ExperientCode

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```r
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()
```

```r
# 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
```
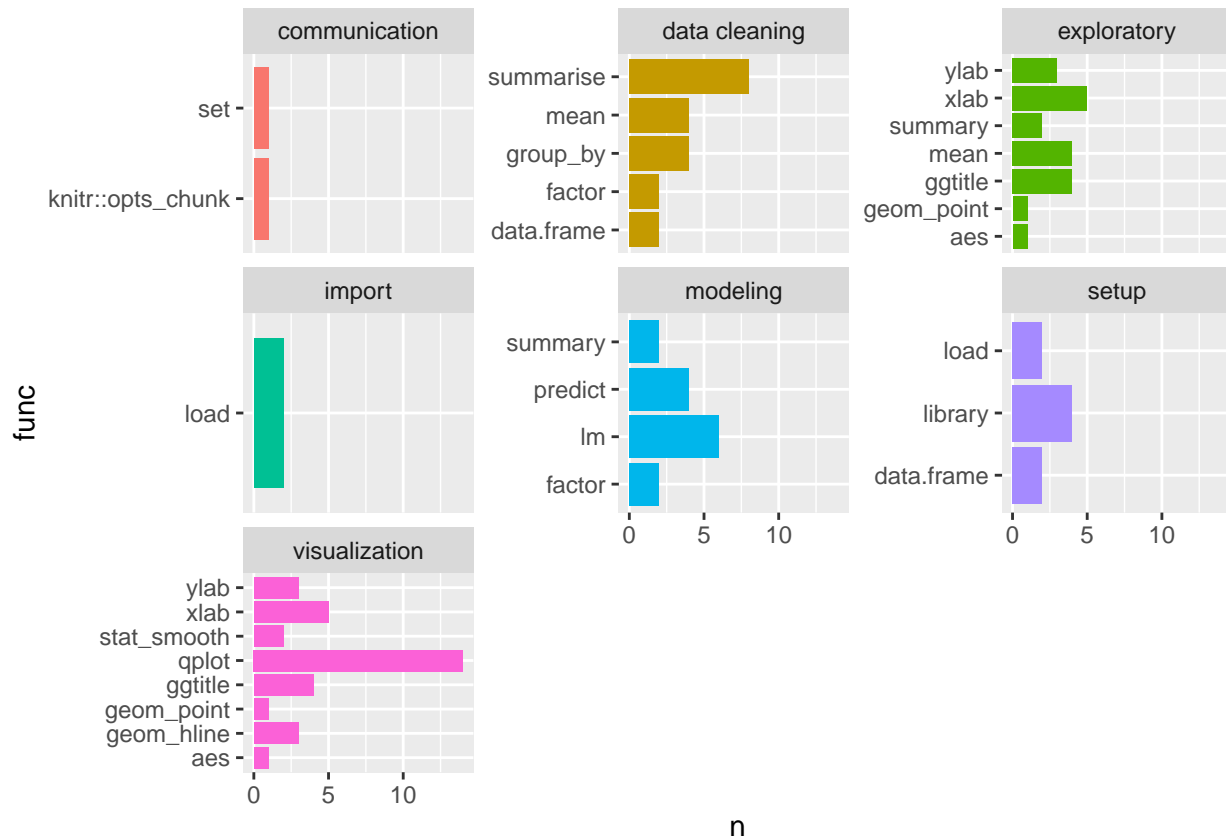
```
View(df)

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
```