

Life's Too Short To Deve Slow
Read











. Second secono

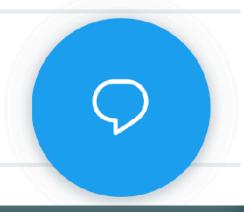




Interactive programming environments should give you feedback faster than your impulse to open Twitter or HN.

3:34 PM · Jun 18, 2019 · Twitter Web Client

183 Likes **35** Retweets





Observations: 14,776,615

Variables: 11

File Size: 1,556

chr [4]: medallion, hack_license,

dttm [1]: pickup_datetime



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Variables: 11

File Size: 1.556

chr [4]: medallion, hack_license,

3ttm [1]: pickup_datetime



Observations: 14,776,615

Variables: 11

File Size: 1.55G

chr [14]: medallion, hack_license,

tttm [1]: pickup_datetime



Observations: 14,776,615

Variables: 11

File Size: 1.55G

chr [4]: medallion, hack_license, v

Jttm [1]: pickup_datetime



Observations: 14,776,615

Variables: 11

File Size: 1.55G

chr [4]: medallion, hack_license,

dbl [6]: rare_amount, surcharge,

dttm [1]: pickup_datetime



Observations: 14,776,615

Variables: 11

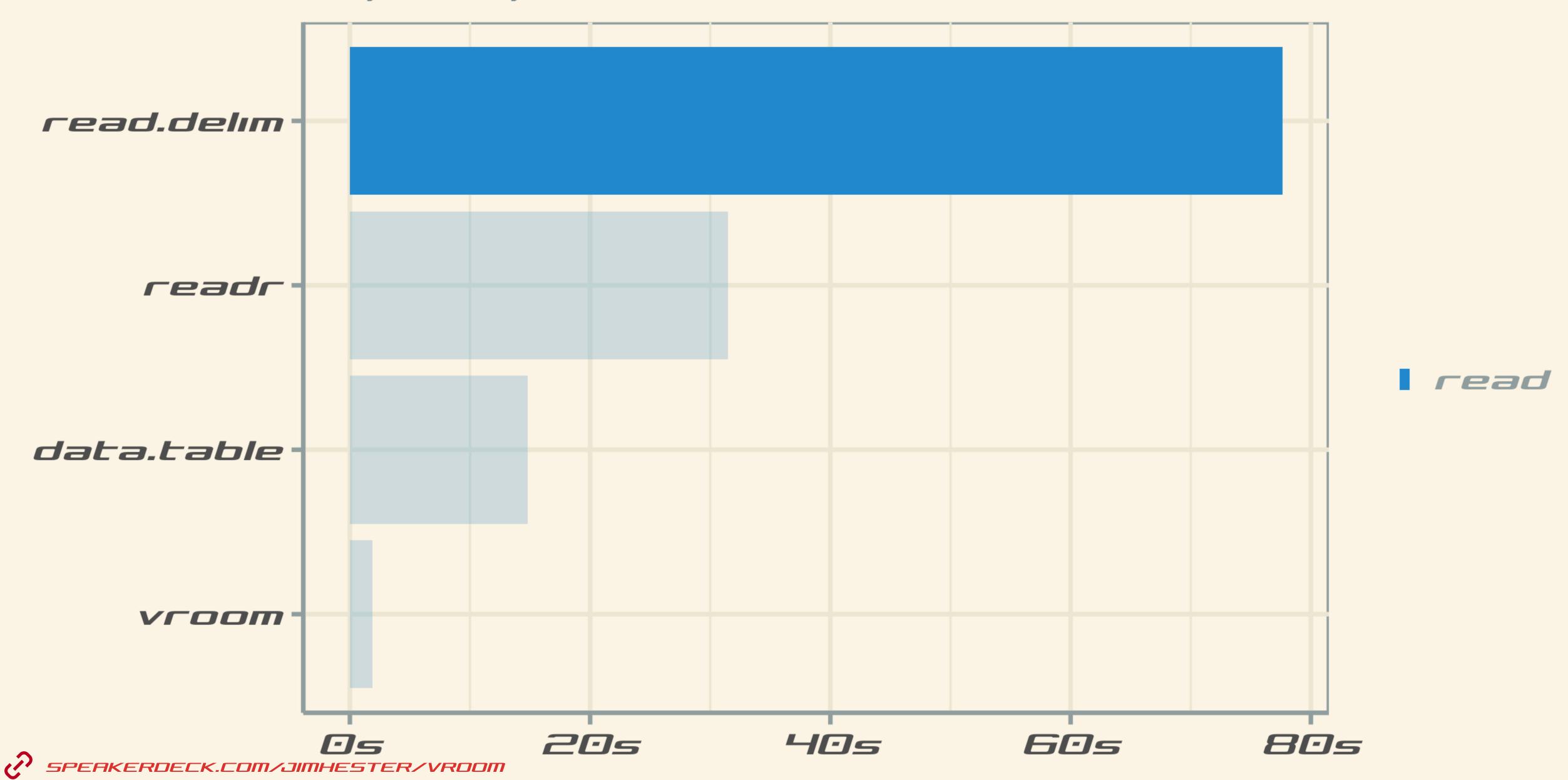
File Size: 1.55G

chr [4]: medallion, hack_license,

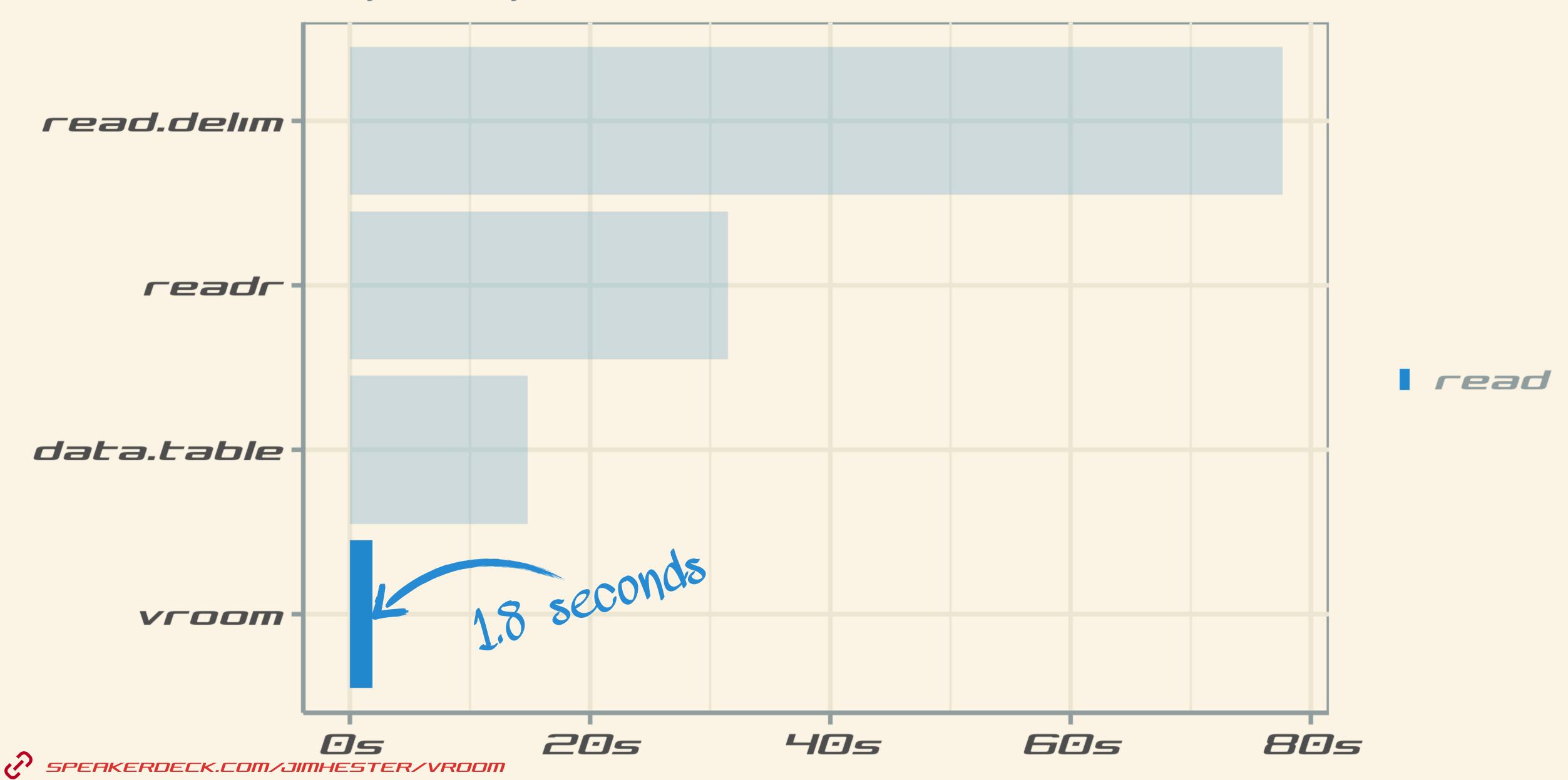
dbl [6]: rare_amount, surcharge,

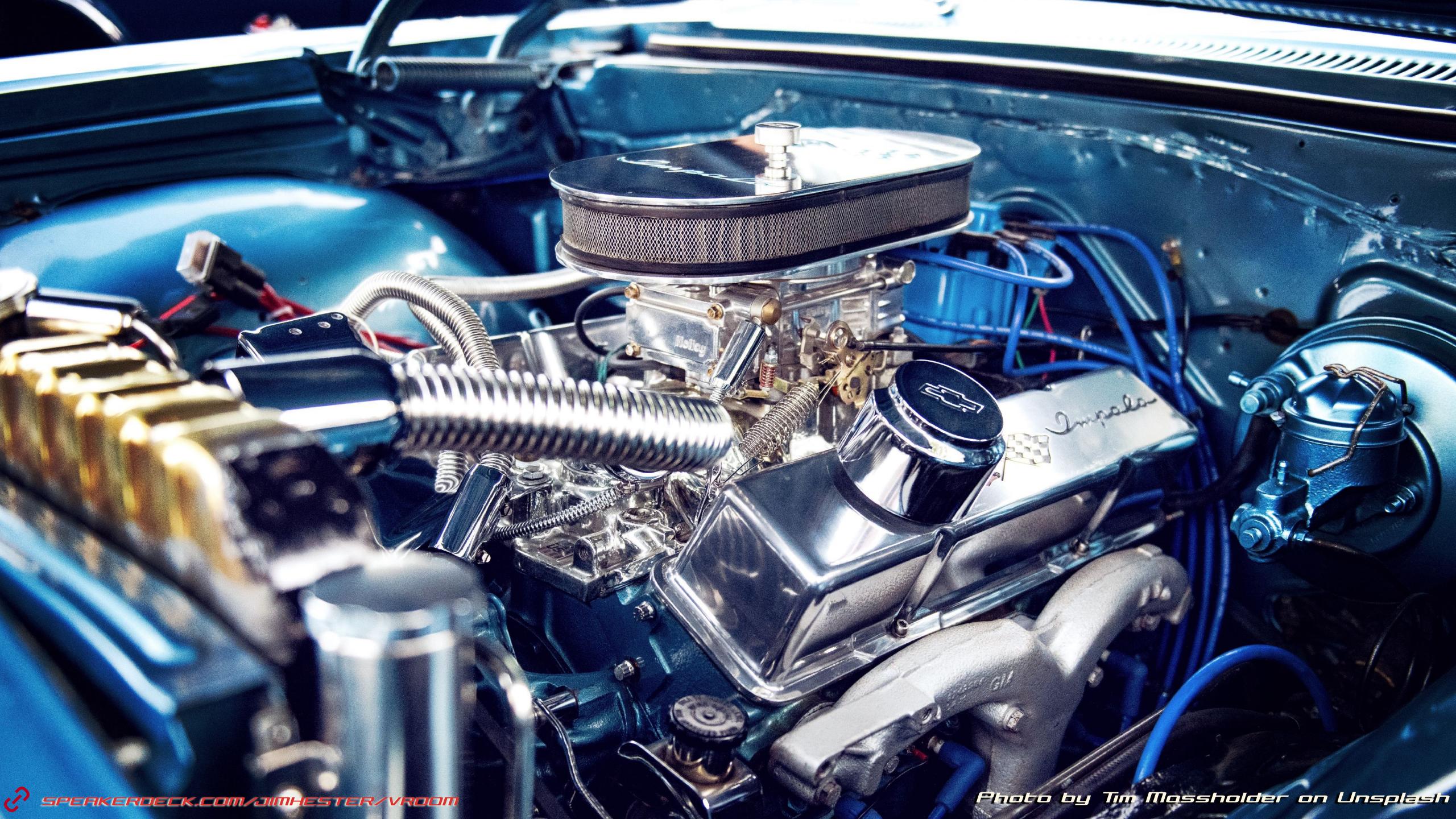
dttm [1]: pickup_datetime

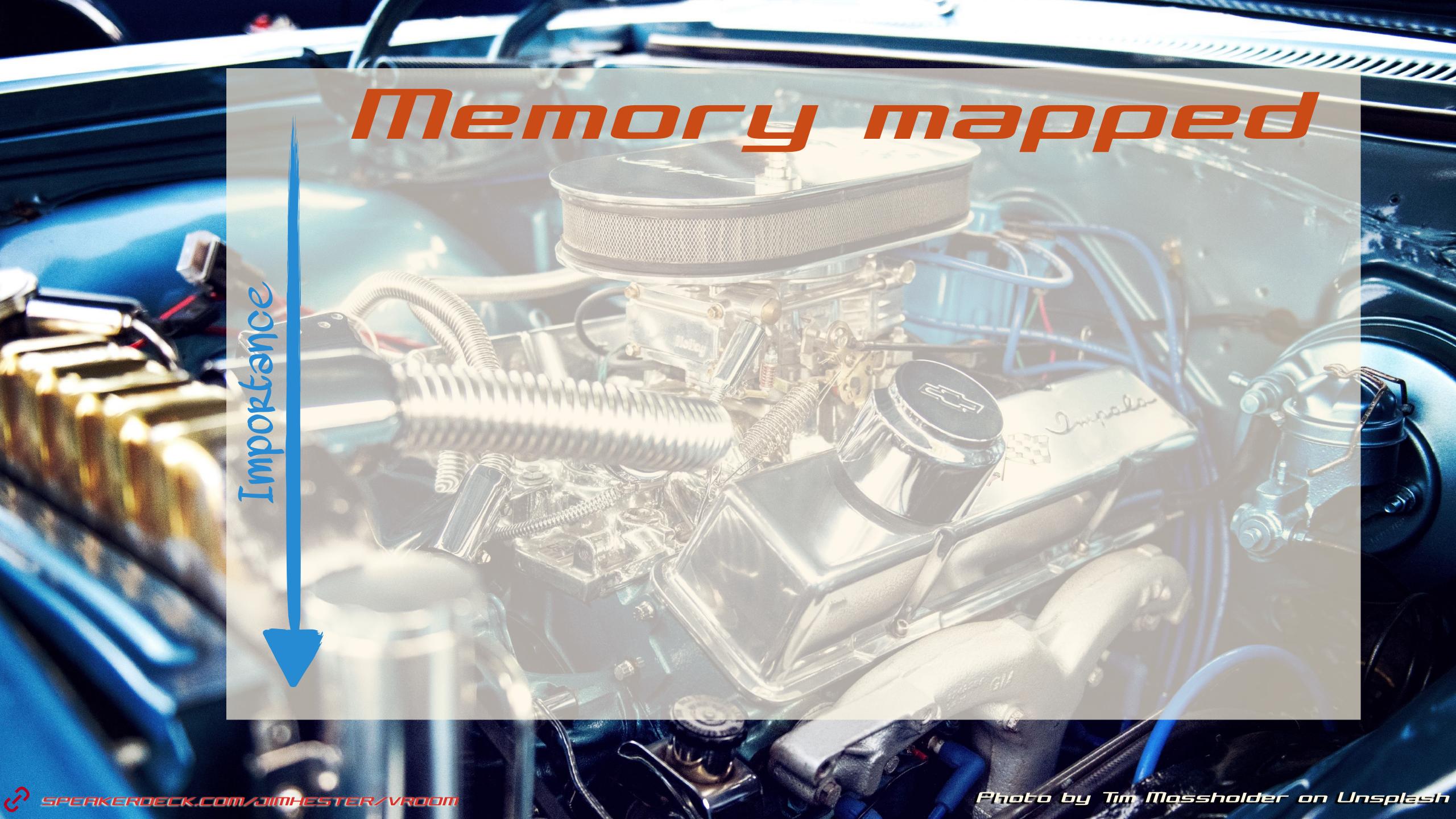
Taxi trip fare 14,776,615 x 11 - 1.55GB



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Memory mapped Photo by Tim Mossholder on Unsplash SPERKERDECK.COM/JIMHESTER/VROOM

