

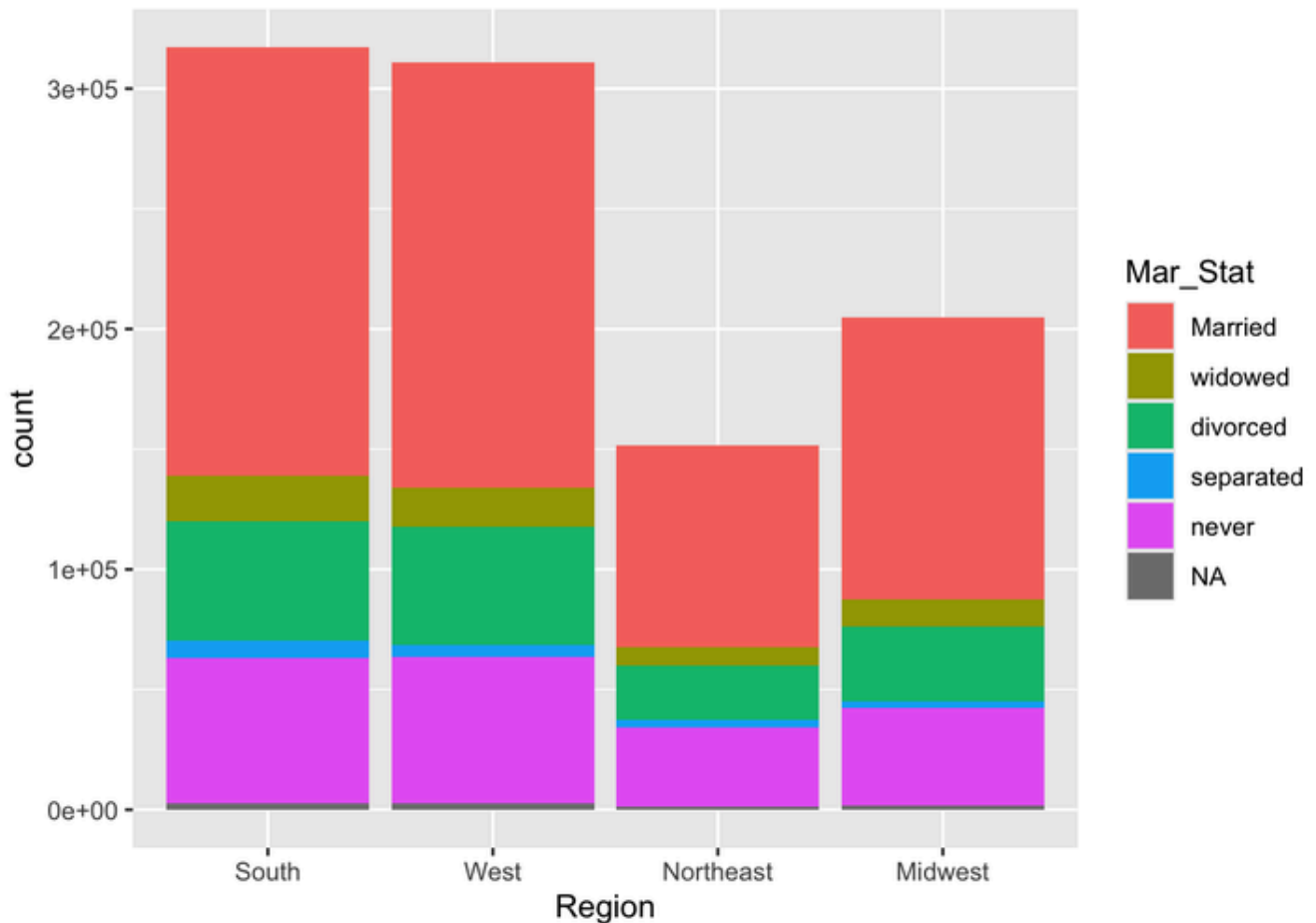
### Homework 3

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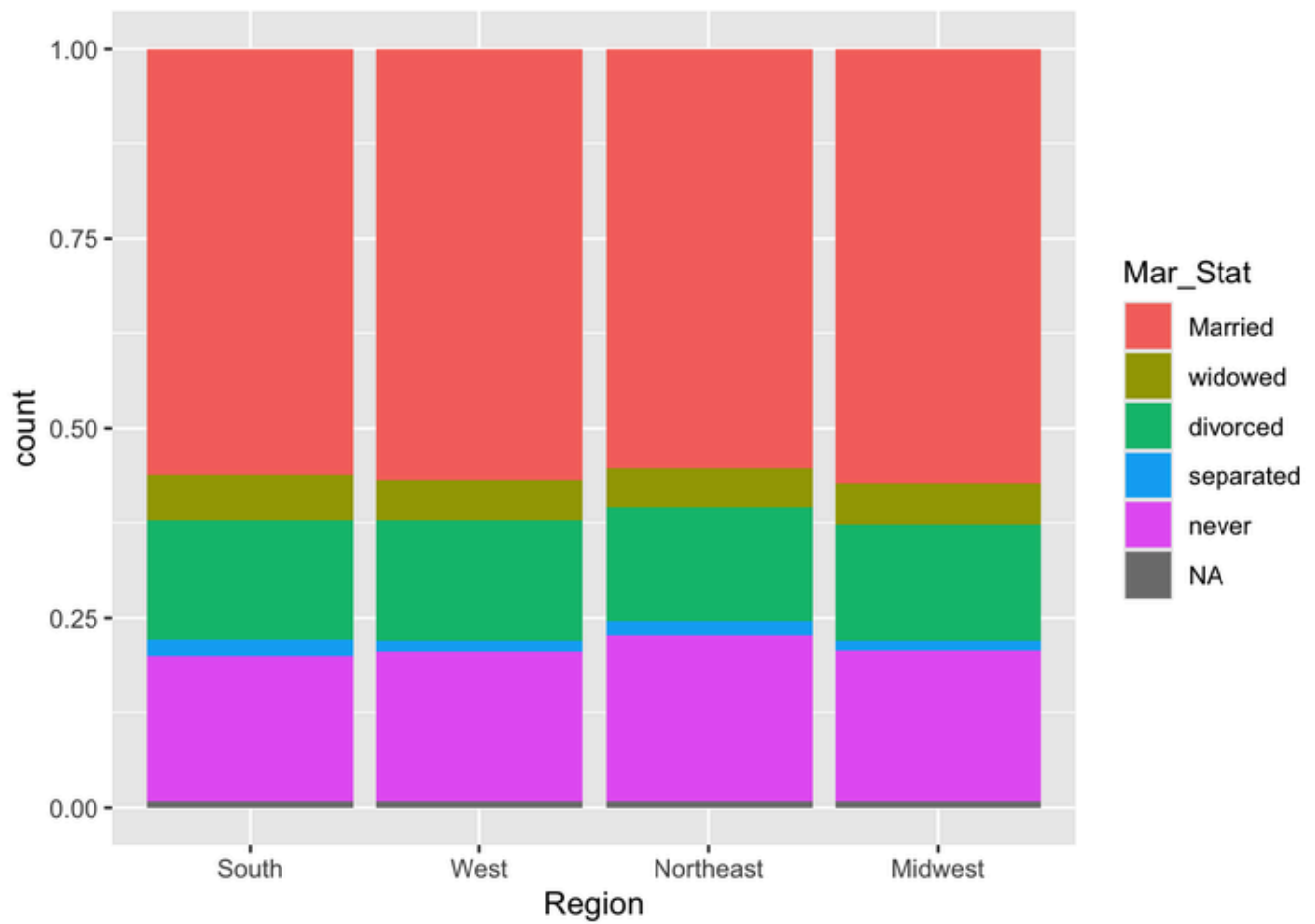
**#create stacked bar plot, each bar representing a region subdivided by marital status**

```
