

## 2 dice model

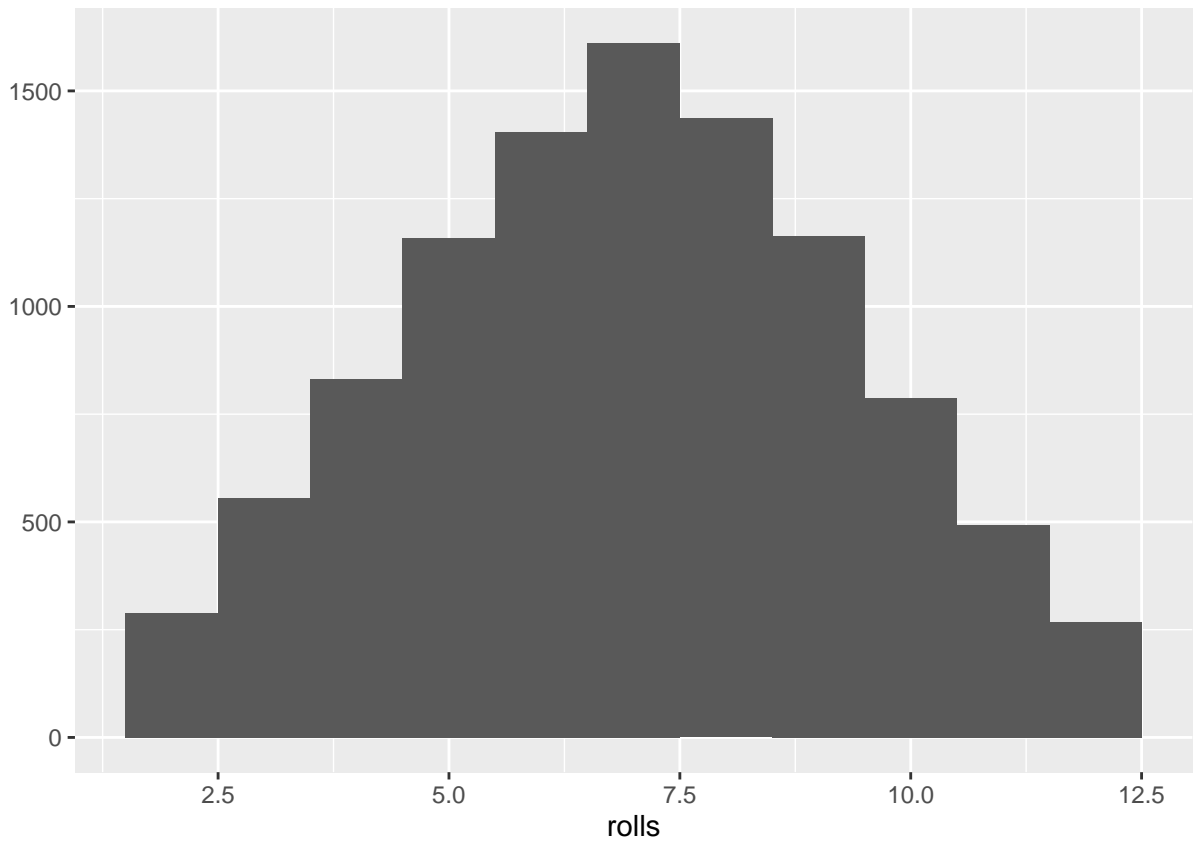
Let us create dice roll model

```
library(ggplot2)
```

Fair dice:

```
roll <- function(){  
  dice <- sample(1:6, 2, replace = TRUE)  
  return(sum(dice))  
}
```

```
rolls <- replicate(10000, roll())  
qplot(rolls, binwidth = 1)
```



Unfair dice:

```
roll <- function(){  
  dice <- sample(1:6, 2, replace = TRUE, prob = c(1/7, 1/7, 1/7, 1/7, 1/7, 2/7))  
  return(sum(dice))  
}
```

```
rolls <- replicate(10000, roll())  
qplot(rolls, binwidth = 1)
```