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Alternative representation



Alternative representation

R 3.5+



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Custom memory storage



Alternative representation

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Custom memory storage

Transparent to R & C/C++



Alternative representation

R 3.5+

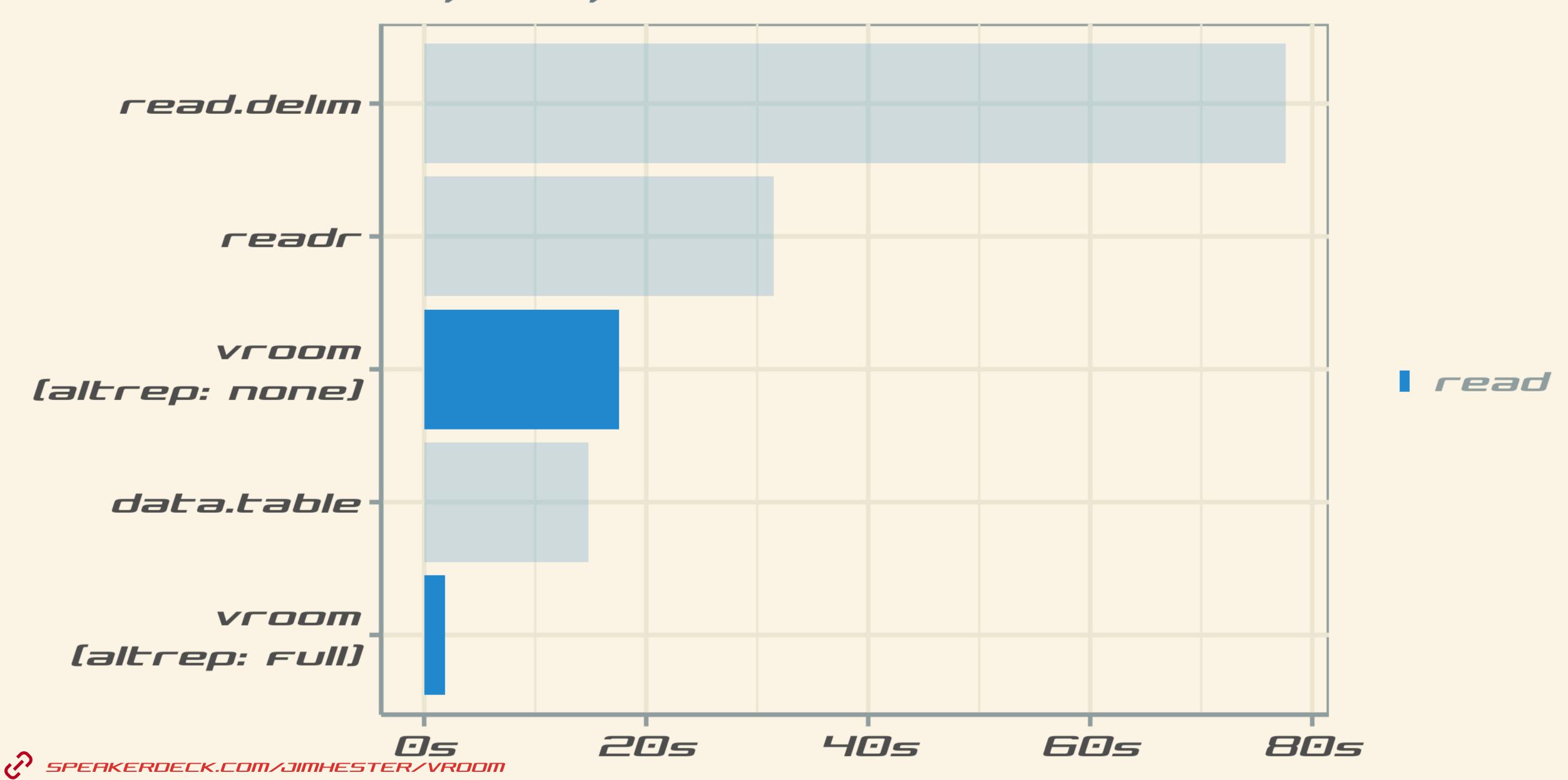
Custom memory storage

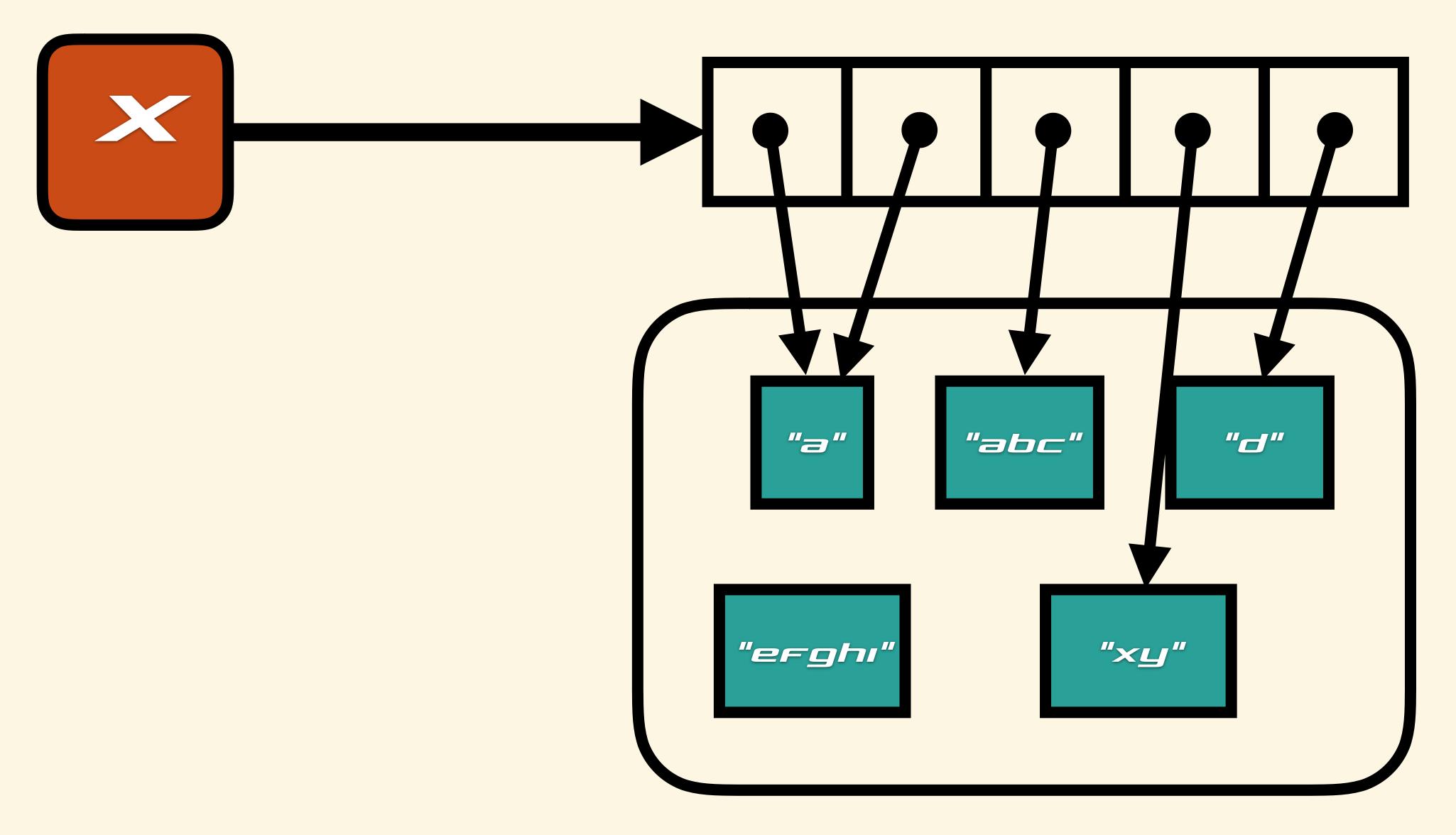
Transparent to R & C/C++

