

In-class 4

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5.1.5 Q1

```
library(r02pro)
```

```
## Warning: package 'r02pro' was built under R version 4.3.3
```

```
jpeg('data/sale_price_vs_liv_area.jpg')  
plot(sahp$liv_area, sahp$sale_price, xlab = 'living area', ylab = 'sale price', col =  
  ↪ 'red')  
dev.off()
```

```
## pdf
```

```
## 2
```

The two variables are positively correlated.

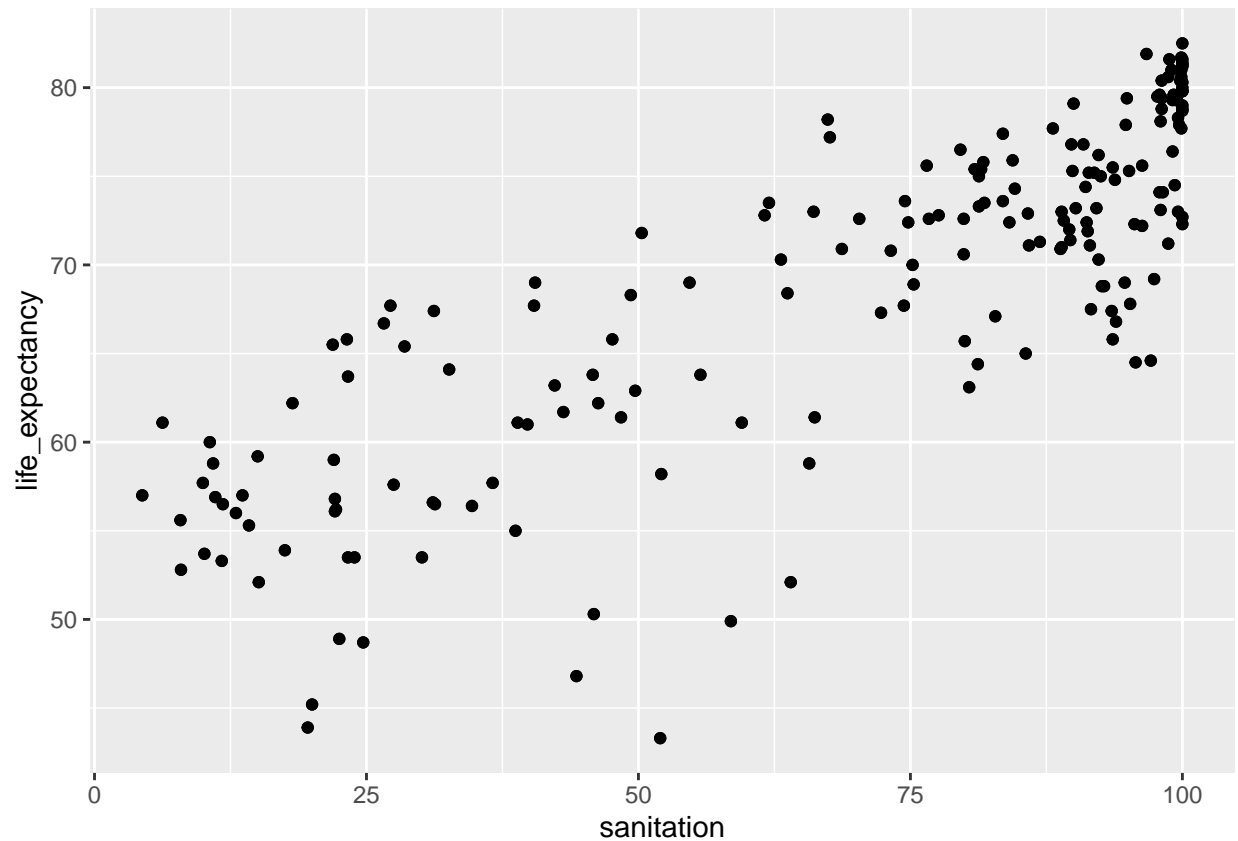
5.1.5 Q2

```
library(ggplot2)
```

```
## Warning: package 'ggplot2' was built under R version 4.3.3
```

```
ggplot(data = gm2004) +  
  geom_point(mapping = aes(x = sanitation,  
                           y = life_expectancy))
```

```
## Warning: Removed 90 rows containing missing values or values outside the scale range  
## (`geom_point()`).
```



```
ggsave('data/life_expectancy_vs_sanitation.pdf')
```

```
## Saving 6.5 x 4.5 in image
```

```
## Warning: Removed 90 rows containing missing values or values outside the scale range
## (`geom_point()`).
```

