adpricing

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Load in Gentzkow dataset and filter for newspapers from 1960.

```
library(tidyverse)
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr 1.1.4
                     v readr
                                 2.1.5
## v forcats 1.0.0
                      v stringr
                                  1.5.1
## v ggplot2 3.5.1
                                  3.2.1
                   v tibble
## v lubridate 1.9.3
                   v tidyr
                                 1.3.1
## v purrr
             1.0.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                  masks stats::lag()
## i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become error
data <- read_delim(file.path("data/30261-0005-Data.tsv"))</pre>
## Rows: 89815 Columns: 5
## -- Column specification ------
## Delimiter: "\t"
## chr (3): adprice, adDepth, adType
## dbl (2): recid, adpricetype
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
head(data)
## # A tibble: 6 x 5
        recid adpricetype adprice adDepth adType
         <dbl>
               <dbl> <chr> <chr>
                                       <chr>
                                 11 11
## 1 1880010001
                       0 3.75
                                 11 11
## 2 1880010002
                      0 3
                                 11 11
                      0 2.83
## 3 1880010003
                                 11 11
## 4 1880010004
                      0 3.34
                                 11 11
                                        11 11
                       0 3.34
## 5 1880010005
## 6 1880010006
                       0 3.12
                                 11 11
                                        11 11
ads <- read_delim(file.path("data/30261-0002-Data.tsv"))</pre>
## Rows: 58870 Columns: 24
## -- Column specification ------
## Delimiter: "\t"
## chr (21): when, papername, polaff, category, circ, circtype, circsworn, orig...
## dbl (3): recid, permid, year
```

```
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
ads <- ads %>% filter(year == 1960)

Cleaning data for relevant information.
ads <- ads %>% select(recid, permid, circ, adprice) %>%
    filter(adprice != " ")

ads <- ads %>% mutate(circ = as.numeric(circ)) %>%
    mutate(adprice = as.numeric(adprice))
corr <- ads %>% summarise(correlation = cor(circ, adprice, use = "complete.obs")) %>%
    pull(correlation)
print(corr)
```

Correlation between circulation and adprice is 0.8218903 in 1960.

[1] 0.8218903