

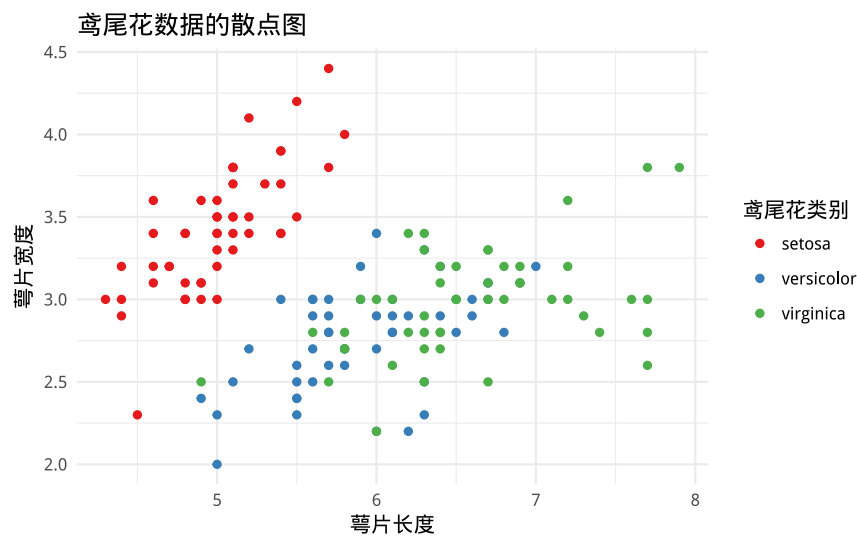
图形高级定制

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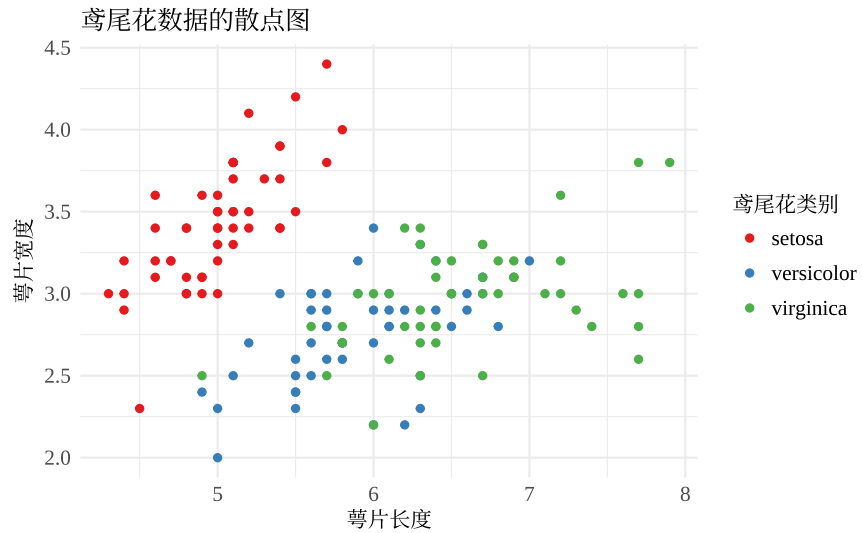
1 字体

