Chengdu

JACKTANSNAKE

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```
Facility <- read_excel("../dataset/Facility.xlsx")
```

变量名	描述
Name	机构名称
Period	创办的时间段（无用）
Year_Start	创办的年月日
City	所在城市
District	所在城市的行政区
Class	机构性质
Bed	床位数
Area	占地面积
Address	地址
Star_Level	星级

```
Facility_Chengdu <- Facility %>%
  filter(City == "成都") %>%
  mutate(Year_Start = mdy(Year_Start)) %>%
  mutate(Year = year(Year_Start))

Facility_Chengdu %>%
  summarise(number = n())
```

```
## # A tibble: 1 x 1
##    number
##     <int>
## 1     201
```

```
Facility_Chengdu %>%
  summarise(total_bed = sum(Bed))
```

```
## # A tibble: 1 x 1
##    total_bed
##        <dbl>
## 1     59109
```

根据养老网的数据显示，目前成都能查得到地址的机构有201家（网站显示有213家，但其中十二家查无地址），共59109张床位（民政厅项目按500张计算）。

```
register_google(key = "AIzaSyBvmJ3i5S_-GuGKeho8YD7ZzBG7lDXI3Go", write = TRUE)
```

```
## Replacing old key (AIzaSyBvmJ3i5S_) with new key in C:\Users\ztan1\Documents/.Renviron
```

```
set_config(
  use_proxy(url="127.0.0.1", port=1080, username="JACKTANSNAKE",password="12q12q12q")
)
df <- geocode(Facility_Chengdu$Address)
```

```
Facility_Complete <- cbind(Facility_Chengdu, df)
```
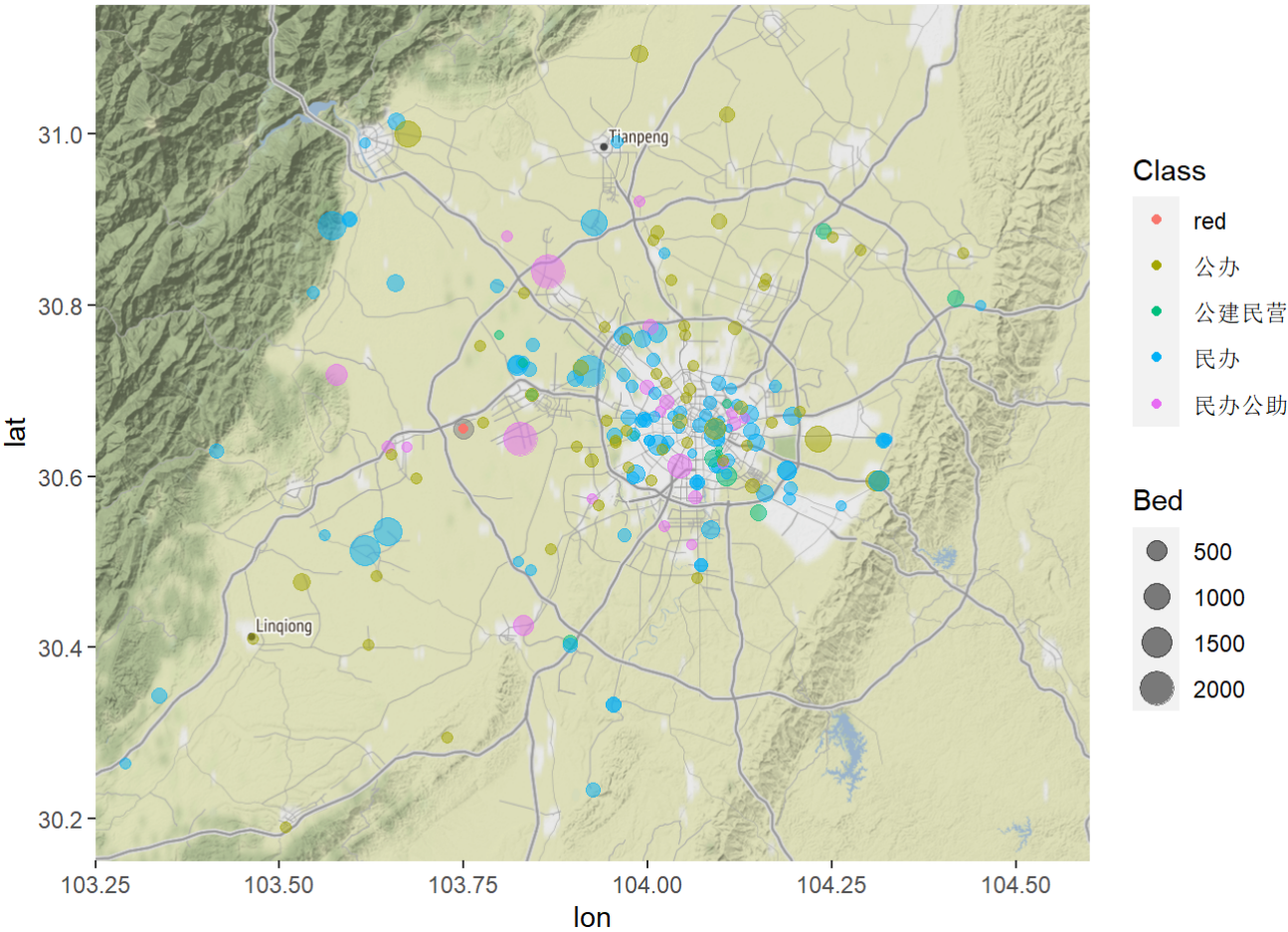
```
Facility_Complete <- Facility_Complete %>%
  filter(Bed < 5000)
```

这里去除一个12500张床位老年公寓一个5000张床位老年公寓，因为数量过大影响后面画图。

```
bbox_Chengdu <- c(left = 103.25, bottom = 30.15, right = 104.6, top = 31.15)
map_Chengdu_satellite <- get_map(bbox_Chengdu, maptype = "satellite", source = "osm")
```

```
ggmap(map_Chengdu_satellite) +
  geom_point(data = Facility_Complete,
             aes(x = lon, y = lat, color = Class, size = Bed),
             alpha = .5)+
  geom_point(data = Facility_Complete,
             aes(x = 103.7494, y = 30.65515, color = "red"))
```

```
## Warning: Removed 7 rows containing missing values (geom_point).
```

图上各机构性质用颜色区分，体量用大小区分，其中中涧偏左大红色点为民政厅项目所在位置。