```
library(data.table)
library(magrittr)
library(tidyverse)

## -- Attaching packages ------ tidyverse 1.3.1 --
## v ggplot2 3.3.5 v purrr 0.3.4
```

1.0.8

v forcats 0.5.1

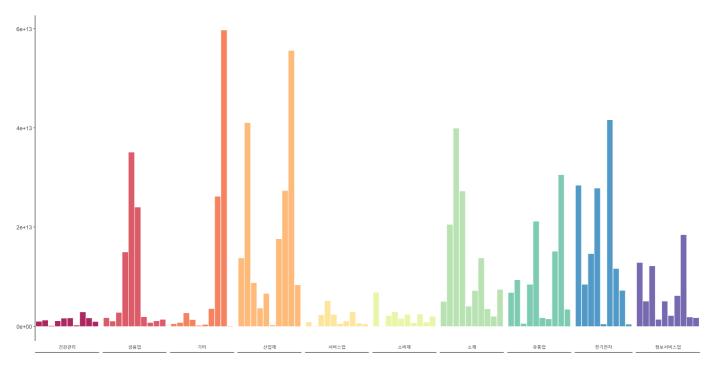
## v tibble 3.1.6 v dplyr

## v readr 2.1.2

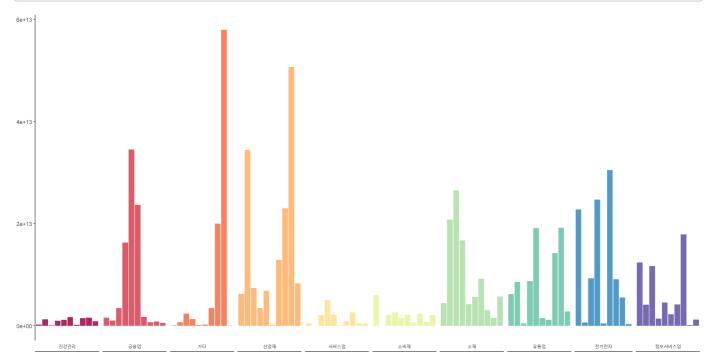
## v tidyr 1.2.0 v stringr 1.4.0

https://stackoverflow.com/questions/38101512/the-same-width-of-the-bars-in-geom-barposition-dodge (https://stackoverflow.com/questions/38101512/the-same-width-of-the-bars-in-geom-barposition-dodge)

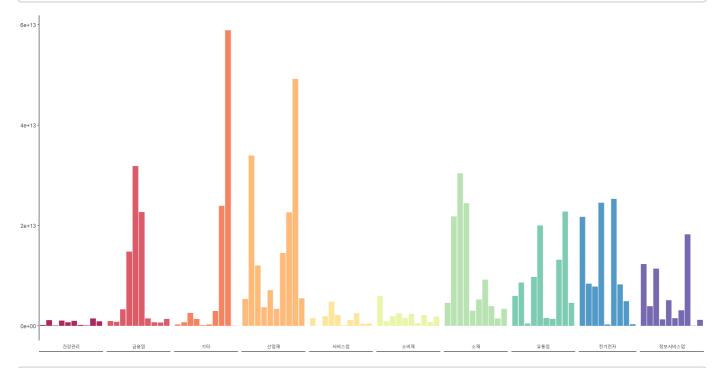
```
data %>% filter(회사명!='삼성전자') %>%
ggplot(aes(x = 회사명, y = `2021매출액`, fill = 대분류)) +
geom_col(position = "dodge",alpha=0.85) +
facet_grid(~대분류, scales = "free_x", space = "free_x", switch = "x") +
scale_fill_brewer(palette="Spectral")+
theme_classic()+
theme(legend.position='none',
    axis.text.x = element_blank(),
    axis.ticks.x = element_blank(),
    axis.title.x=element_blank(),
    axis.title.y=element_blank(),
    strip.background = element_blank())
```



