1. **Visualizing housing starts after 1975**
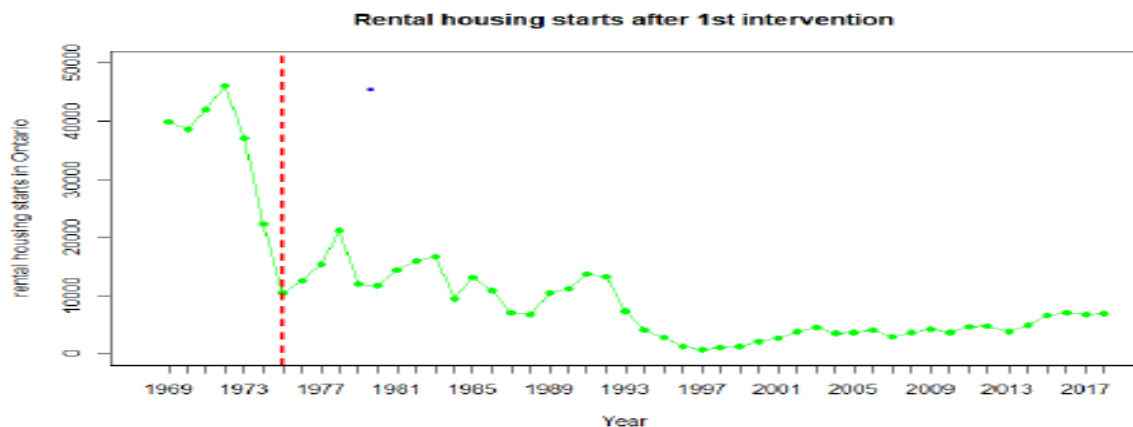
```
plot(HSR$OHSrental_units, col="green", pch=19,
    main = "Rental housing starts after 1st intervention",
    ylab = "Rental housing starts in Ontario",
    xlab = "year",
    xlim = c(0,50),
    ylim = c(0,50000),
    xaxt="n")
    axis(1, at=1:367, labels = HSR$year)
    abline(v=7, ltv=2)
```

Explanation: The plot depicts that the rental housing starts were declining prior to the introduction of rent control in 1975(first intervention).

However, after the intervention, rental housing starts increased slightly to 20000 units and again decreased and increased till 1991. However, after 1991, there was a sharp decline in rental housing starts and it never increased to 10000 units approximately which were at the time (1975) when the law was imposed.
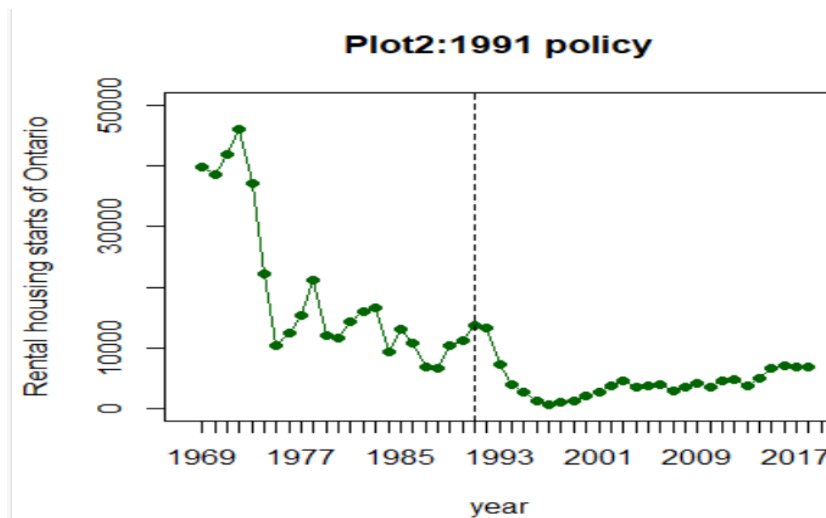