1.1 中文

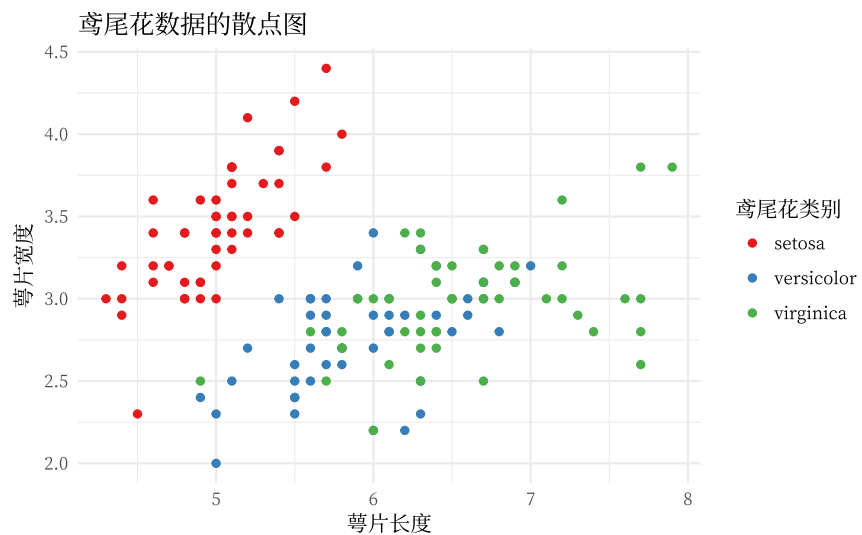


图形里的字体，以矿大学位论文的要求为例，

1. 字体宋体，五号
2. 数字、字母字体都是 Times New Roman
3. 5 号字体对应 10.54pt，宋体此处采用思源宋体



- 简单起见，字体为思源宋体，字号 5 号，英文和数字随思源宋体，不再另外设置，其实看不出来差别



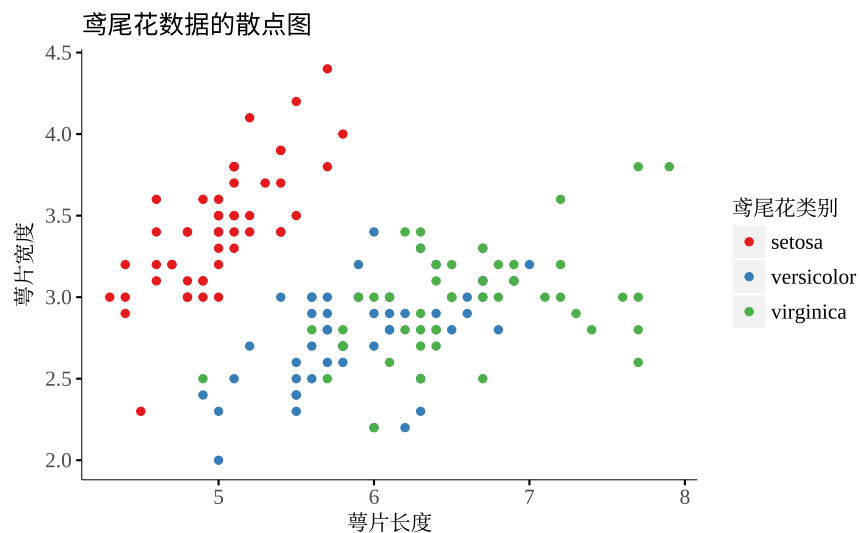
- 自定义中文字体
 1. 标题：思源宋体加粗
 2. 坐标轴标签：思源宋体
 3. 图例：思源黑体

```
# library(showtext)
# Install Source Han Sans font (by default Simplified Chinese)
# font_install(source_han_serif("CN")) # 思源宋体
# font_install(source_han_sans("CN")) # 思源黑体
ggplot(iris, aes(Sepal.Length, Sepal.Width)) +
  geom_point(aes(colour = Species)) +
```

```

scale_colour_brewer(palette = "Set1") +
labs(
  title = " 鸢尾花数据的散点图",
  x = " 萼片长度", y = " 萼片宽度", colour = " 鸢尾花类别"
) +
theme(
  title = element_text(family = "source-han-sans-cn", face = "plain", size = 10.54),
  axis.title = element_text(family = "source-han-serif-cn", face = "plain", size = 10.54),
  legend.title = element_text(family = "source-han-serif-cn", face = "plain", size = 10.54),
  axis.ticks = element_line(colour = "black"),
  legend.text = element_text(family = "serif", size = 10.54),
  axis.text = element_text(family = "serif", size = 10.54),
  panel.grid.major = element_blank(),
  panel.grid.minor = element_blank(),
  panel.background = element_blank(),
  axis.line = element_line(size = 0.2)
)