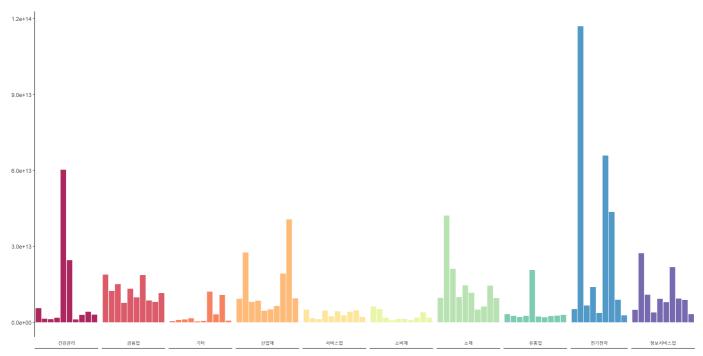
```
data %>% filter(회사명!='삼성전자') %>%
    ggplot(aes(x = 회사명, y = `2020매출액`, fill = 대분류)) +
    geom_col(position = "dodge",alpha=0.85) +
    facet_grid(~대분류, scales = "free_x", space = "free_x", switch = "x") +
    scale_fill_brewer(palette="Spectral")+
    theme_classic()+
    theme(legend.position='none',
        axis.text.x = element_blank(),
        axis.ticks.x = element_blank(),
        axis.title.x=element_blank(),
        axis.title.y=element_blank(),
        strip.background = element_blank())
```



```
data %>% filter(회사명!='삼성전자') %>%
    ggplot(aes(x = 회사명, y = `2019매출액`, fill = 대분류)) +
    geom_col(position = "dodge",alpha=0.85) +
    facet_grid(~대분류, scales = "free_x", space = "free_x", switch = "x") +
    scale_fill_brewer(palette="Spectral")+
    theme_classic()+
    theme(legend.position='none',
        axis.text.x = element_blank(),
        axis.ticks.x = element_blank(),
        axis.title.x=element_blank(),
        axis.title.y=element_blank(),
        strip.background = element_blank())
```

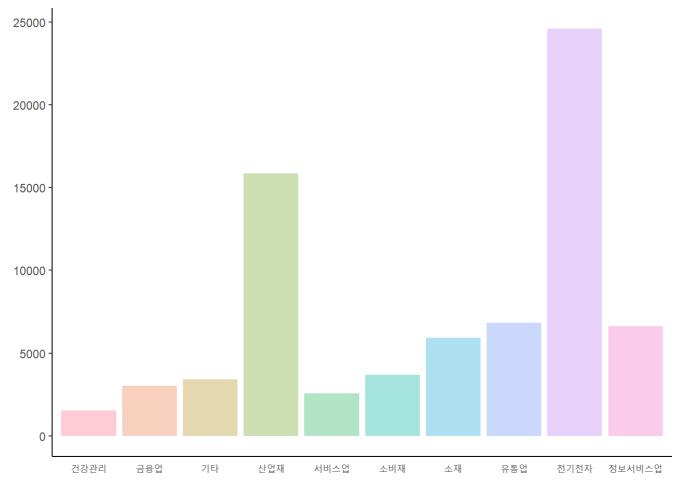


```
data %>% filter(회사명!='삼성전자') %>%
    ggplot(aes(x = 회사명, y = 시가총액, fill = 대분류)) +
    geom_col(position = "dodge",alpha=0.85) +
    facet_grid(~대분류, scales = "free_x", space = "free_x", switch = "x") +
    scale_fill_brewer(palette="Spectral")+
    theme_classic()+
    theme(legend.position='none',
        axis.text.x = element_blank(),
        axis.ticks.x = element_blank(),
        axis.title.x=element_blank(),
        axis.title.y=element_blank(),
        strip.background = element_blank())
```