2. **Visualizing housing starts after 1991**

```
plot(HSR$OHSrental_units, type = 'o', col="dark green", pch=19,
     main = "Plot2:1991 policy",
     ylab = "Rental housing starts of Ontario",
     xlab = "year",
     xlim = c(0,50),
     ylim = c(0,50000),
     xaxt="n")
axis(1, at=1:367, labels= HSR$year)
abline(v=23, col="black",lty=2)
```
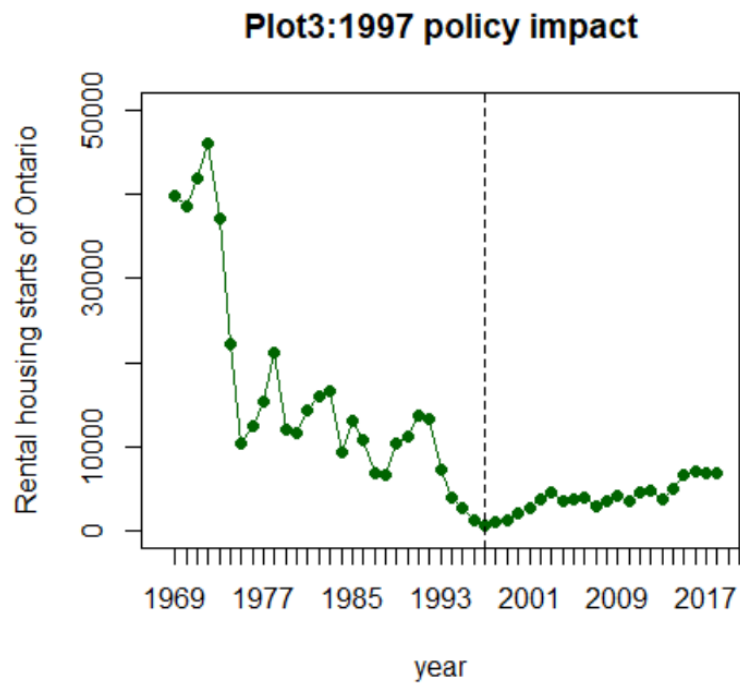

The plot depicts that the rental housing starts declined from the year 1972 to 1975. After 1975, the trend of rental housing starts increased and decreased till the year 1991. However, after the intervention, rental housing starts decreased gradually till the year 1997 where the rental units nearly touched zero. Further, after 1997, the rental housing starts increased to 5000 units in the year 2003. Prior to the intervention, from the year 1989 to 1991, the housing rental starts were increasing and after the intervention the units declined.

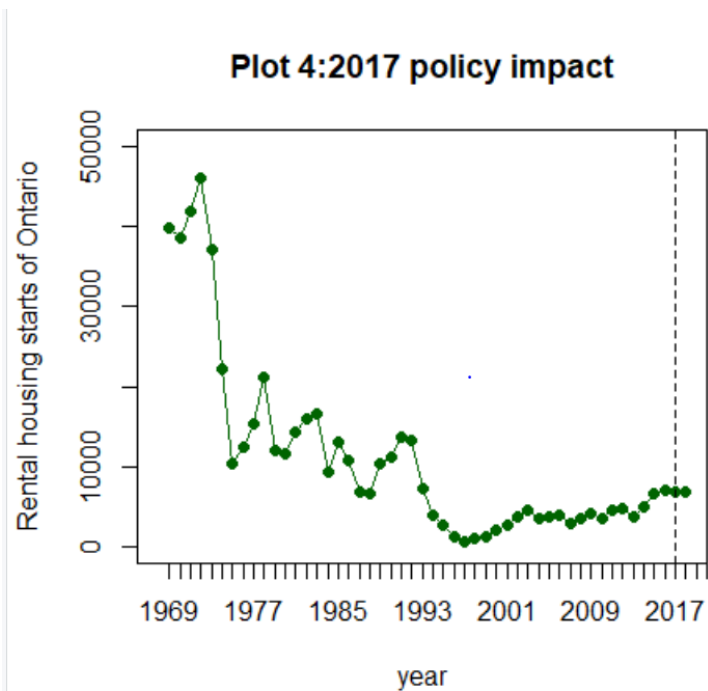### 3. Visualization of 1997 policy impact

```
plot(HSR$OHSrental_units, type = 'o', col="dark green", pch=19,
     main = "Plot3:1997 policy impact",
     ylab = "Rental housing starts of Ontario",
     xlab = "year",
     xlim = c(0,50),
     ylim = c(0,50000),
     xaxt="n")
axis(1, at=1:367, labels= HSR$year)
abline(v=29, col="black",lty=2)
```

Plot3:1997 policy impact

4. Visualization of 2017 policy impact

```r
plot(HSR$OHSrental_units, type = 'o', col="dark green", pch=19,
     main = "Plot 4:2017 policy impact",
     ylab = "Rental housing starts of Ontario",
     xlab = "year",
     xlim = c(0,50),
     ylim = c(0,50000),
     xaxt="n")
axis(1, at=1:367, labels= HSR$year)
abline(v=49, col="black",lty=2)
```

Plot 4:2017 policy impact

Prior to the intervention (2017), the rental housing starts increased and decreased till the year 2013. The rental units started to increase gradually after 2013 till 2016 and remained steady after. After a regulation change in 2017 there was no noticeable change in the rental housing units and the trend was steady.