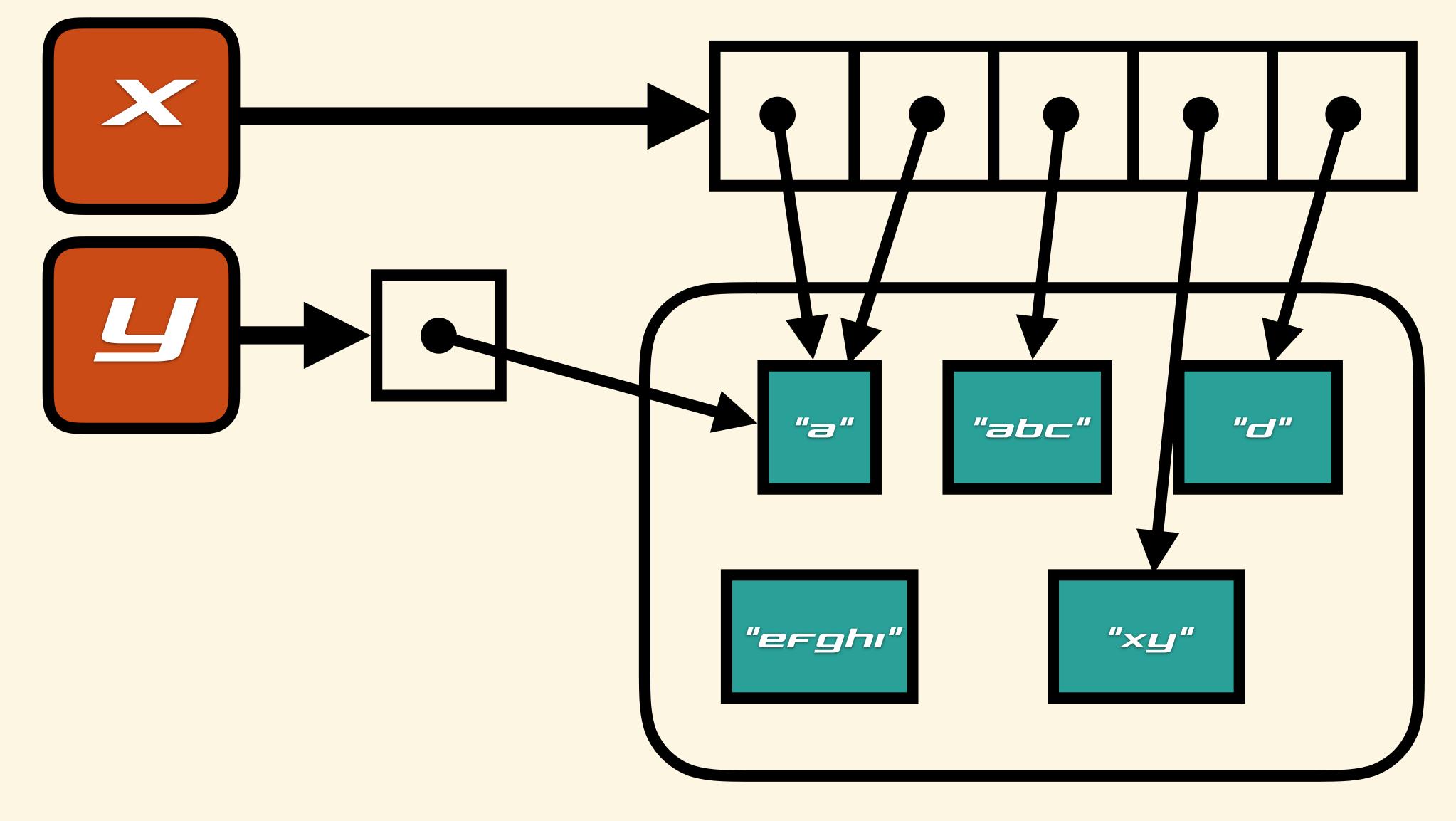
On-demand parsing

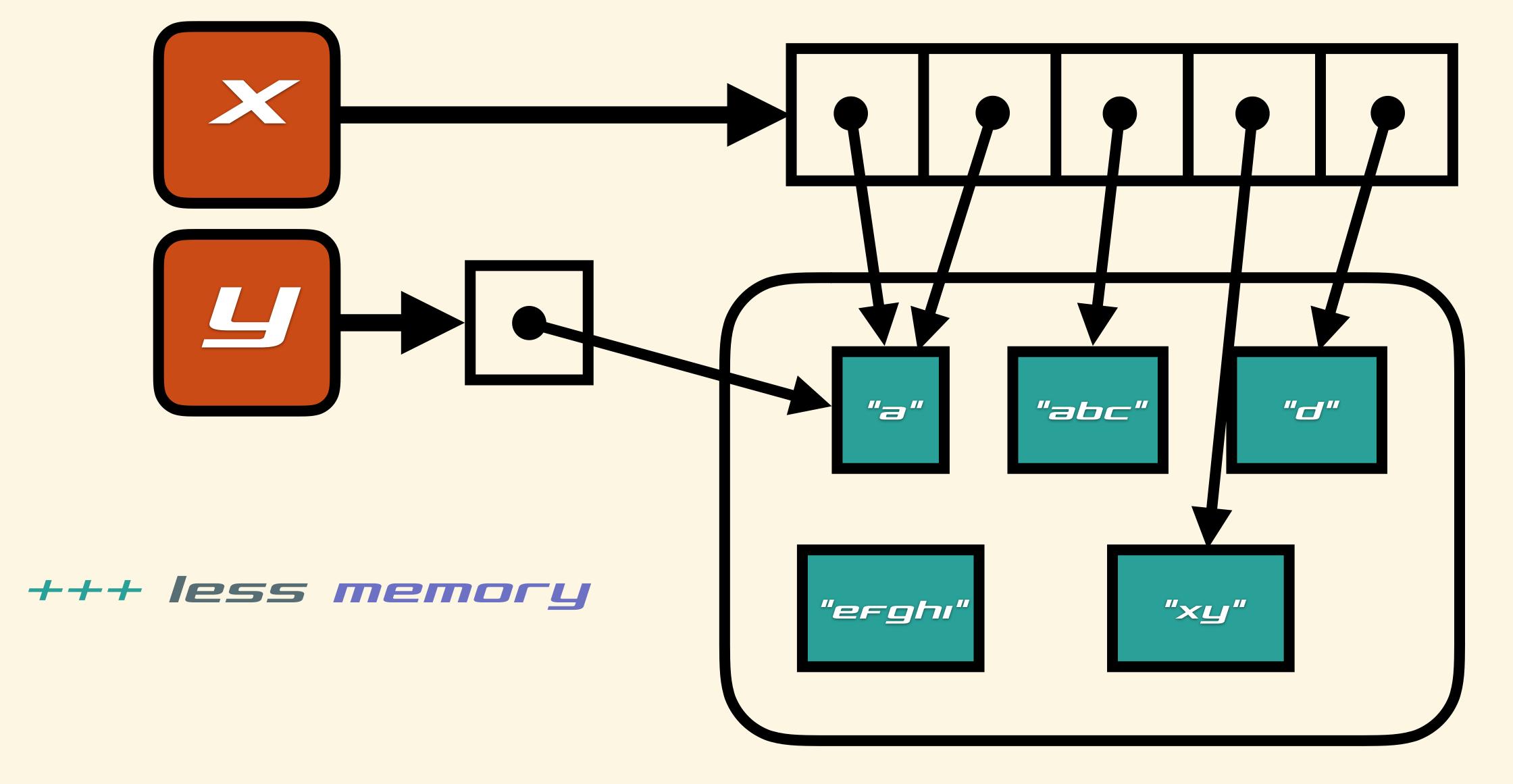


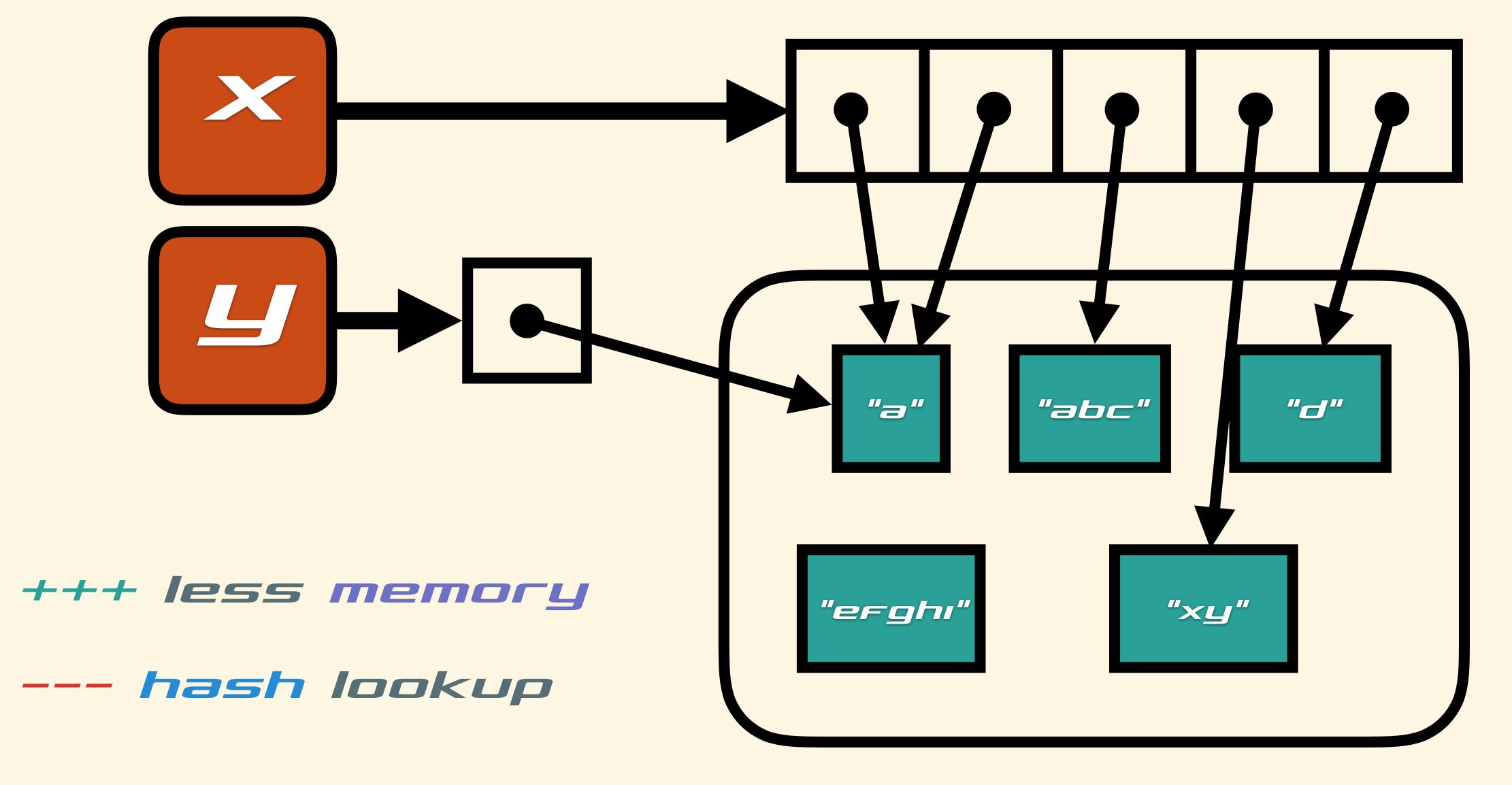
Taxi trip fare 14,776,615 x 11 - 1.55GB

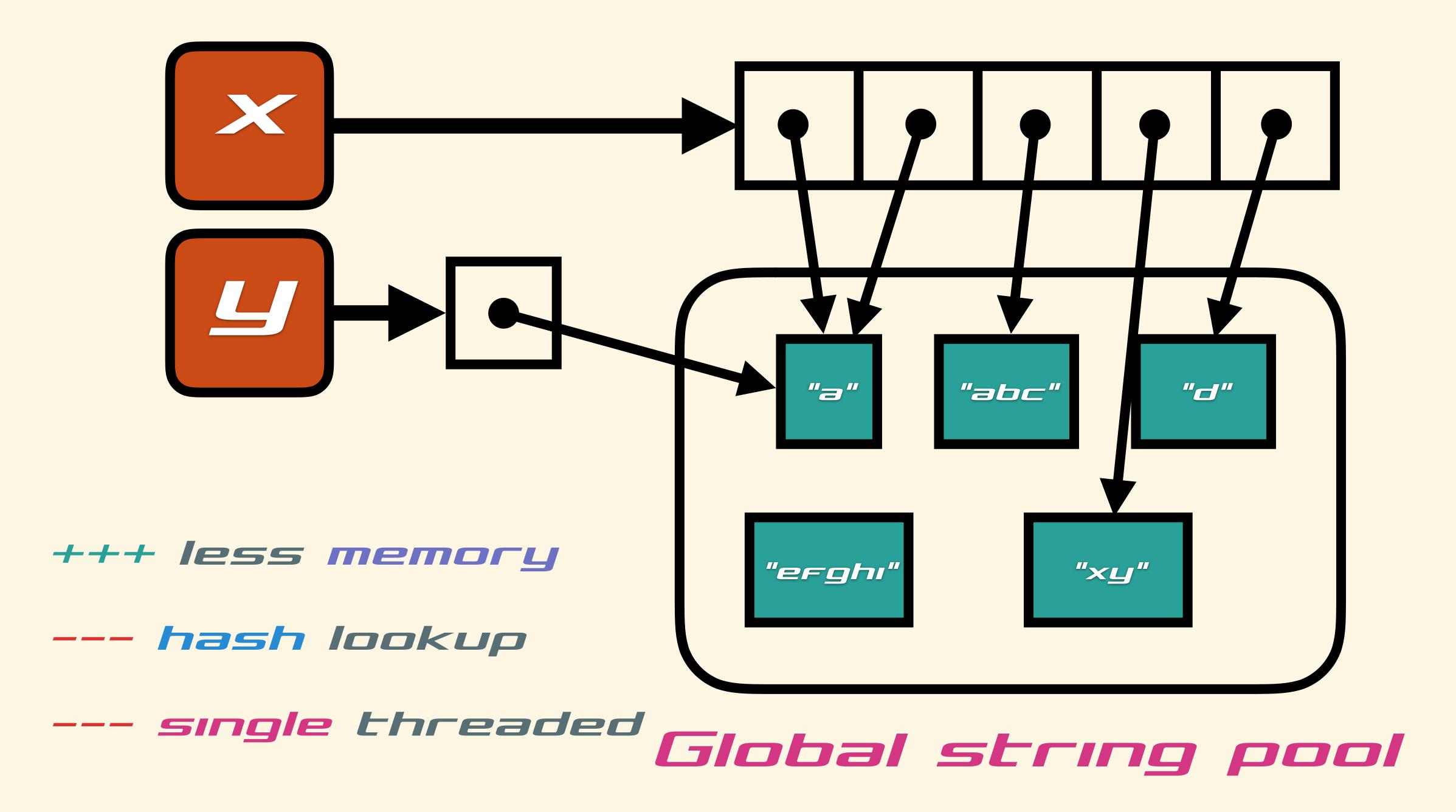




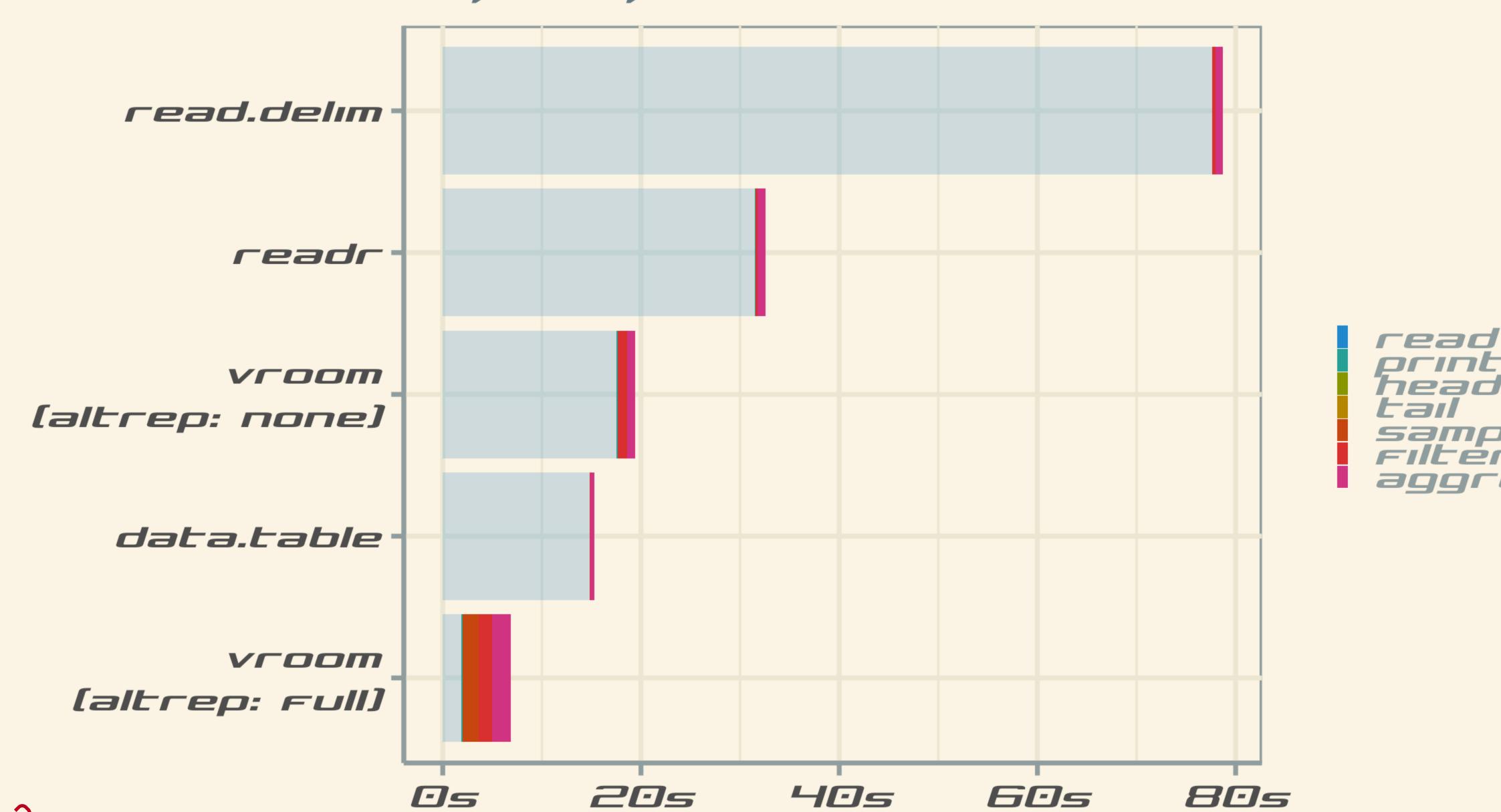






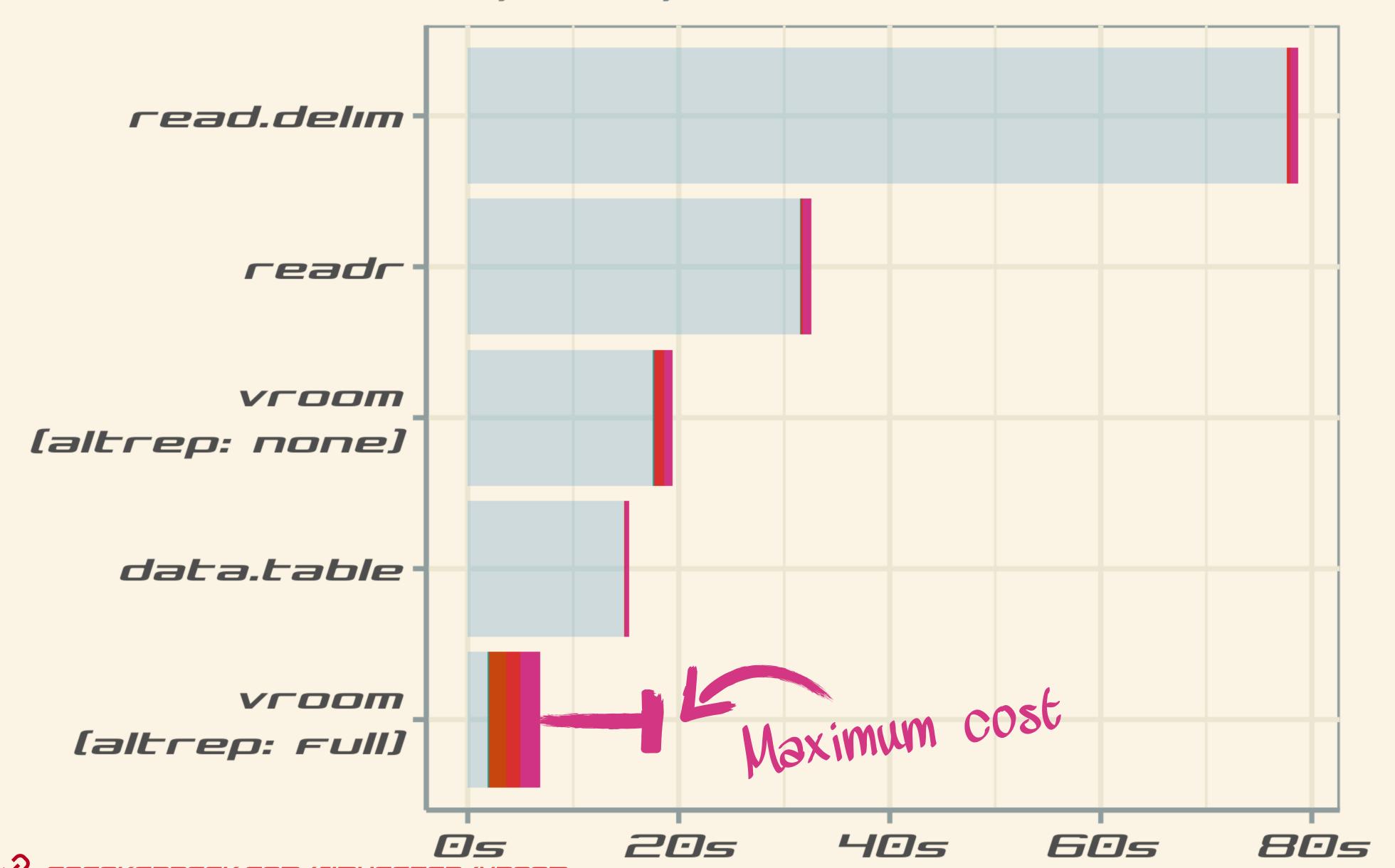


Taxi trip fare 14,776,615 x 11 - 1.55GB





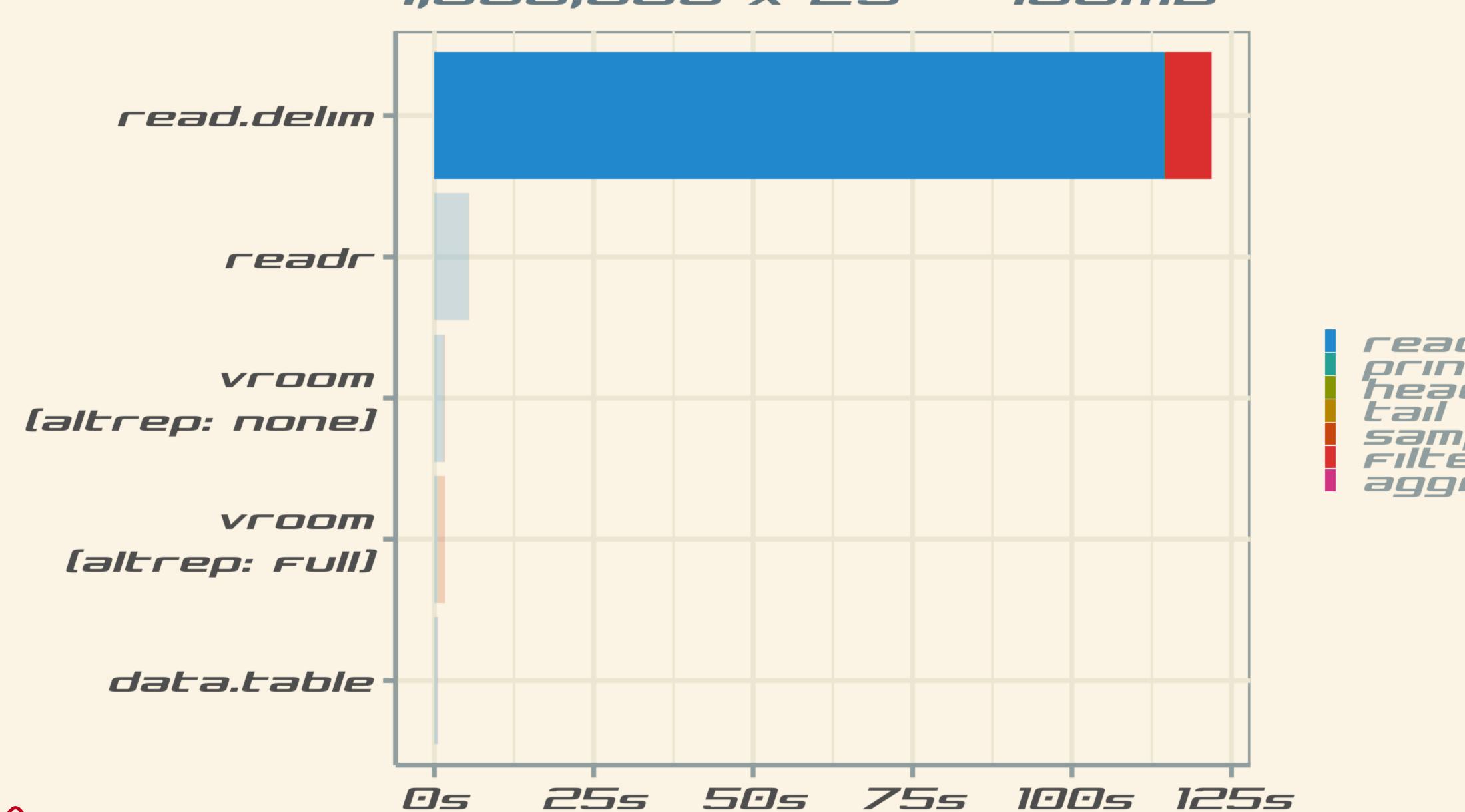
Taxi trip fare 14,776,615 x 11 - 1.55GB



read sample aggregate

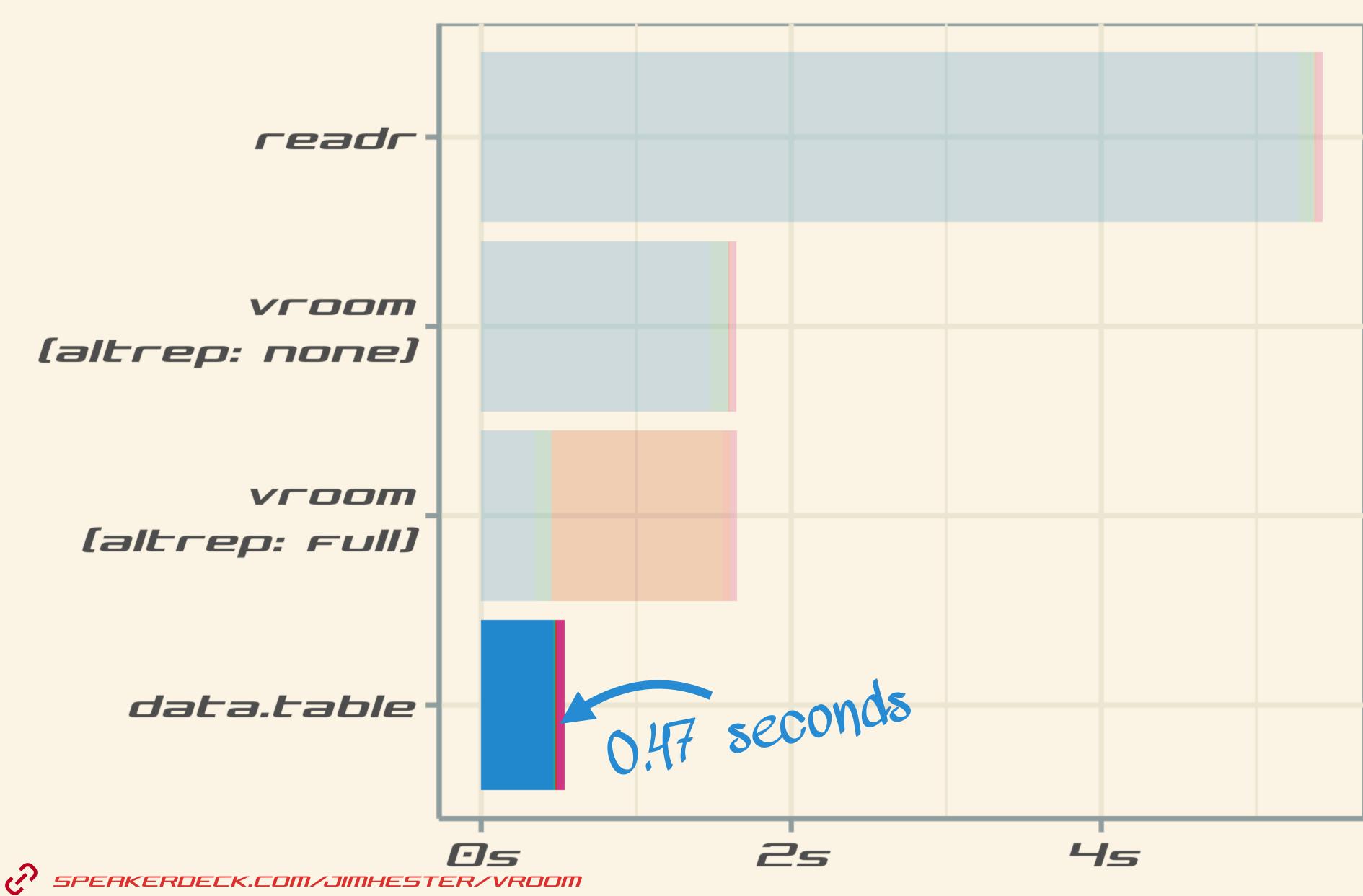