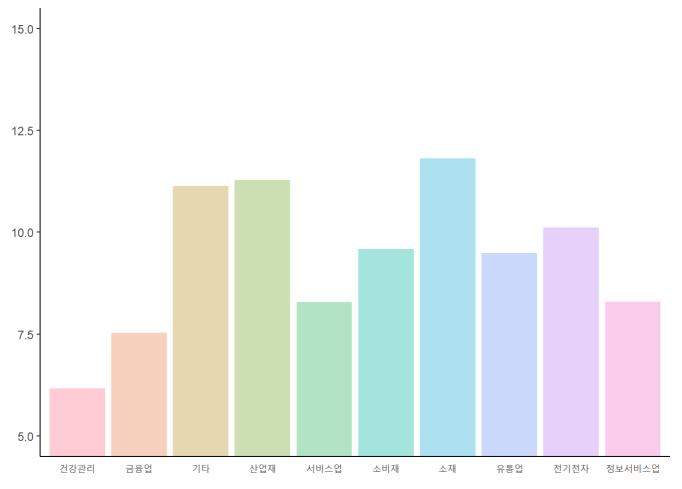
```
col <- hcl.colors(10, palette ="Pastel1")

data %>% group_by(대분류) %>% summarise(avg=mean(총직원수)) %>%
    ggplot(aes(x = 대분류, y =avg, fill = 대분류)) +
    geom_col(position = "dodge",alpha=0.9) +
    scale_fill_manual(values=col)+
    theme_classic()+
    theme(legend.position='none',
        axis.ticks.x = element_blank(),
        axis.title.x=element_blank(),
        axis.title.y=element_blank())
    strip.background = element_blank())
```



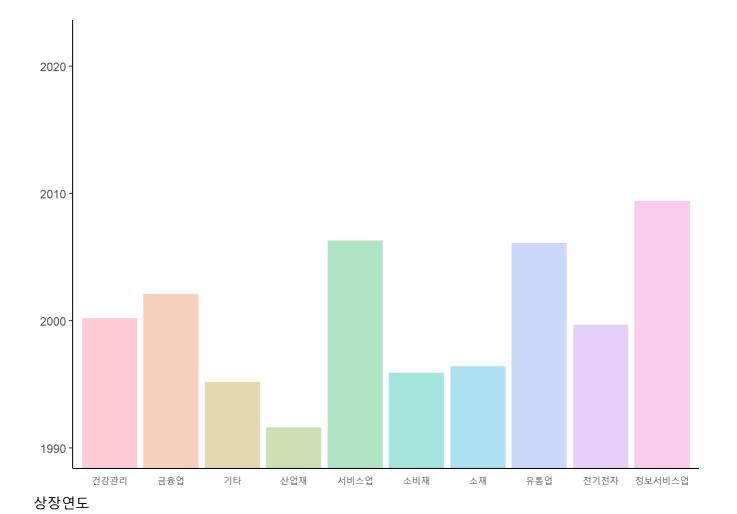
```
col <- hcl.colors(10, palette ="Pastel1")

data %>% group_by(대분류) %>% summarise(avg=mean(평균근속연수)) %>%
    ggplot(aes(x = 대분류, y =avg, fill = 대분류)) +
    geom_col(position = "dodge",alpha=0.9) +
    scale_fill_manual(values=col)+
    theme_classic()+
    theme(legend.position='none',
        axis.ticks.x = element_blank(),
        axis.title.x=element_blank(),
        axis.title.y=element_blank(),
        strip.background = element_blank())+
    coord_cartesian(ylim=c(5,15))
```



