引言

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目录

1 引言

```r
pacman::p_load(sf, ggplot2, dplyr, showtext)
Sys.setlocale("LC_ALL","Chinese")
```

```
## [1] "LC_COLLATE=Chinese (Simplified)_China.936;LC_CTYPE=Chinese (Simplified)_China.936;LC_MONETARY=C
```

```r
crs_cn = '+init=epsg:4508'

# add fonts
font_add("NotoSerif", "NotoSerifCJKsc-Regular.otf")
font_add("NotoSansMono", "NotoSansMonoCJKsc-Regular.otf")
font_add("NotoSansCJK", "NotoSansCJKsc-Regular.otf")
showtext_auto()
```

```r
d = read_sf("Shapefile/Hubei/Hubei.shp")

# 选取市边界，并且市名中的将较长后缀去掉
Hubei_City = filter(d, Layer == '市') %>%
  mutate(Name = gsub('市|林区|土家族苗族自治州', '', Name))
Hubei_Cnty = filter(d, Layer == '区县') # 选取区县边界
```

```r
ggplot() +
  geom_sf(data = Hubei_Cnty, fill = NA, size = 0.3, color = 'gray70') +
  geom_sf(data = Hubei_City, fill = NA, size = 1) +
  geom_sf_text(data = Hubei_City, aes(label = Name),
               colour = "blue", family = "NotoSerif") +
  theme_void() +
  coord_sf(crs = st_crs(crs_cn))
```