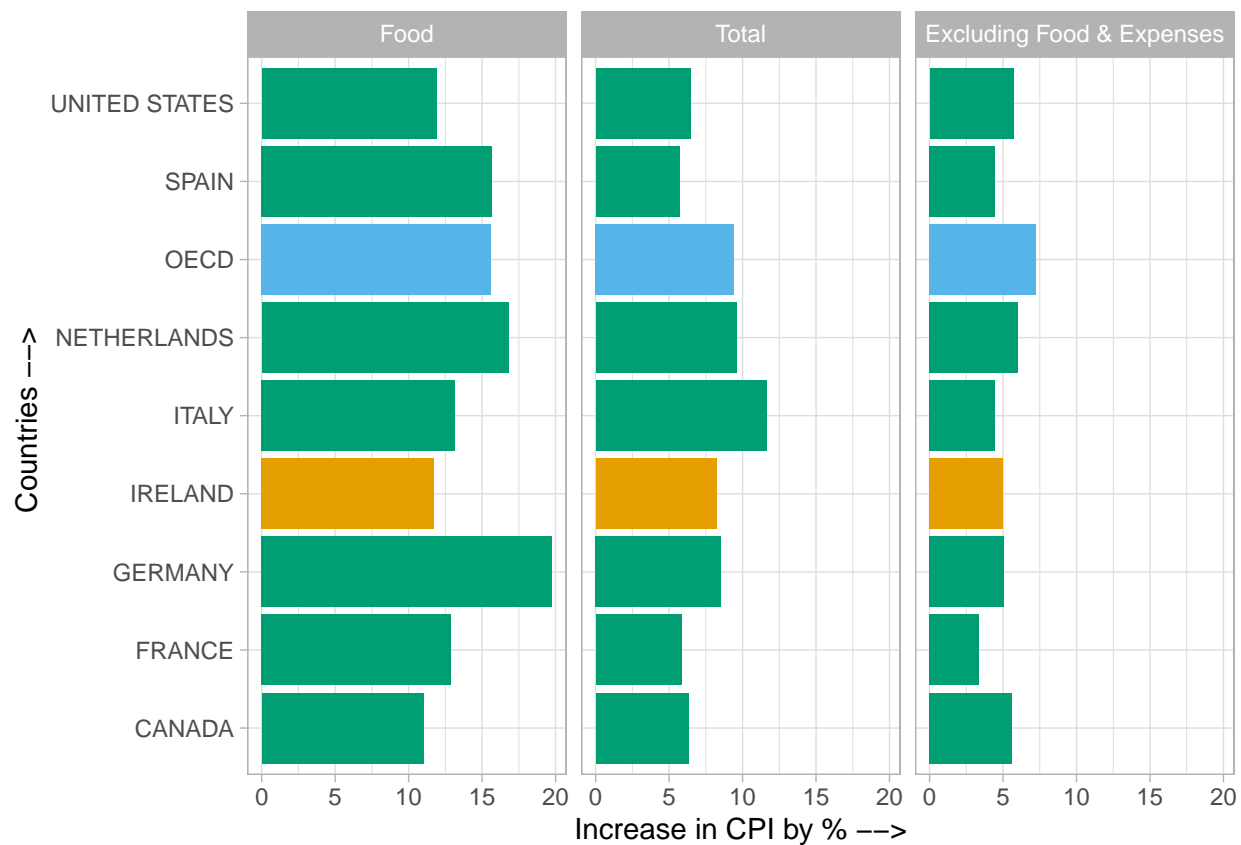
      "CAN" = "CANADA",
      "ESP" = "SPAIN",
      "ITA" = "ITALY",
      "FRA" = "FRANCE",
      "NLD" = "NETHERLANDS")) %>%
filter(Subject != "Energy")

order <- sav %>%
  group_by(Location) %>%
  summarise(sum = sum(Percentage)) %>%
  arrange(desc(sum)) %>%
  select(Location) %>%
  unlist() %>%
  unname()

colorblind_colors <- colorBlindness::availableColors()
sav %>%

  ggplot(aes(x = factor(Location, order), y = Percentage)) +
  geom_col(data = filter(sav, Location == "IRELAND"), fill = colorblind_colors[2] ,linewidth=0.2, position="dodge") +
  geom_col(data = filter(sav, Location == "OECD"), fill = colorblind_colors[3] ,linewidth=0.2, position="dodge") +
  xlab("Countries --> ") +
  geom_col(data = filter(sav, !Location %in% c("OECD", "IRELAND")), fill = colorblind_colors[4] ,linewidth=0.2, position="dodge") +
  xlab("Countries --> ") +
  ylab("Increase in CPI by % -->")+
  facet_grid(~Subject, labeller = as_labeller(c("Food" = "Food",
                                                "Total" = "Total",
                                                "Total_Minus_Food_Energy" = "Excluding Food & Expenses")),
             labeller = as_labeller(c("Food" = "Food",
                                       "Total" = "Total",
                                       "Total_Minus_Food_Energy" = "Excluding Food & Expenses")))+
  coord_flip()+
  labs(fill = "Country / Organization")+
  scale_fill_discrete(name = "Country / Organization", labels = c("OECD", "Other countries in OECD", "Ireland"))+
  theme(axis.text.x = element_text(angle = 90, vjust = 0.5, hjust=1),
        legend.position = "top")+
  theme_light()

```



```
sav %>%
  ggplot(aes(x = Subject, y = Percentage, color = Subject)) +
  geom_point(data = filter(sav, Location == "IRELAND"), shape = "square", size = 3) +
  geom_point(data = filter(sav, Location == "OECD"), shape = "diamond", size = 3) +
  geom_point(data = filter(sav, !Location %in% c("OECD", "IRELAND")), shape = "circle", size = 2, position = "bottom") +
  coord_flip() +
  theme_light()
```