```



1.2 英文

```

op <- par(family = "serif", mar = c(4,4,.5,.5))
plot(pressure)
par(op)

```

pdf 设备可用字体

```
#> [1] "serif" "sans" "mono"
```

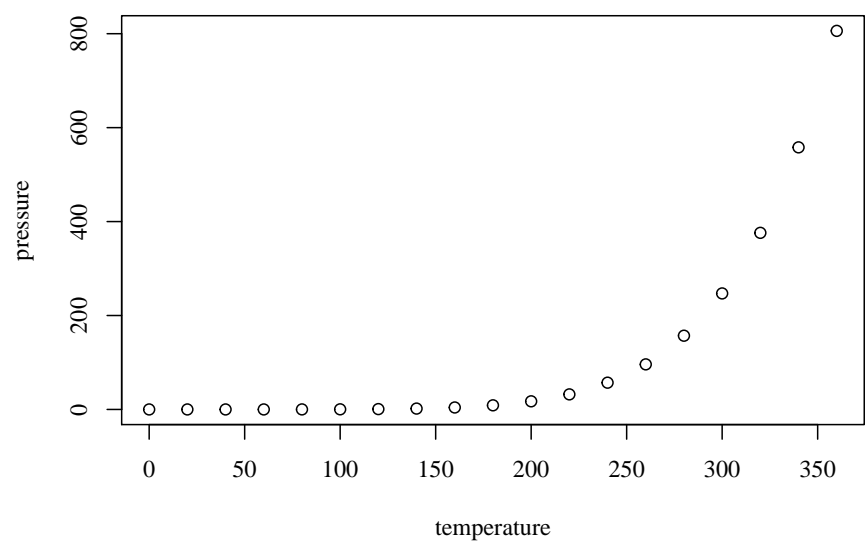


图 1: 全英文字体

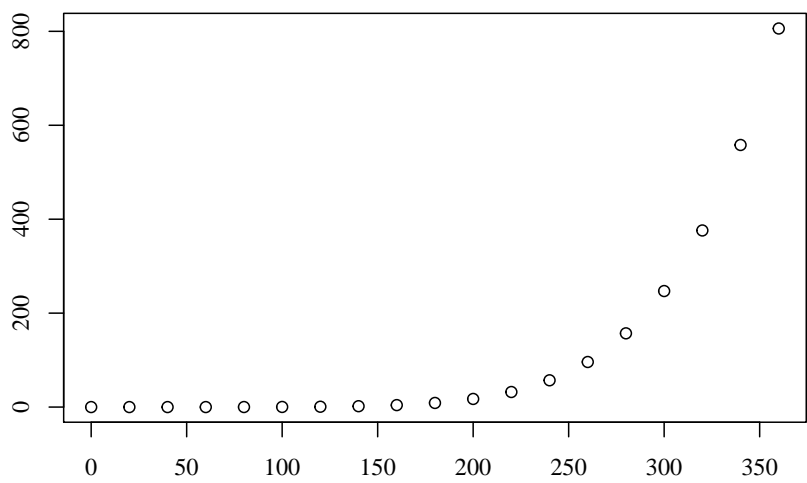


图 2: Times New Roman 字体

#> [4] "AvantGarde"	"Bookman"	"Courier"
#> [7] "Helvetica"	"Helvetica-Narrow"	"NewCenturySchoolbook"
#> [10] "Palatino"	"Times"	"URWGothic"
#> [13] "URWBookman"	"NimbusMon"	"NimbusSan"
#> [16] "URWHelvetica"	"NimbusSanCond"	"CenturySch"
#> [19] "URWPalladio"	"NimbusRom"	"URWTimes"
#> [22] "ArialMT"	"Japan1"	"Japan1HeiMin"
#> [25] "Japan1GothicBBB"	"Japan1Ryumin"	"Korea1"
#> [28] "Korea1deb"	"CNS1"	"GB1"

1.3 艺术字体

2 公式

- <https://github.com/wch/fontcm>
- tikzDevice
- 默认 serif
- <https://github.com/wch/extrafont>