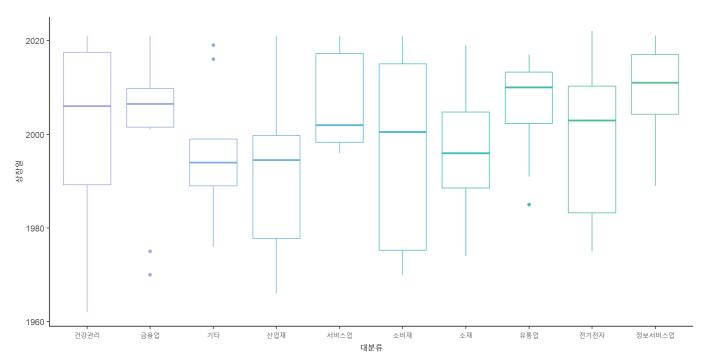
```
col <- hcl.colors(10, palette ="Pastel1")

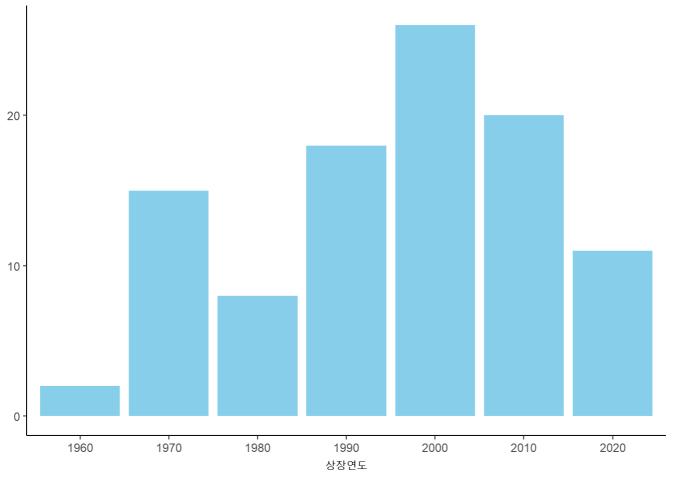
data %>% group_by(대분류) %>% summarise(avg=mean(상장일)) %>%
    ggplot(aes(x = 대분류, y =avg, fill = 대분류)) +
    geom_col(position = "dodge",alpha=0.9) +
    scale_fill_manual(values=col)+
    theme_classic()+
    theme(legend.position='none',
        axis.ticks.x = element_blank(),
        axis.title.x=element_blank(),
        axis.title.y=element_blank(),
        strip.background = element_blank())+
    coord_cartesian(ylim=c(1990,2022))
```



data %<>% mutate('상장연도'=상장일-상장일%%10) %>% mutate\_at(vars(상장연도),as.factor)

```
col <- hcl.colors(10, palette ="Cold")
data %>% ggplot(aes(대분류,상장일,color=대분류))+
geom_boxplot()+
theme_classic()+
scale_color_manual(values = col)+
theme(legend.position='none')
```





```
col <- hcl.colors(10, palette ="Cold")

data %>% group_by(대분류) %>% summarise(sum=sum(제목)) %>%

ggplot(aes(x = reorder(대분류,-sum), y =sum, fill = reorder(대분류,-sum))) +

geom_col(position = "dodge") +

scale_fill_manual(values=col)+

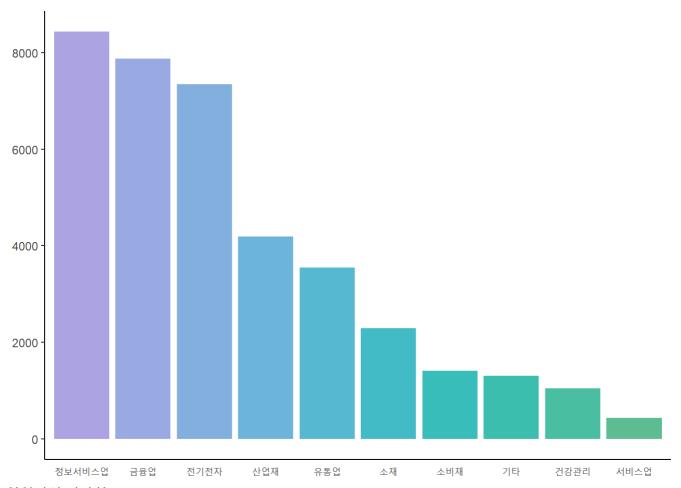
theme_classic()+

theme(legend.position='none',

axis.ticks.x = element_blank(),

axis.title.x=element_blank(),

strip.background = element_blank())
```



## 영업이익 시각화