> p <- ggplot(data = d_HHP2020_24,  
+           mapping = aes(x = Region, fill = Mar_Stat))  
> p + geom_bar()
```



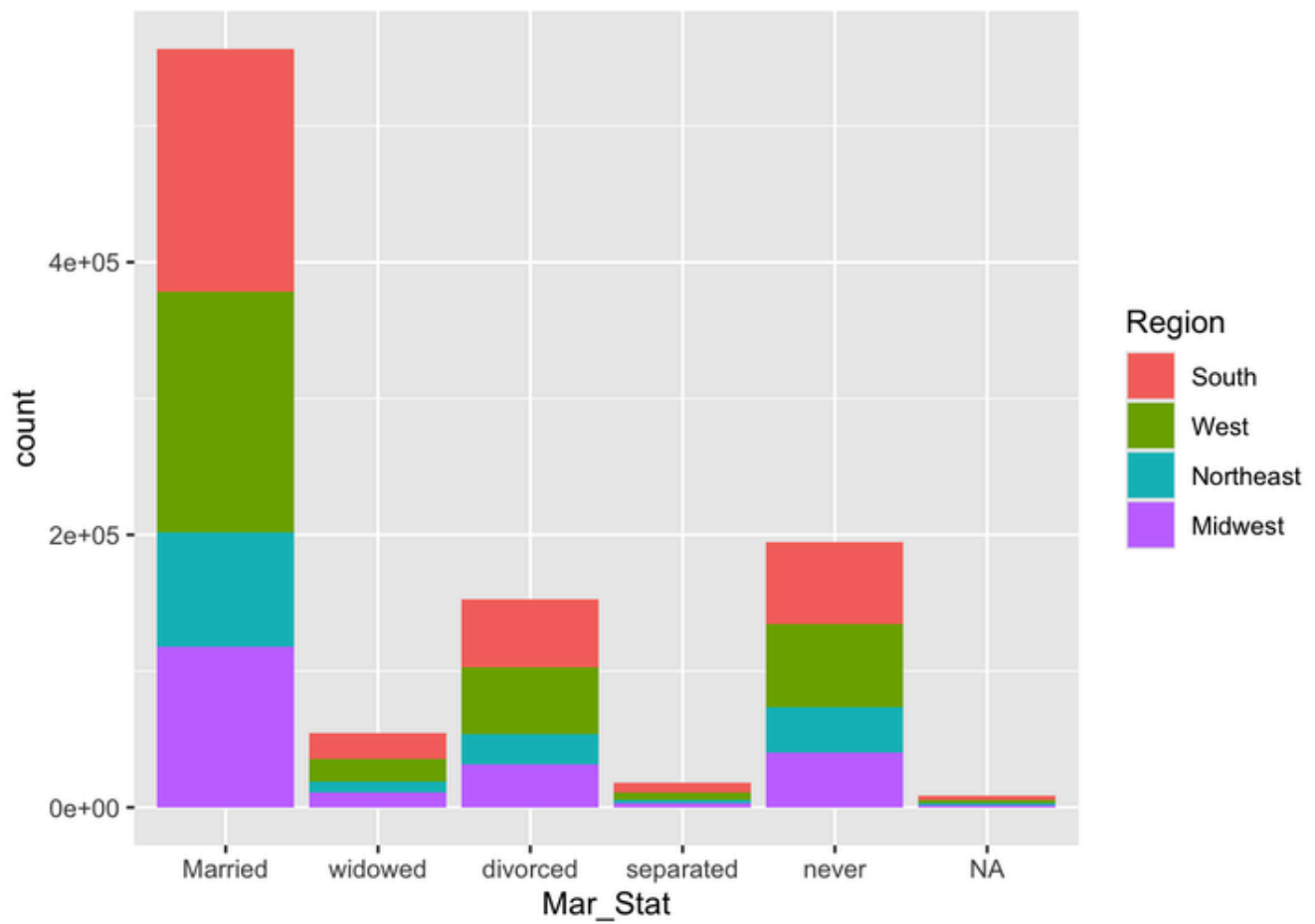
**#create stacked bar plot with proportion instead of count**

```
p + geom_bar(position = "fill")
```