Fill GSISTEST S

All double 1,000,000 x 25 - 468MB



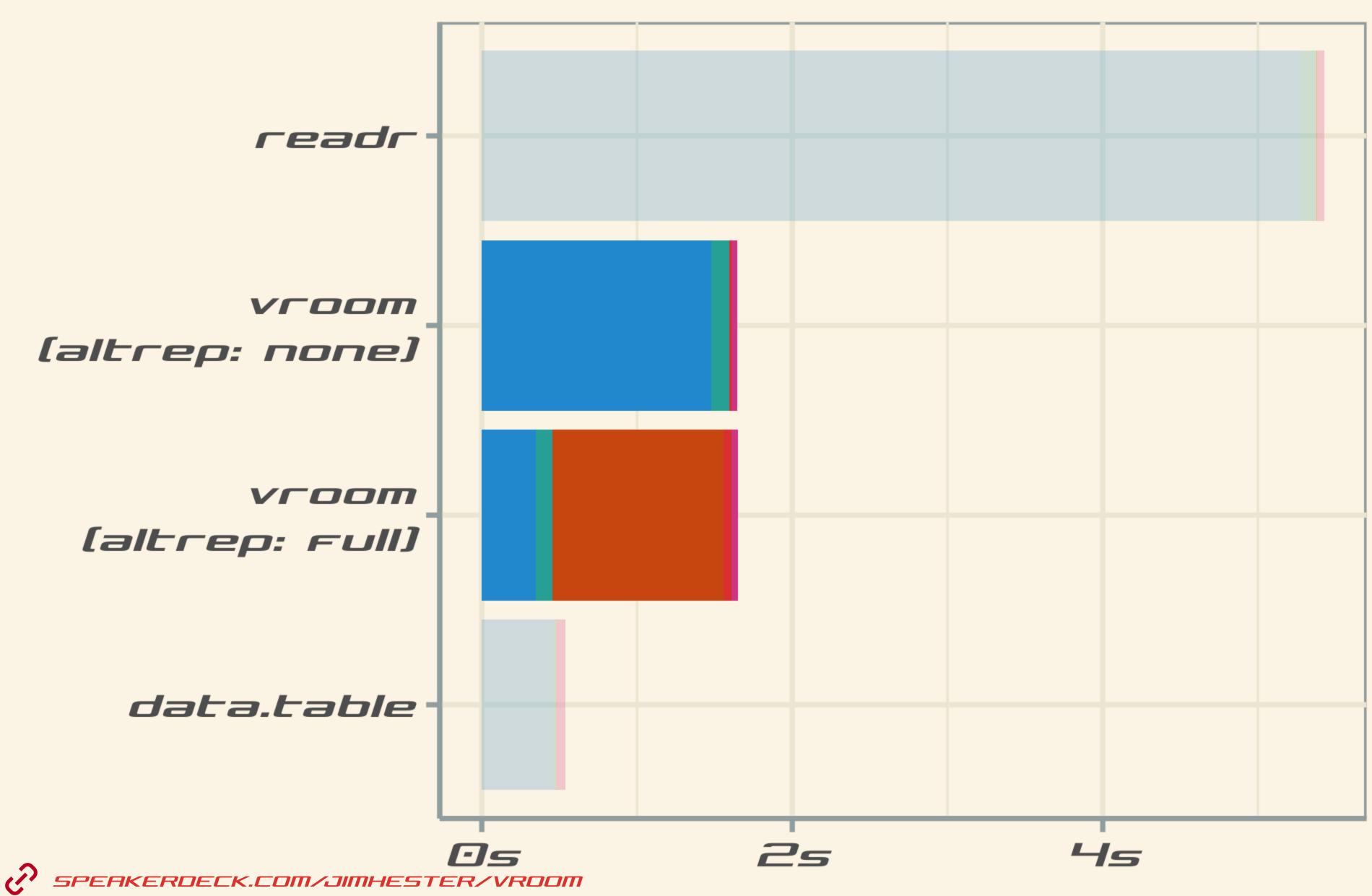


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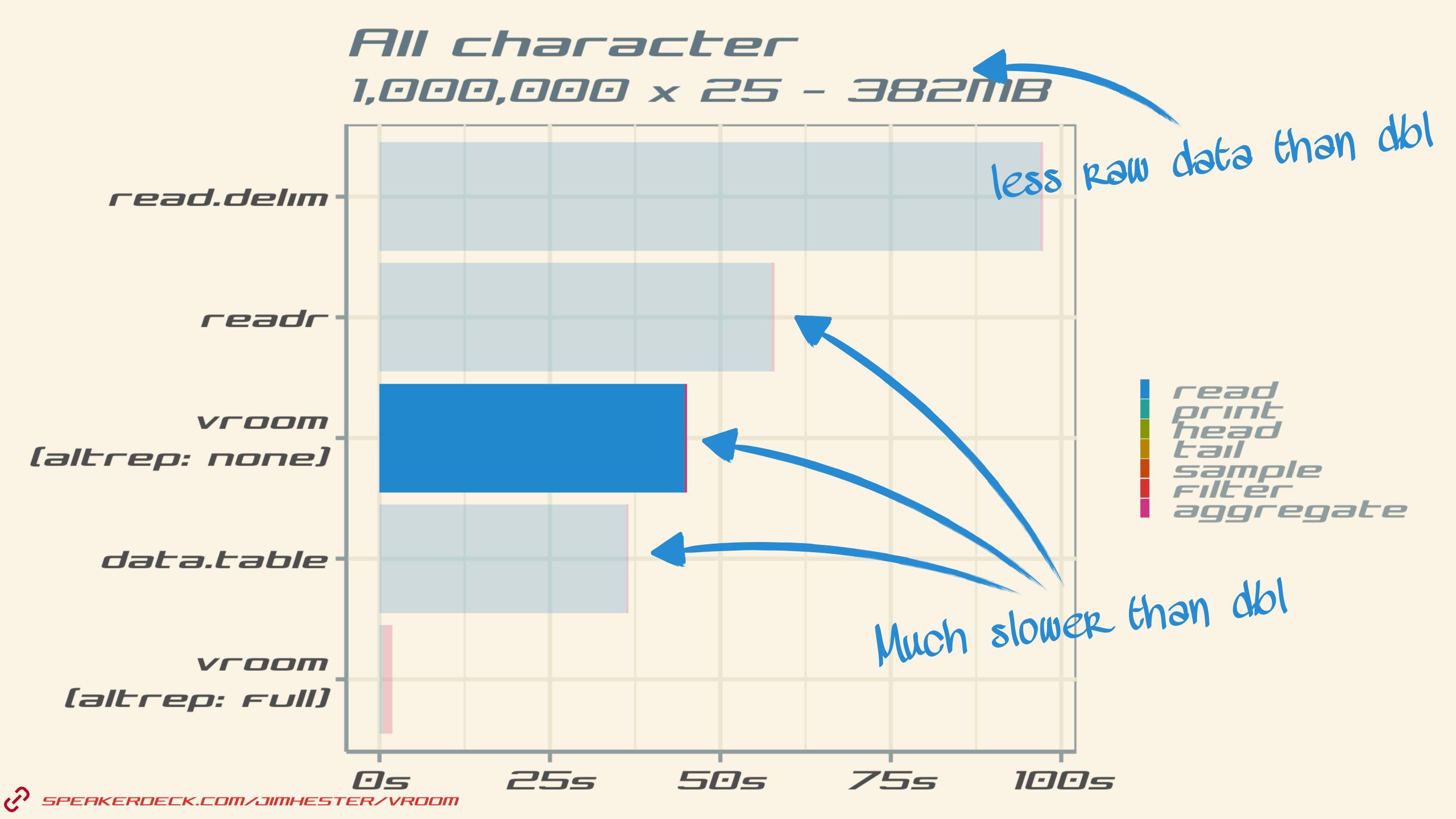


All double 1,000,000 x 25 - 468MB

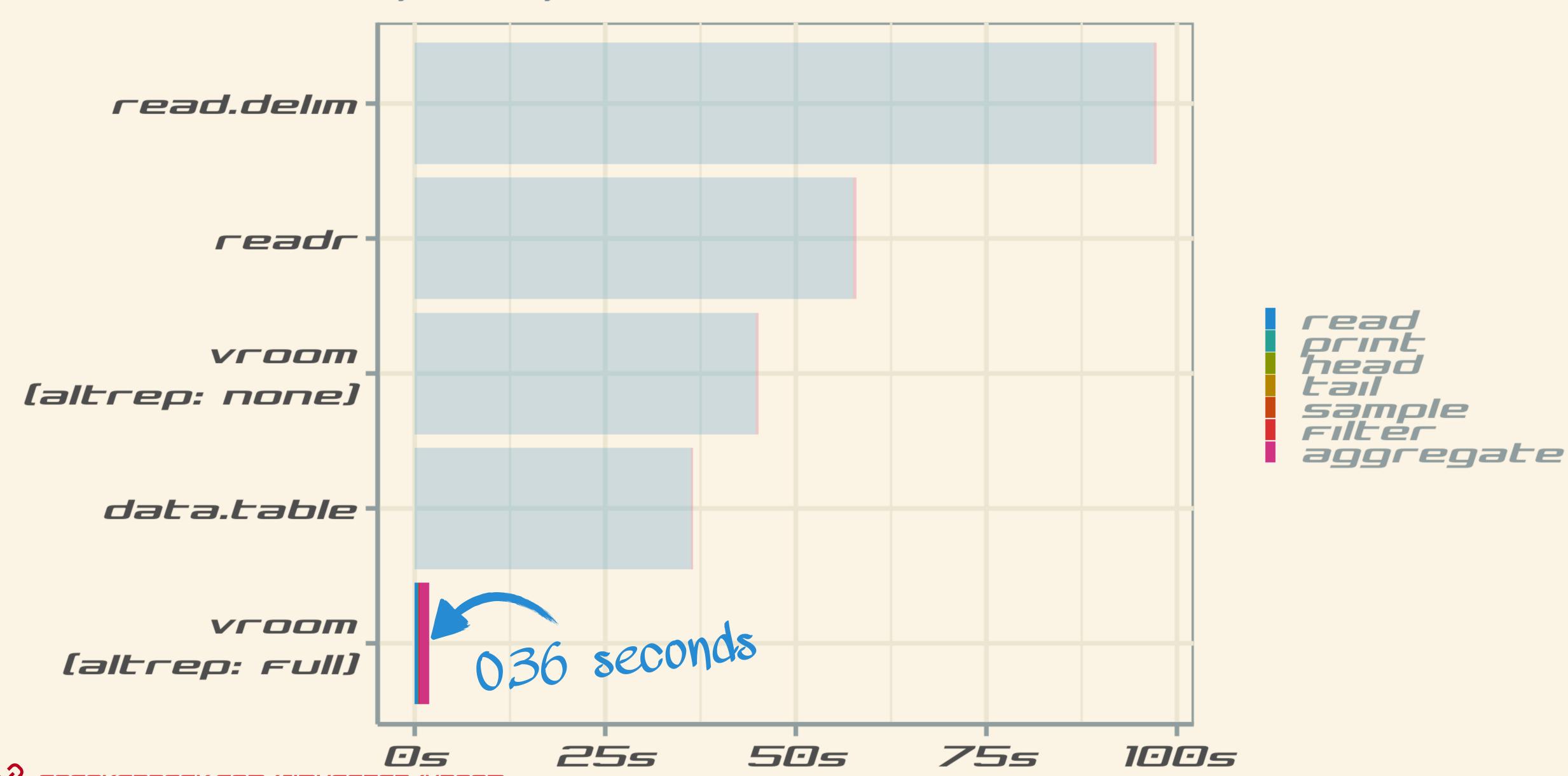


sample aggregate

FLL CHARACTERS



All character 1,000,000 x 25 - 382MB





STHER FEATINES

```
vroom("taxi.csv") %>%
  dplyr::select(medallion, pickup_datetime, ends_with("amount"))
vroom("taxi.csv",
  col select = list(medallion, pickup_datetime, ends_with("amount")))
vroom("taxi.csv", col_select = -hack license)
vroom("taxi.csv", col_select = list(taxi = medallion, everything()))
```



```
vroom("taxi.csv") %>%
  dplyr::select(medallion, pickup_datetime, ends_with("amount"))
# select
vroom("taxi.csv",
  col_select = list(medallion, pickup_datetime, ends_with("amount")))
vroom("taxi.csv", col_select = -hack license)
vroom("taxi.csv", col_select = list(taxi = medallion, everything()))
```



