# Bar Charts in ggplot With Multiple Outcomes

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### 1 Setup

```
library(ggplot2) # beautiful graphs
library(tidyr) # tidy data
```

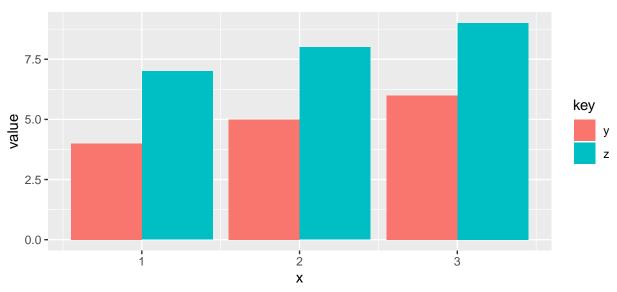
#### 2 Simulated Data

## 3 Reshape Data With Gather

# 4 Graphs

#### 4.1 Bar Chart With Unstacked Bars

```
ggplot(myReshapedData, # data I am using
   aes(x = x, # x is x
        y = value, # y is value
        fill = key)) + # fill is key
geom_bar(stat = "identity", # stat is 'identity'
        position = position_dodge()) # unstack bars
```



#### 4.2 Line Chart

```
ggplot(myReshapedData, # data I am using
    aes(x = x, # x is x
        y = value, # y is value
    color = key, # color is key
        group = key)) + # line needs a group aesthetic
    geom_line()
```