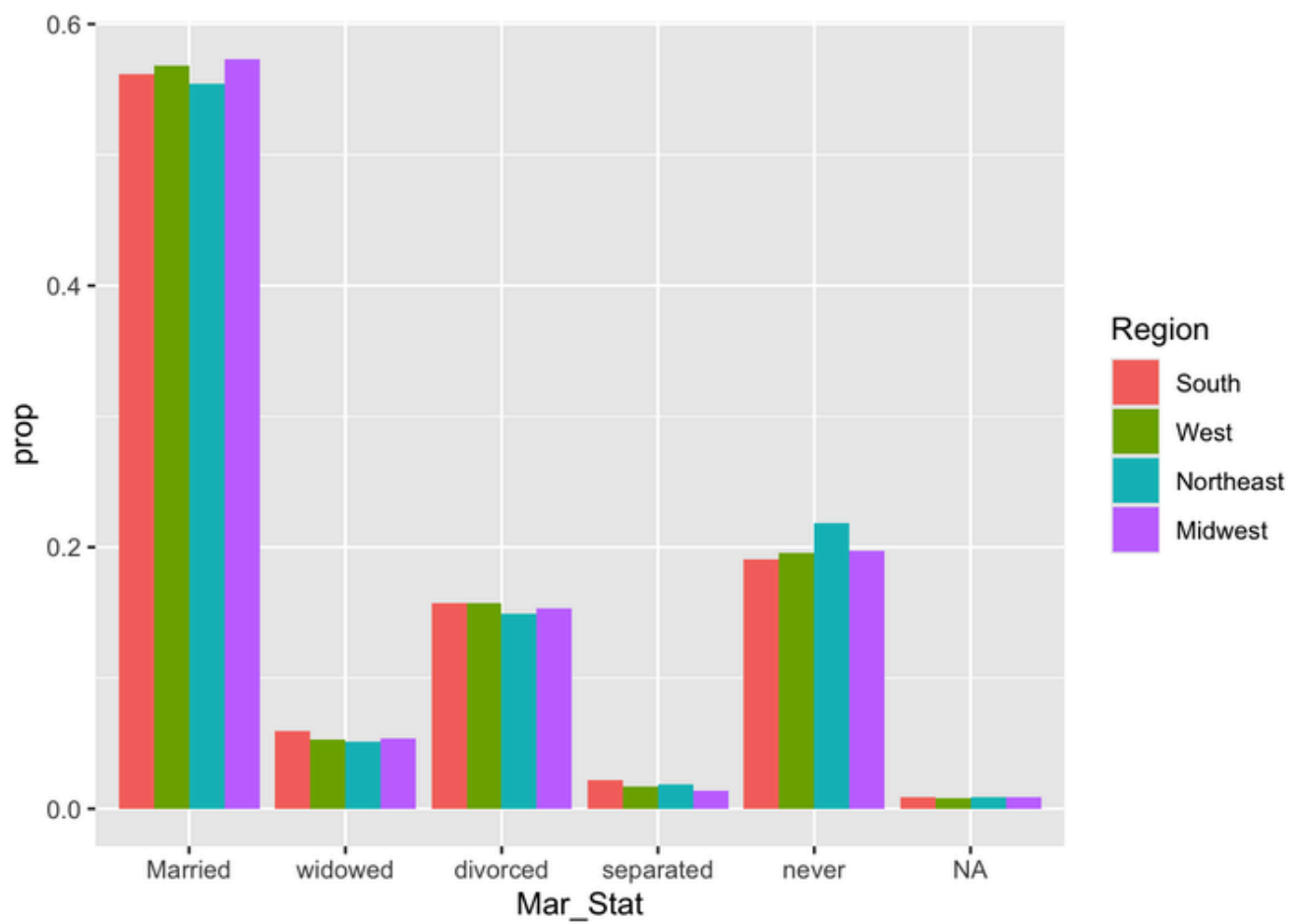
#swap region and marital status, allowing columns to stand for marital status subdivided by region

```
p <- ggplot(data = HHP_NY_NJ,
  mapping = aes(x = Education, fill = State))
p + geom_bar()
```



**#compare histograms with clustered bar chart**

```
p + geom_bar(position = "dodge",  
  mapping = aes(  
    y = after_stat(prop),  
    group = State))
```



**#this allows us to notice there is a slightly larger number of never married people in the Northeast region compared to the others**