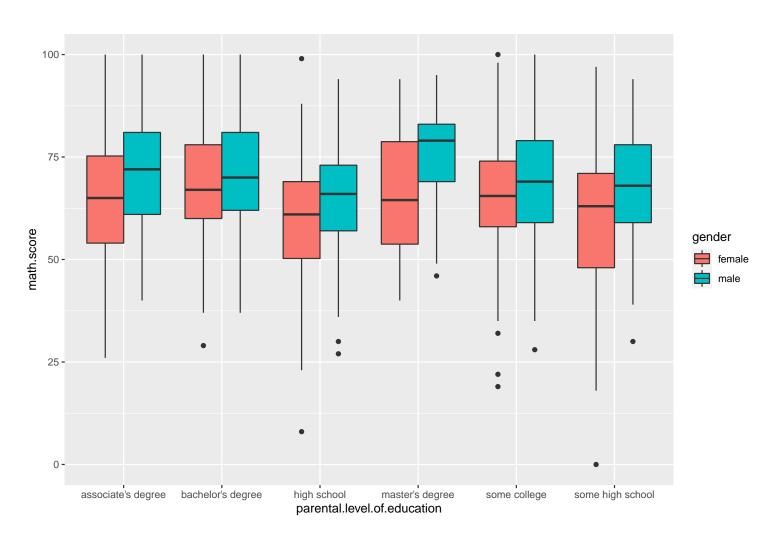
## Student performance

## 薛貴林

```
> setwd("D:/R/R-exercise/student_performance")
> data <- read.csv("StudentsPerformance.csv")</pre>
> library(tidyverse)
> library(kableExtra)
> knitr::kable(head(data), format = "latex", booktabs = TRUE) %>% kable_styling(latex_options = "scale_down to be a continuous properties of the continuous prope
```

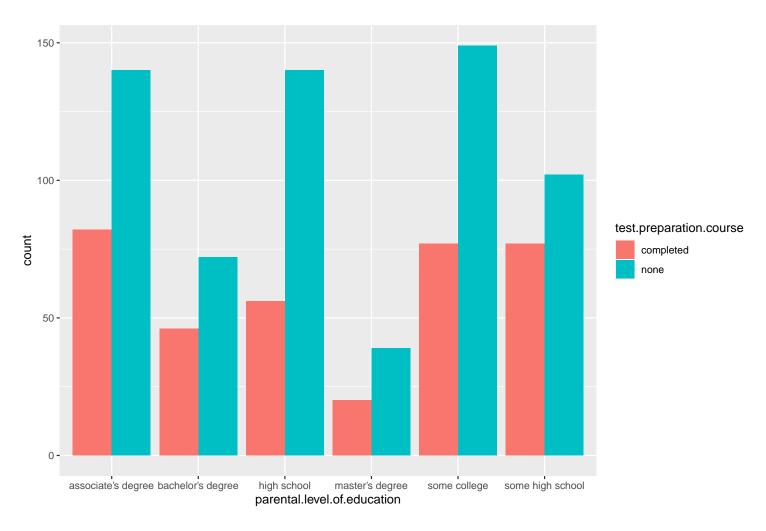
gender	race.ethnicity	parental.level.of.education	lunch	test.preparation.course	math.score	reading.score	writing.score
female	group B	bachelor's degree	standard	none	72	72	74
female	group C	some college	standard	completed	69	90	88
female	group B	master's degree	standard	none	90	95	93
male	group A	associate's degree	free/reduced	none	47	57	44
male	group C	some college	standard	none	76	78	75
female	group B	associate's degree	standard	none	71	83	78

```
> # 分布情况 父母教育水平性别和数学分数
> ggplot(data, aes(x = parental.level.of.education, y = math.score, fill = gender)) +
     geom_boxplot(position = "dodge") # position =dodge是用于分组绘图的
```

