## Inflation Data

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## 2025-05-12

The dataset we use stems from the Bank of England Research datasets.

## I quote:

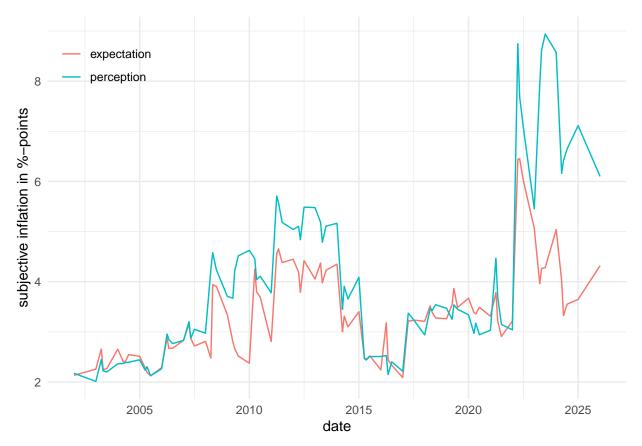
This dataset contains the individual responses to our Inflation Attitudes Survey, a quarterly survey of people's feelings about inflation and other economic variables like the interest rate.

```
# 2. use relative locations
# (relative paths instead absolute, names instead of indices)
inflation_raw <-</pre>
 readr::read_rds(here("data", "raw", "inflation.rds"))
# 3. document relevant information
# (variable names + comments)
inflation <- inflation_raw %>%
  mutate(
    # coded according to "Additional Variables in Dataset" in excel file
   age = fct_recode(
      as.ordered(age),
      `15-24` = "1",
      25-34 = "2",
      `35-44` = "3",
      ^{45-54} = ^{4}.
      55-64 = 5,
      ^{65+} = ^{6}.
      `NA`
           = "7"
      `NA`
             = "8"
   ),
    sex = fct_recode(
      as.factor(sex),
      male = "1",
      female = "2",
      other = "3",
      NA' = "4"
   ),
    education = fct_recode(as.ordered(educ), low = "1", medium = "2", high = "3"),
   perception = ifelse(P_all == 99.0, NA, P_all),
    expectation = ifelse(E1y_all == 99.0, NA, E1y_all),
    # first four characters are year, convert to date
   year = ymd(str_c(str_sub(yyyyqq, 1, 4), "-01-01")),
    # last two characters are quarters, convert to number
   quarter = as.numeric(str_sub(yyyyqq, 5, 6)),
    # calculate date as first day of the quarter
   date = date(year + dyears() / quarter),
```

```
# strip year of its date format
year = year(year)
) %>%
# only select important variables
select(age, sex, education, perception, expectation, year, quarter, yyyyqq, date)
```

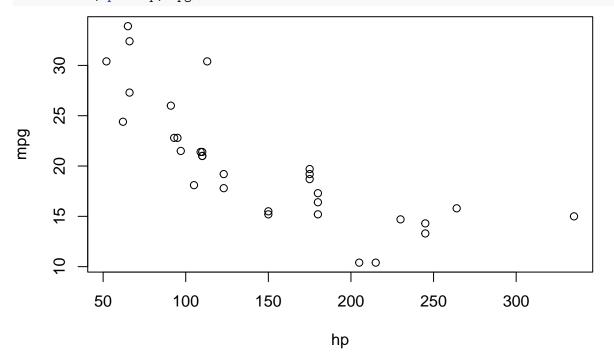
For this dataset the Bank of England asked 240.133 people for their opinion on the perceived and expected inflation. The survey has run quarterly since 2001.

```
inflation %>%
  group_by(date) %>%
  summarise(across(c(perception, expectation),
                   ~ mean(., na.rm = TRUE)),
            .groups = "drop") %>%
  pivot_longer(c(expectation, perception)) %>%
  ungroup() %>%
  ggplot() +
  geom_line(aes(date, value, color = name)) +
  theme_minimal() +
 ylab("subjective inflation in %-points") +
 labs(color = "") +
 theme(legend.position = c(.1, .9)) + NULL
## Warning: A numeric `legend.position` argument in `theme()` was deprecated in ggplot2
## 3.5.0.
## i Please use the `legend.position.inside` argument of `theme()` instead.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.
```



A code chunk is for longer code/output:

with(mtcars, plot(hp, mpg))



Inline code is for single numbers/short text:

We have 32 cars.