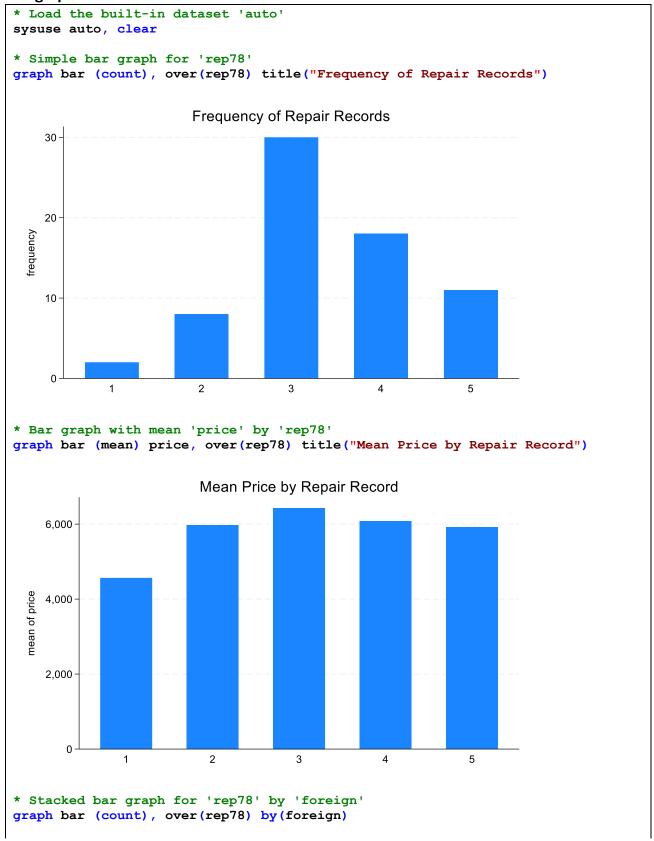
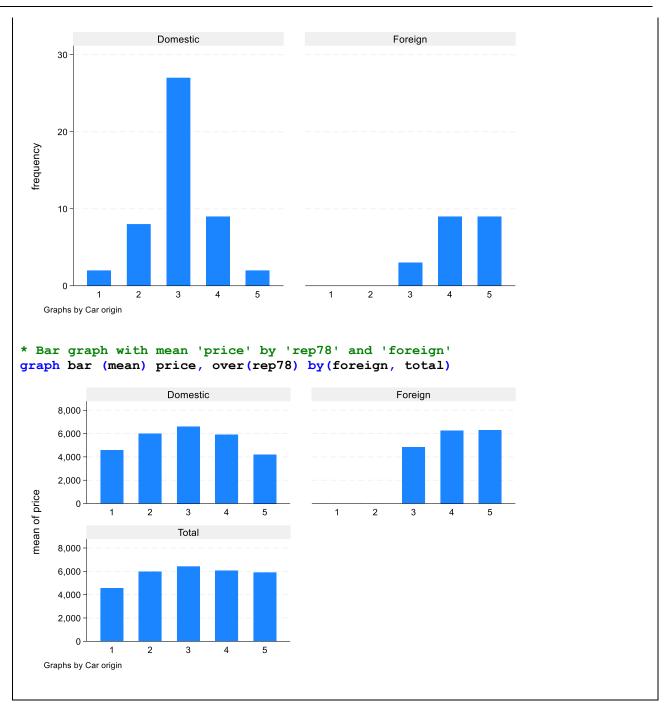
## A. Bar graph