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vroom("taxi.csv") %>%
  dplyr::select(medallion, pickup_datetime, ends_with("amount"))
vroom("taxi.csv",
  col select = list(medallion, pickup_datetime, ends_with("amount")))
# remove
vroom("taxi.csv", col_select = -hack_license)
vroom("taxi.csv", col_select = list(taxi = medallion, everything()))
```

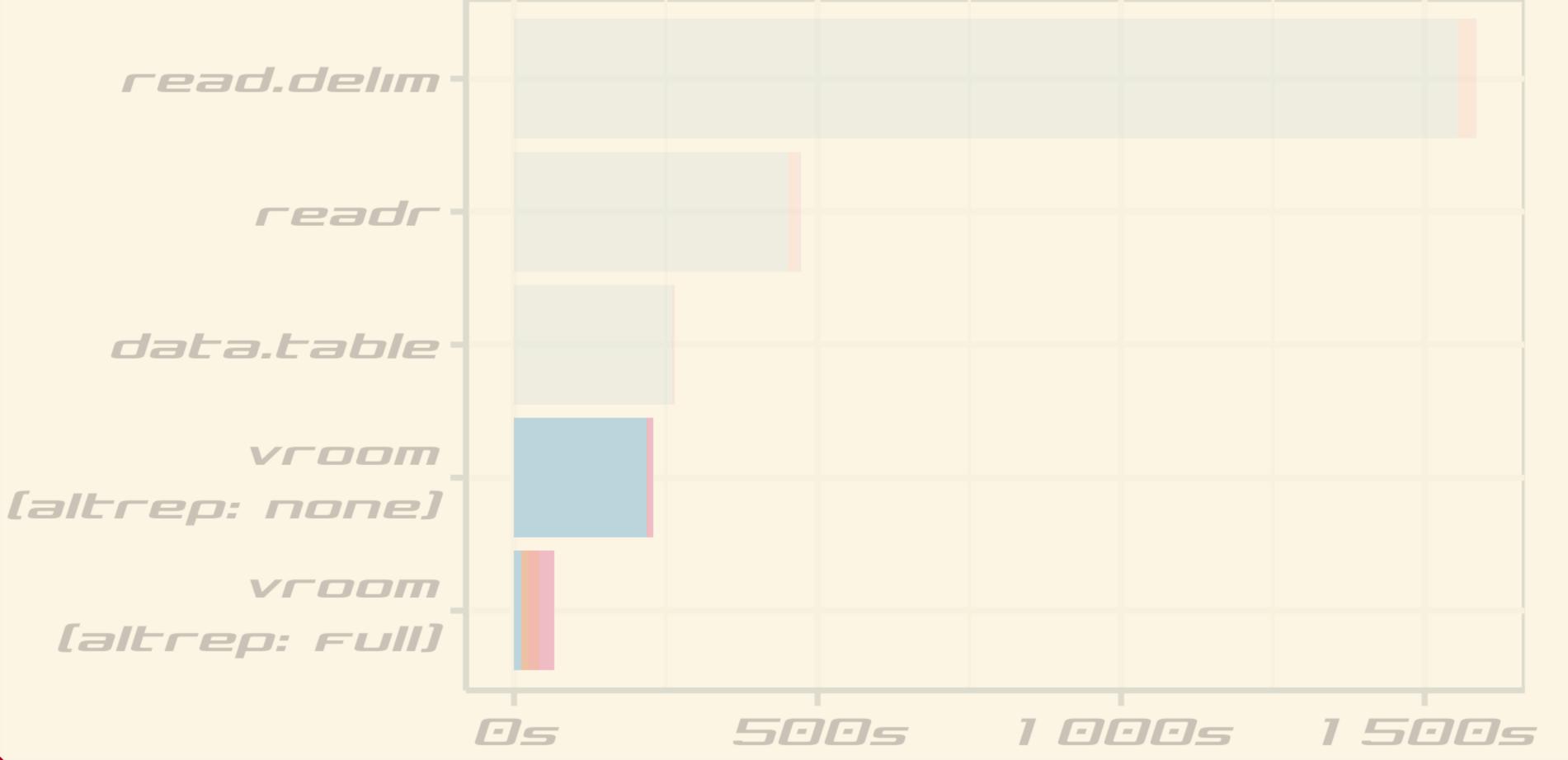


```
vroom("taxi.csv") %>%
  dplyr::select(medallion, pickup_datetime, ends_with("amount"))
vroom("taxi.csv",
  col select = list(medallion, pickup_datetime, ends_with("amount")))
vroom("taxi.csv", col_select = -hack license)
# rename
vroom("taxi.csv", col_select = list(taxi = medallion, everything()))
```



vroom(c("taxi_1.csv", "taxi_2.csv"), id = "path")

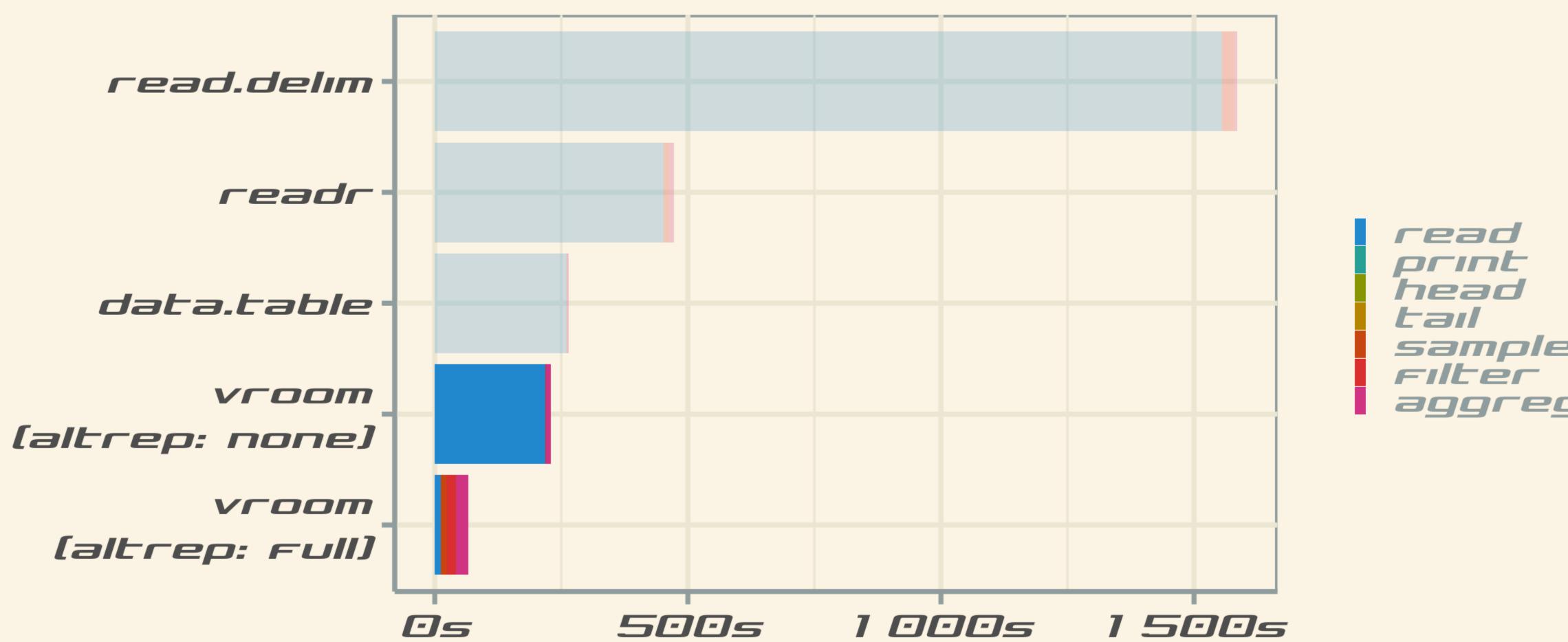
Taxi trip fare [12 1.56b files] 173,179,759 x 12 - 18.4GB



read Lail sample FILTER aggregate

vroom(c("taxi_1.csv", "taxi_2.csv"), id = "path")

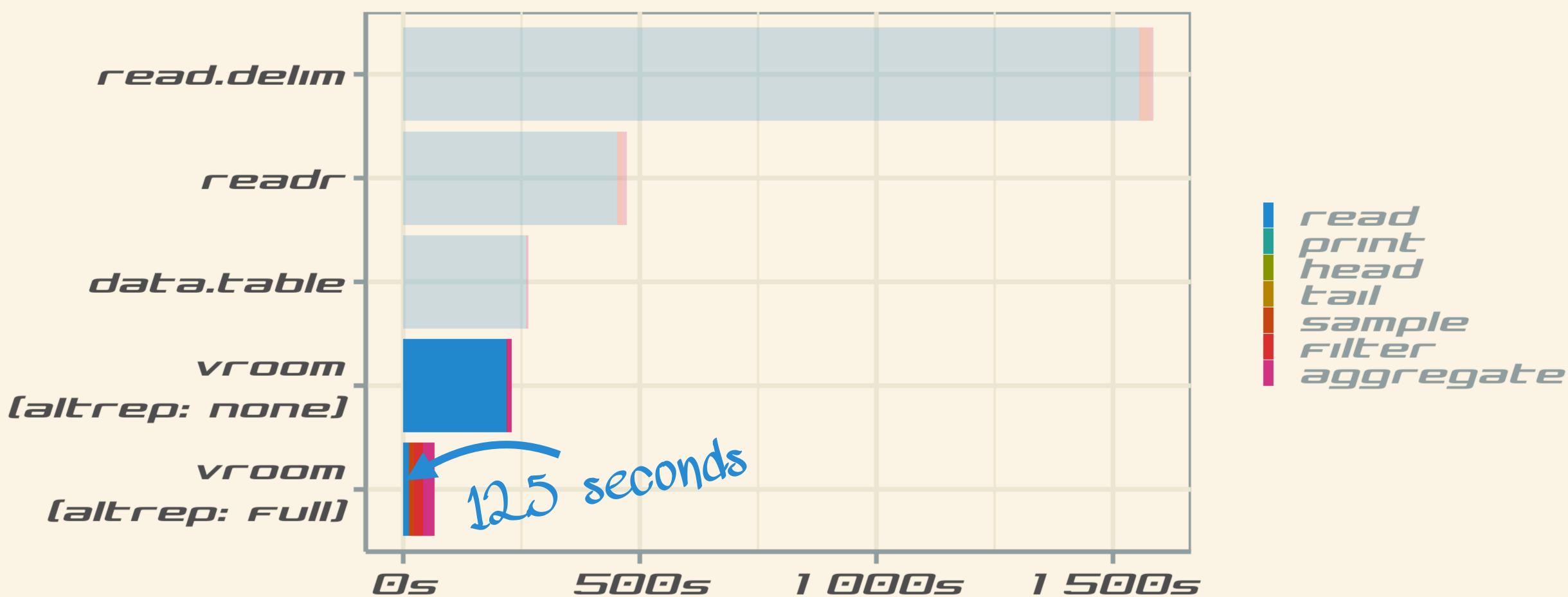
Taxi trip fare [12 1.56b files] 173,179,759 x 12 - 18.4GB



sample aggregate

vroom(c("taxi_1.csv", "taxi_2.csv"), id = "path")

Taxi trip fare [12 1.56b files] 173,179,759 x 12 - 18.4GB





