

# ExperientCode

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2/7/2022

```
library(tidycode)
library(matahari)
library(tidyverse)

## -- Attaching packages ----- tidyverse 1.3.1 --

## v ggplot2 3.3.5      v purrr 0.3.4
## v tibble 3.1.4       v dplyr 1.0.7
## v tidyr 1.1.3        v stringr 1.4.0
## v readr 2.1.2        v forcats 0.5.1

## Warning: package 'readr' was built under R version 4.1.2

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()

# read from txt file
projectFile <- readr::read_lines(
  "/Users/qihanzhao/Desktop/IndependentStudyMaterial/team1Copy.txt",
  progress=show_progress()
)

#read from R file
# the read_rfiles does not understanding anything except R code (so any code)
# annotation will raise an error
df <- read_rfiles("/Users/qihanzhao/Desktop/IndependentStudyMaterial/team-1.R")
df

## # A tibble: 36 x 3
##   file                                expr      line
##   <chr>                                <list>   <int>
## 1 /Users/qihanzhao/Desktop/IndependentStudyMaterial/team-1.R <language>    1
## 2 /Users/qihanzhao/Desktop/IndependentStudyMaterial/team-1.R <language>    2
## 3 /Users/qihanzhao/Desktop/IndependentStudyMaterial/team-1.R <language>    3
## 4 /Users/qihanzhao/Desktop/IndependentStudyMaterial/team-1.R <language>    4
## 5 /Users/qihanzhao/Desktop/IndependentStudyMaterial/team-1.R <language>    5
## 6 /Users/qihanzhao/Desktop/IndependentStudyMaterial/team-1.R <language>    6
## 7 /Users/qihanzhao/Desktop/IndependentStudyMaterial/team-1.R <language>    7
## 8 /Users/qihanzhao/Desktop/IndependentStudyMaterial/team-1.R <language>    8
## 9 /Users/qihanzhao/Desktop/IndependentStudyMaterial/team-1.R <language>    9
## 10 /Users/qihanzhao/Desktop/IndependentStudyMaterial/team-1.R <language>   10
## # ... with 26 more rows
```

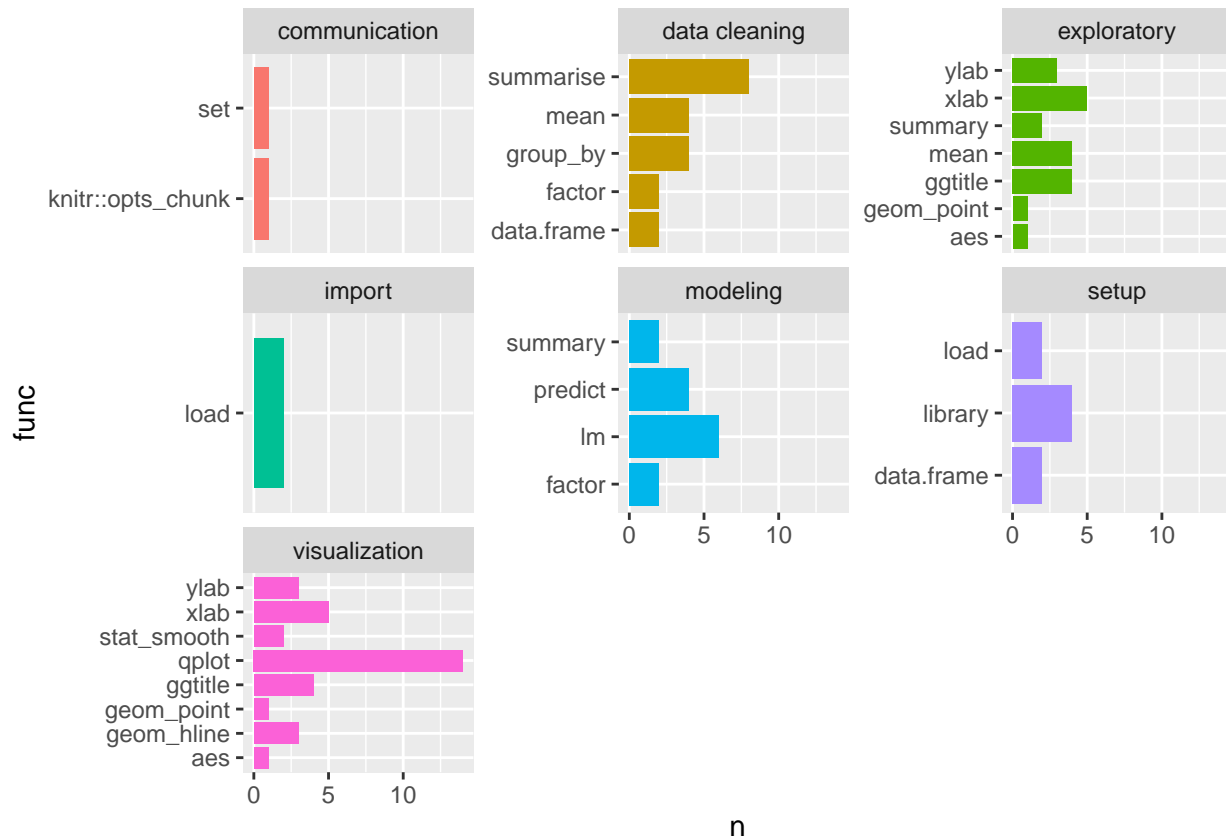
```
View(df)
```

```
functions<- unnest_calls(df, expr)
```

```
functions%>%
  anti_join(get_stopfuncs())%>%
  inner_join(get_classifications(include_duplicates = FALSE))%>%
  count(func, classification, sort=TRUE)%>%
  ungroup()%>%
  ggplot(aes(func, n, fill=classification))+
  geom_col(show.legend=FALSE)+
  facet_wrap(~classification, scales="free_y")+
  coord_flip()
```

```
## Joining, by = "func"
```

```
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```



```
#to merge in only the most prevalent classification set include_duplicates = FALSE
#in get_classifications
```

```
## use anti_join(get_stopfuncs()), where you passed in functions to ignore
## such as the <- operator
```