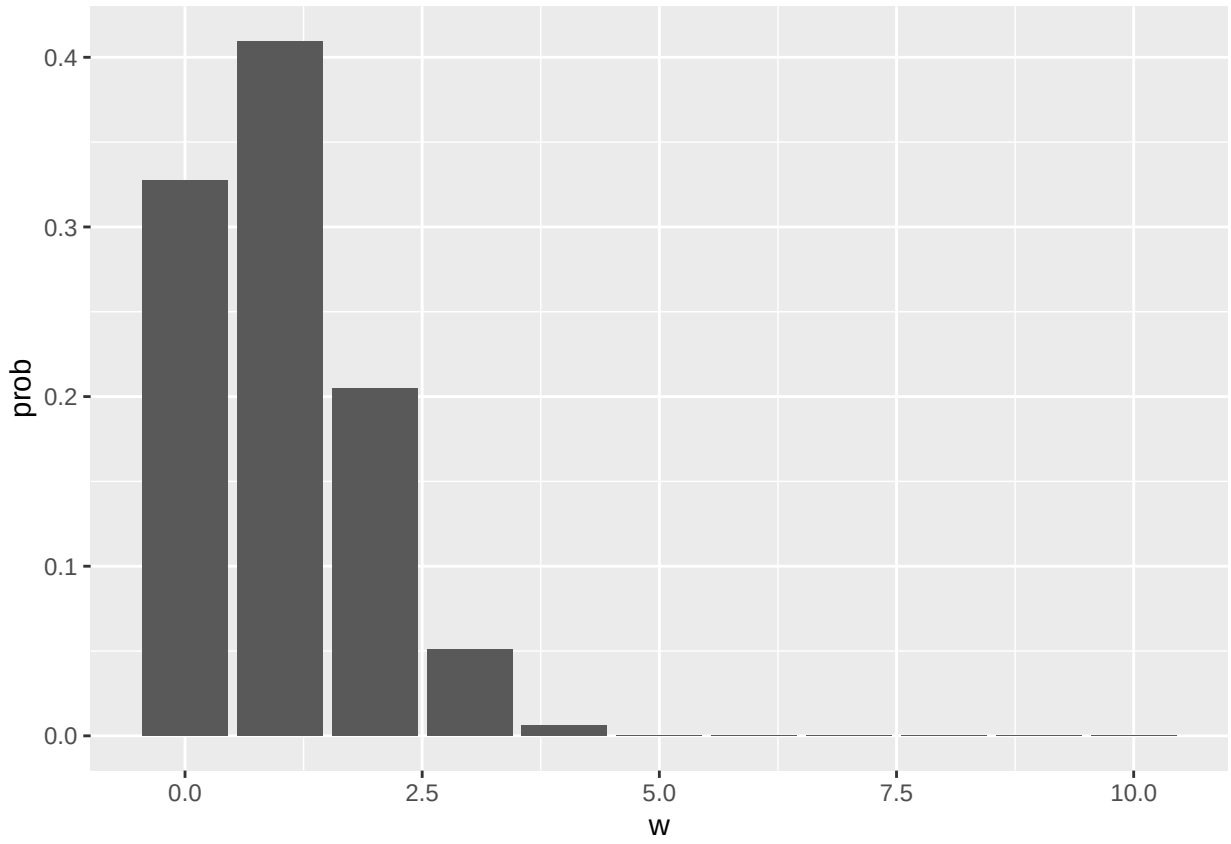
```r
pmf <- dbinom(x = 0:10, size = 5, prob = 0.2)
pmf_df <- data.frame(w = 0:10, prob = round(x = pmf, digits = 4))
pmf_df
```

```
##     w   prob
## 1   0 0.3277
## 2   1 0.4096
## 3   2 0.2048
## 4   3 0.0512
## 5   4 0.0064
## 6   5 0.0003
## 7   6 0.0000
## 8   7 0.0000
## 9   8 0.0000
## 10  9 0.0000
## 11 10 0.0000
```

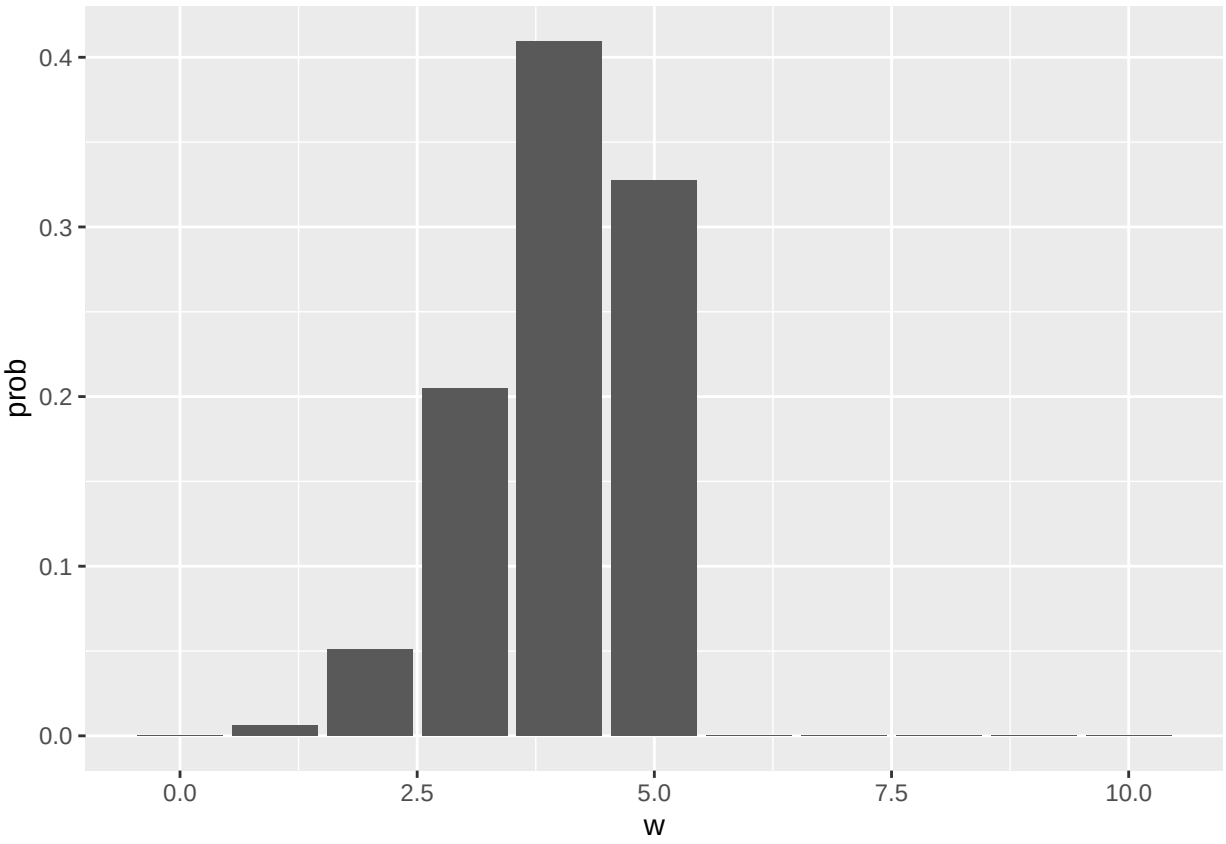
```r
pmf2 <- dbinom(x = 0:10, size = 5, prob = 0.8)
pmf2_df <- data.frame(w = 0:10, prob = round(x = pmf2, digits = 4))
pmf2_df
```

```
##     w   prob
## 1   0 0.0003
## 2   1 0.0064
## 3   2 0.0512
## 4   3 0.2048
## 5   4 0.4096
## 6   5 0.3277
## 7   6 0.0000
## 8   7 0.0000
## 9   8 0.0000
## 10  9 0.0000
## 11 10 0.0000
```

```r
library("ggplot2")
ggplot(pmf_df, aes(w, prob)) + geom_col()
```




```
ggplot(pmf2_df, aes(w, prob)) + geom_col()
```


0.4
0.3
0.2
0.1
0.0
prob
0.0
2.5
5.0
7.5
10.0
w