```
vroom_fwf(altrep = TRUE)
                               740 ms
vroom_fwf(altrep = FALSE)
                              10.1sec
readr::read_fwf()
                              24.3sec
read.fwf()
                              17.8min
```

480,174 x 156 - 1.05 Gb file



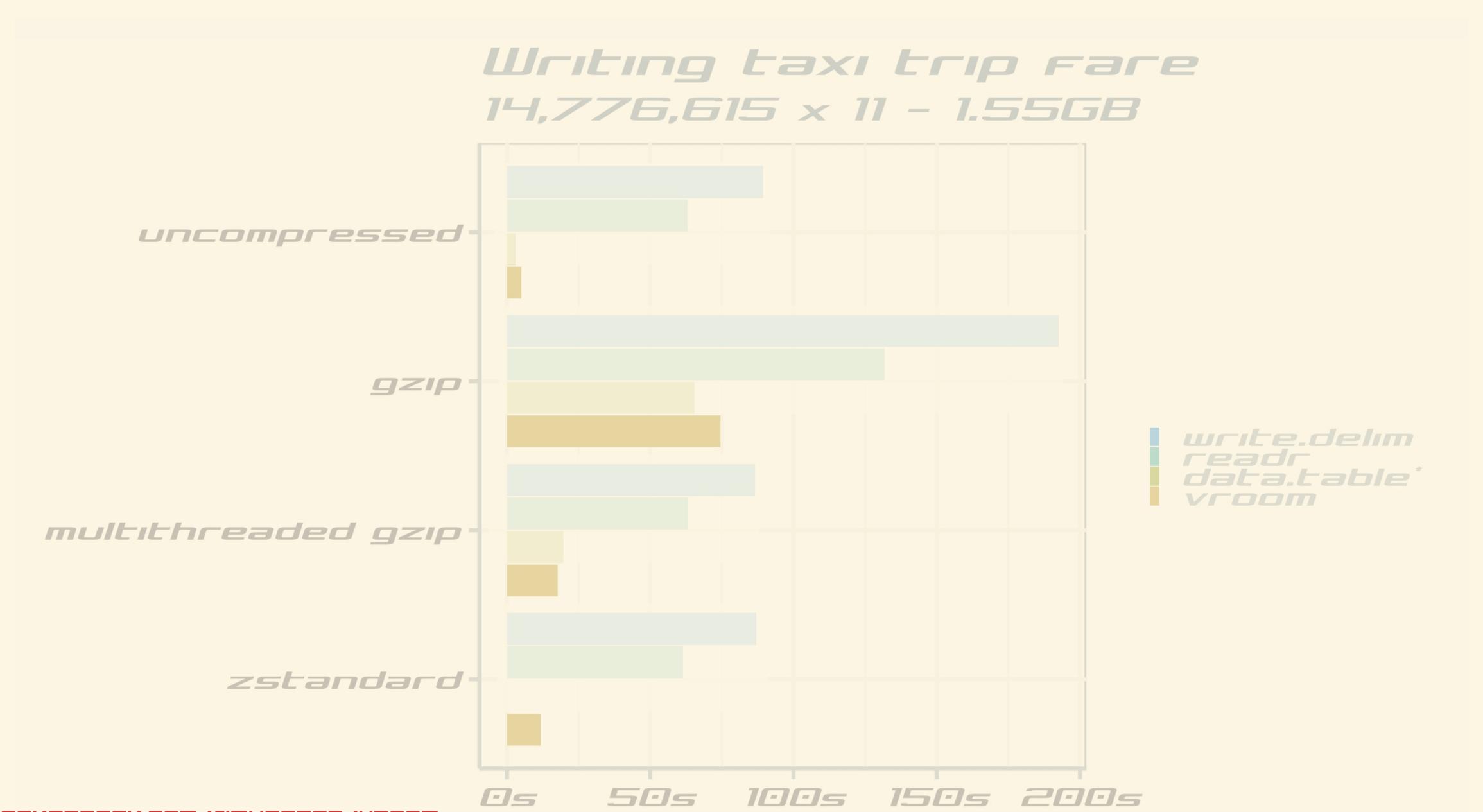
```
length(vroom_lines(file))
                                                   501 ms
length(data.table::fread(file, sep = "\n",
                         header = FALSE)[1])
                                                  9.19sec
length(readr::read_lines(file))
                                                 11.82sec
length(readLines(file))
                                                 20.72sec
```

14,775,616 lines - 1.55 Gb File





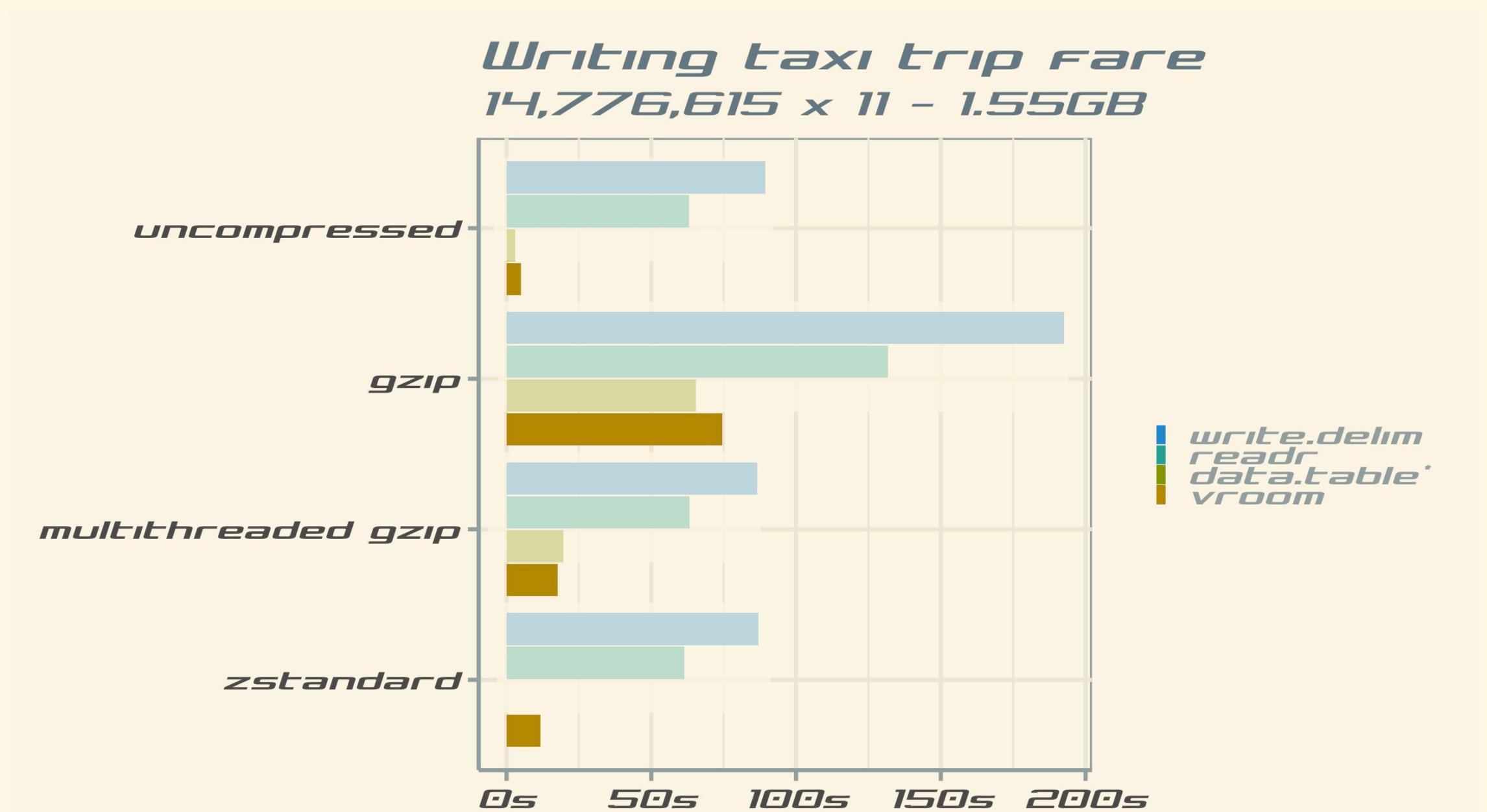
vroom_write(df, "taxi.tsv.gz", delim = "\t")







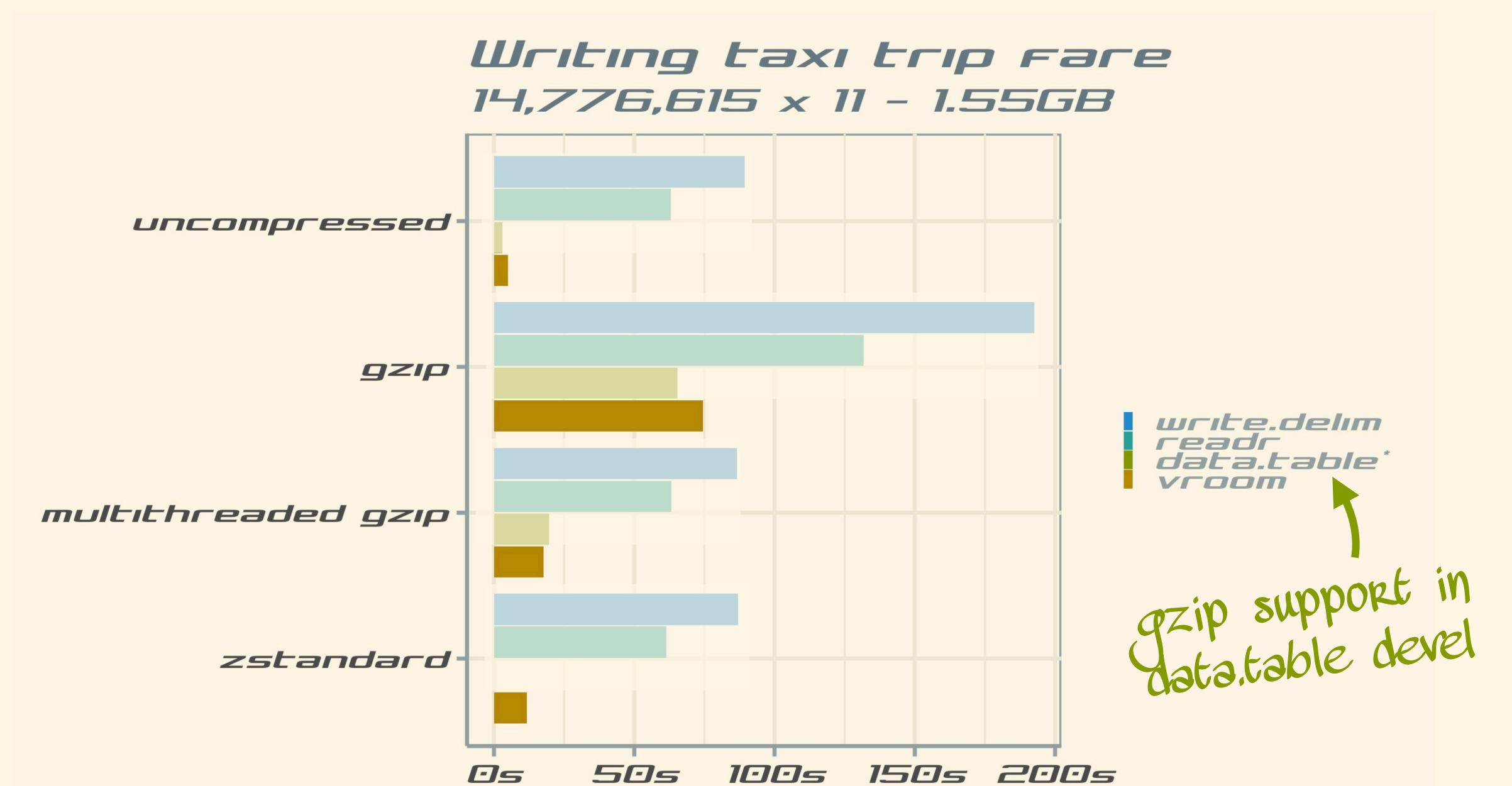
vroom_write(df, "taxi.tsv.gz", delim = "\t")







vroom_write(df, "taxi.tsv.gz", delim = "\t")













🦫 github.com/r-lib/vroom/issues