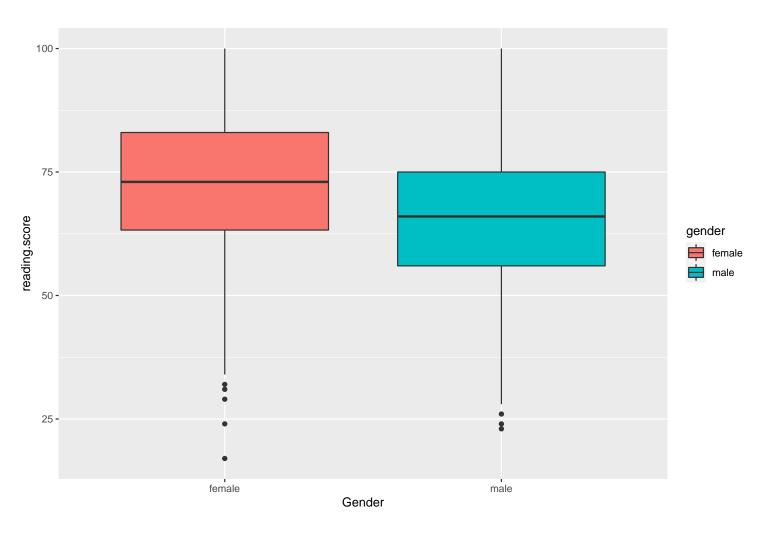


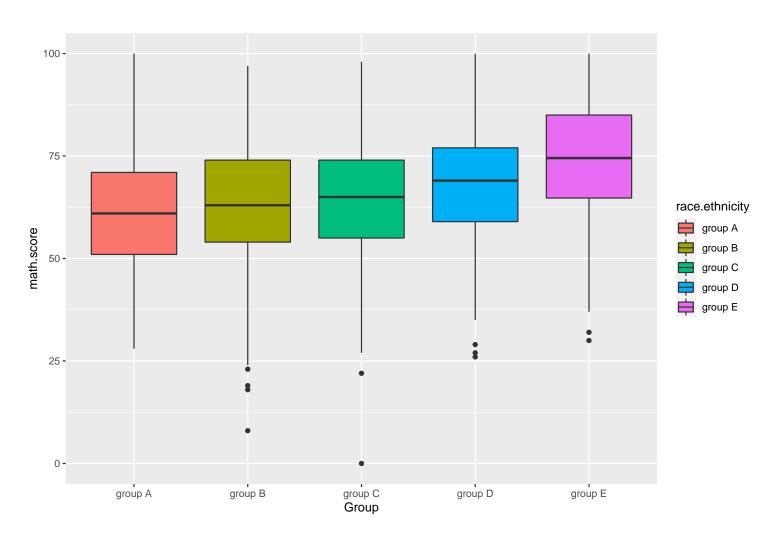
## >#父母教育水平和成绩通过

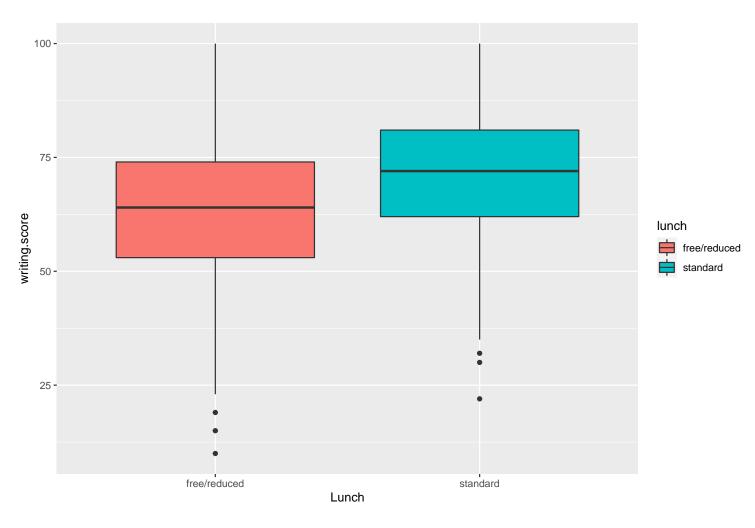
- > ggplot(data, aes(x = parental.level.of.education, fill = test.preparation.course)) +
- + geom\_bar(position = "dodge")