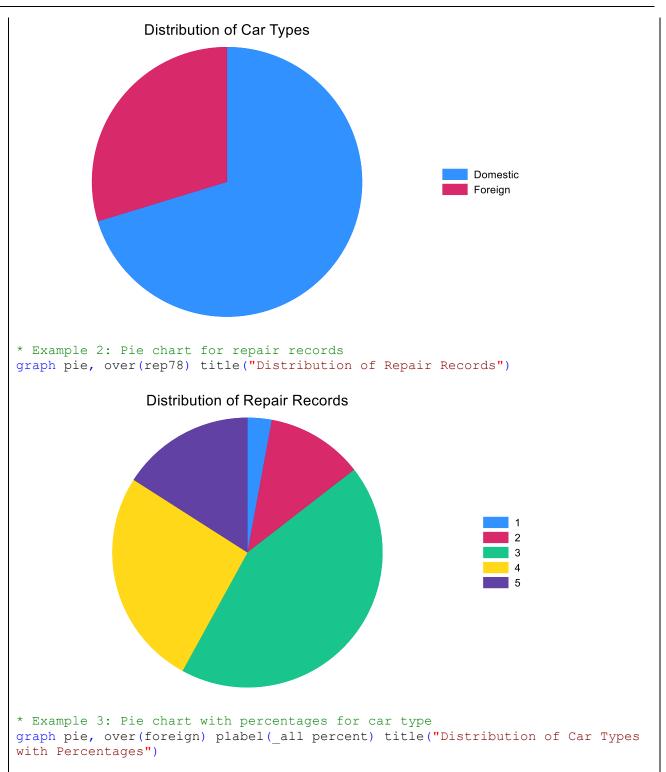


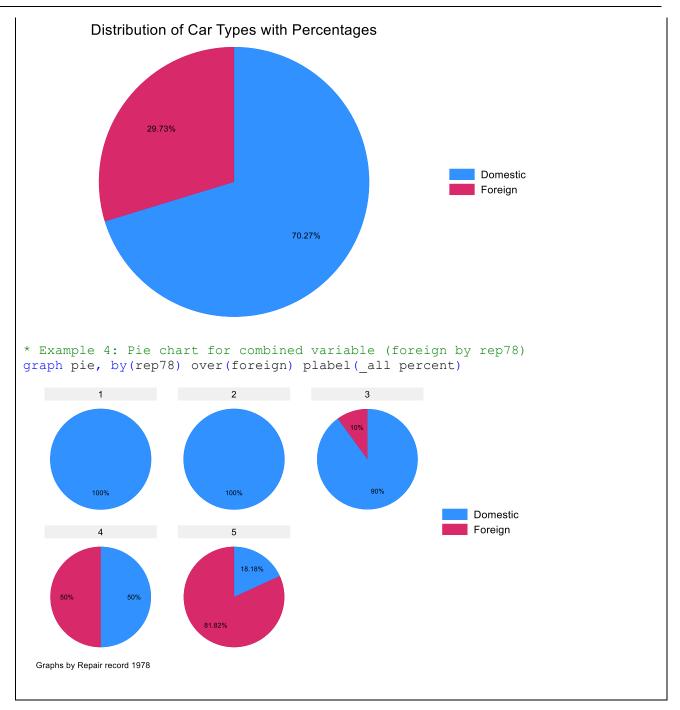


## B. Pie charts

```
* Load the built-in dataset 'auto'
sysuse auto, clear

* Example 1: Pie chart for car type
graph pie, over(foreign) title("Distribution of Car Types")
```





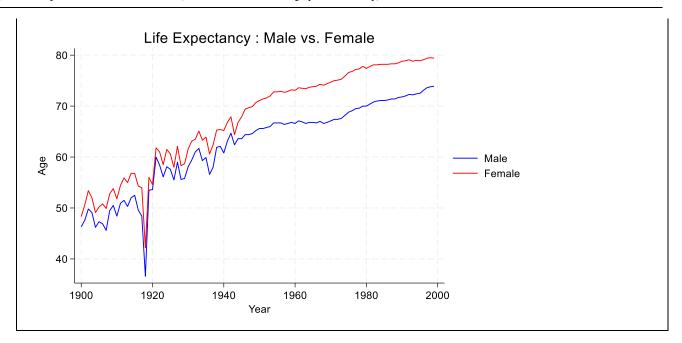
## C. Line chart

```
* Load the built-in dataset 'auto'
sysuse auto, clear

* Calculate mean price by MPG
collapse (mean) price, by(mpg)

* Line graph for average price by MPG
twoway (line price mpg, lcolor(red) lwidth(medium)), title("Average Car Price by MPG") ///
xtitle("Miles per Gallon (MPG)") ytitle("Average Price")
```

```
Average Car Price by MPG
    12,000
    10,000
 Average Price
     8,000
     6,000
     4,000
                             20
                                                                   40
          10
                                                30
                                Miles per Gallon (MPG)
* Load the built-in dataset 'uslifeexp'
sysuse uslifeexp, clear
* Example 1: Line graph for life expectancy by year
twoway (line le year, lcolor(blue) lwidth(medium)), title("Life Expectancy Over
       xtitle("Year") ytitle("Life Expectancy")
                          Life Expectancy Over Time
    80
    70
 Life Expectancy
    60
    50
    40
                  1920
                               1940
                                           1960
                                                        1980
                                                                    2000
      1900
                                     Year
* Example 2: Line graph for life expectancy and fertility by year
twoway (line le male year, lcolor(blue) lwidth(medium)) ///
        (line le_female year, lcolor(red) lwidth(medium)), ///
       title("Life Expectancy : Male vs. Female") ///
       xtitle("Year") ytitle("Age") ///
        legend(order(1 "Male" 2 "Female"))
```



## D. Scatter plot