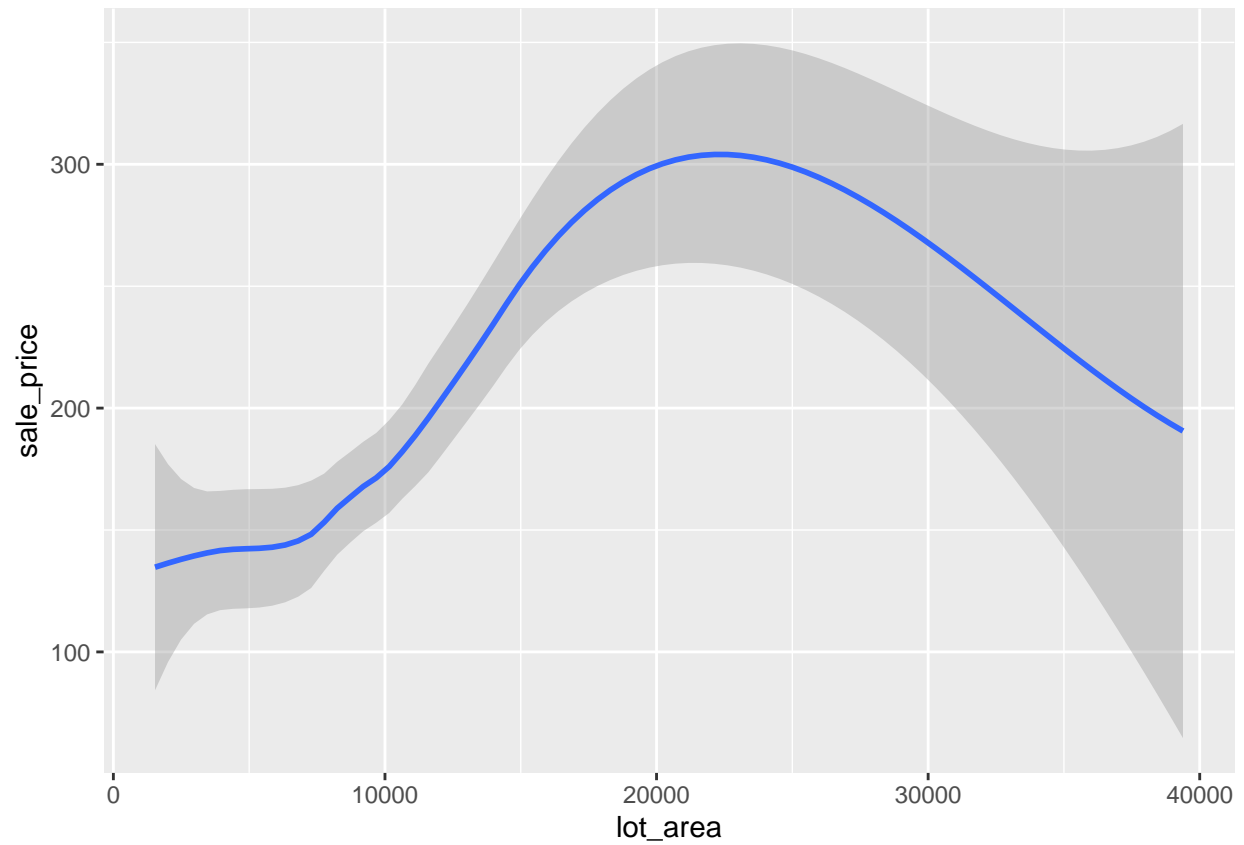
Sanitation and life expectancy seem to be positively correlated.