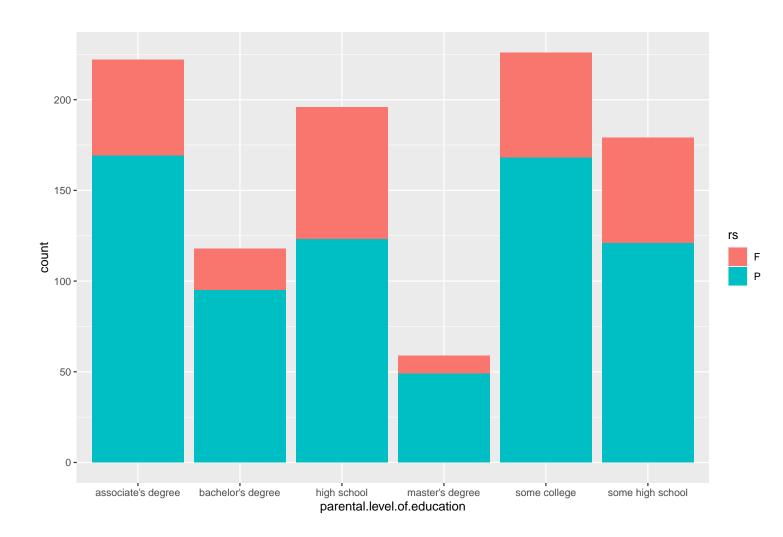
-



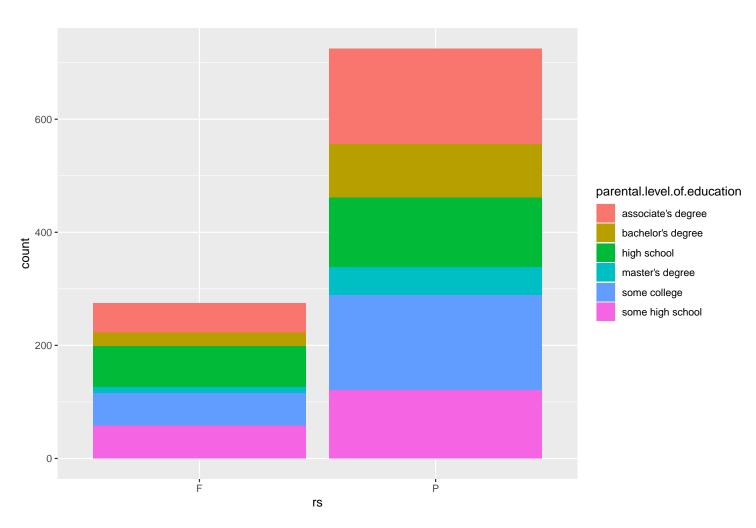




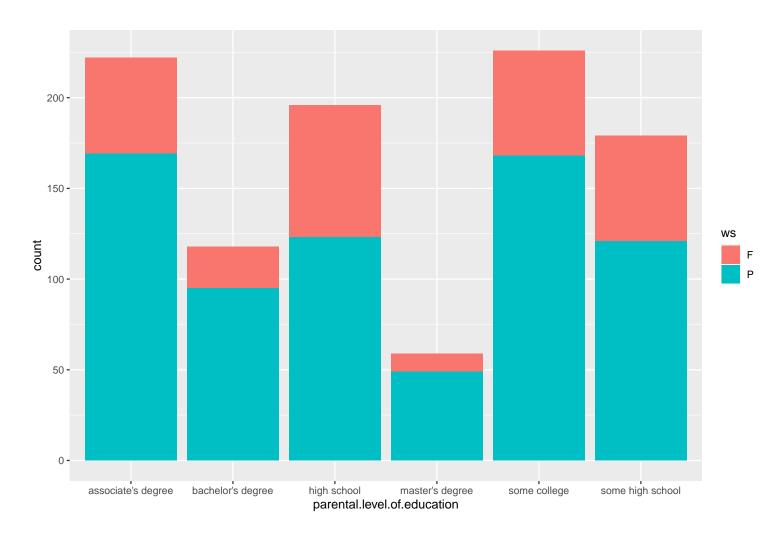
```
> # 父母教育水平和阅读成绩是否合格
> rs <- ifelse(data$reading.score > 60, "P", "F")
> data$rs <- rs
> ggplot(data, aes(x = parental.level.of.education, fill = rs)) + geom_bar()
```



```
> ggplot(data, aes(x = rs, fill = parental.level.of.education)) + geom_bar()
```



```
> # 父母教育水平和写作成绩是否合格
> ws <- ifelse(data$reading.score > 60, "P", "F")
> data$ws <- ws
> ggplot(data, aes(x = parental.level.of.education, fill = ws)) + geom_bar()
```



```
> ggplot(data, aes(x = ws, fill = parental.level.of.education)) + geom_bar()
```

