

Examples - Tradeoff Curves

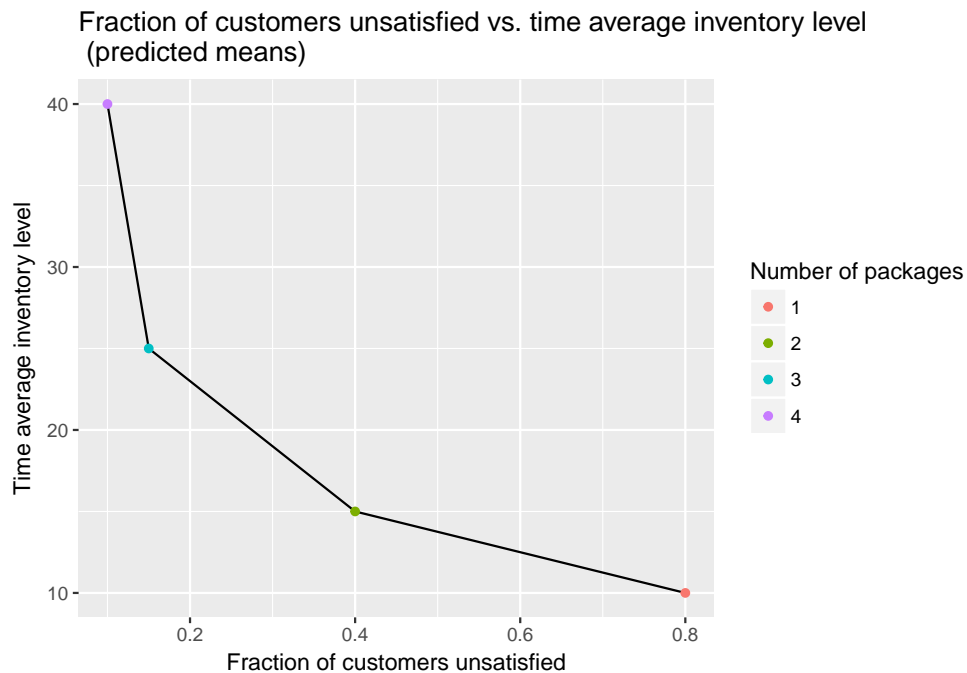
```
library(ggplot2)

# Make up some data
sample.data <- data.frame(
  "n.packages" = c(1, 2, 3, 4),
  "frac.unsatisfied" = c(0.8, 0.4, 0.15, 0.1),
  "avg.inventory" = c(10, 15, 25, 40)
)

# Print fake data
print(sample.data)

##   n.packages frac.unsatisfied avg.inventory
## 1         1         0.80         10
## 2         2         0.40         15
## 3         3         0.15         25
## 4         4         0.10         40

# Here's one type of plot with the points marked by a legend
ggplot(sample.data) +
  geom_line(aes(x = frac.unsatisfied, y = avg.inventory)) +
  geom_point(aes(x = frac.unsatisfied, y = avg.inventory, color=factor(n.packages))) +
  labs(title = paste("Fraction of customers unsatisfied vs. time average inventory level\n",
                    "(predicted means)"),
       x = "Fraction of customers unsatisfied",
       y = "Time average inventory level",
       color = "Number of packages")
```



```

# Here's another type of plot with the points marked with text labels
ggplot(sample.data) +
  geom_line(aes(x = frac.unsatisfied, y = avg.inventory)) +
  geom_point(aes(x = frac.unsatisfied, y = avg.inventory)) +
  geom_text(aes(x = frac.unsatisfied, y = avg.inventory, label=n.packages),
            hjust=-1, vjust=-0.25) +
  labs(title = paste("Fraction of customers unsatisfied vs. time average inventory level\n",
                    "(predicted means)"),
        x = "Fraction of customers unsatisfied",
        y = "Time average inventory level",
        caption = "Values next to points indicate number of packages")

```