5.6.4 Q1

```
ggplot(data = sahp) +
  geom_smooth(mapping = aes(x = lot_area,
                           y = sale_price))
```

```
## `geom_smooth()` using method = 'loess' and formula = 'y ~ x'
```

```
## Warning: Removed 1 row containing non-finite outside the scale range
## (`stat_smooth()`).
```



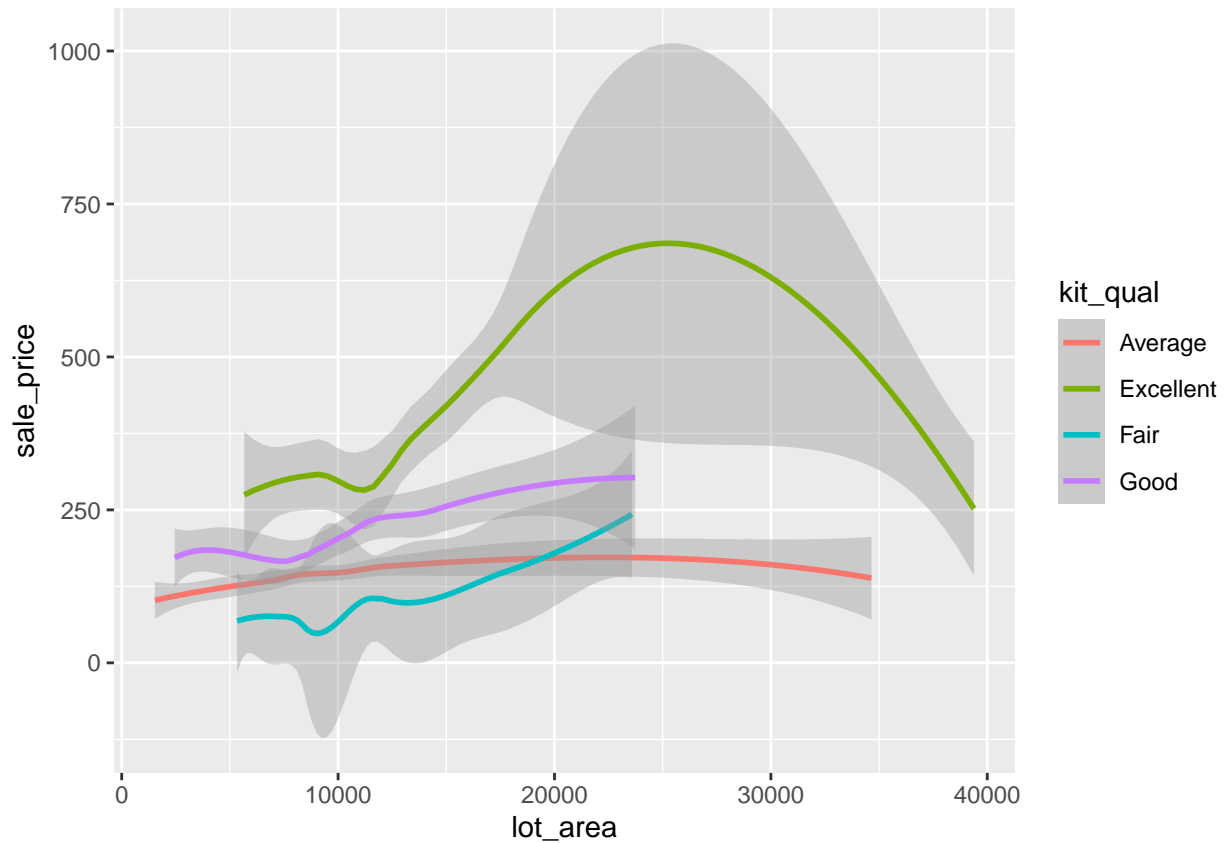
5.6.4 Q2

```
ggplot(data = sahp) +  
  geom_smooth(mapping = aes(x = lot_area,  
                             y = sale_price,  
                             color = kit_qual))
```

```
## `geom_smooth()` using method = 'loess' and formula = 'y ~ x'
```

```
## Warning: Removed 1 row containing non-finite outside the scale range
```

```
## (`stat_smooth()`).
```



5.6.4 Q3

```
ggplot(data = sahp) +
  geom_smooth(mapping = aes(x = lot_area,
                           y = sale_price,
                           linetype = bedroom > 2),
             se = F)
```

```
## `geom_smooth()` using method = 'loess' and formula = 'y ~ x'
```

```
## Warning: Removed 1 row containing non-finite outside the scale range
```

```
## (`stat_smooth()`).
```

