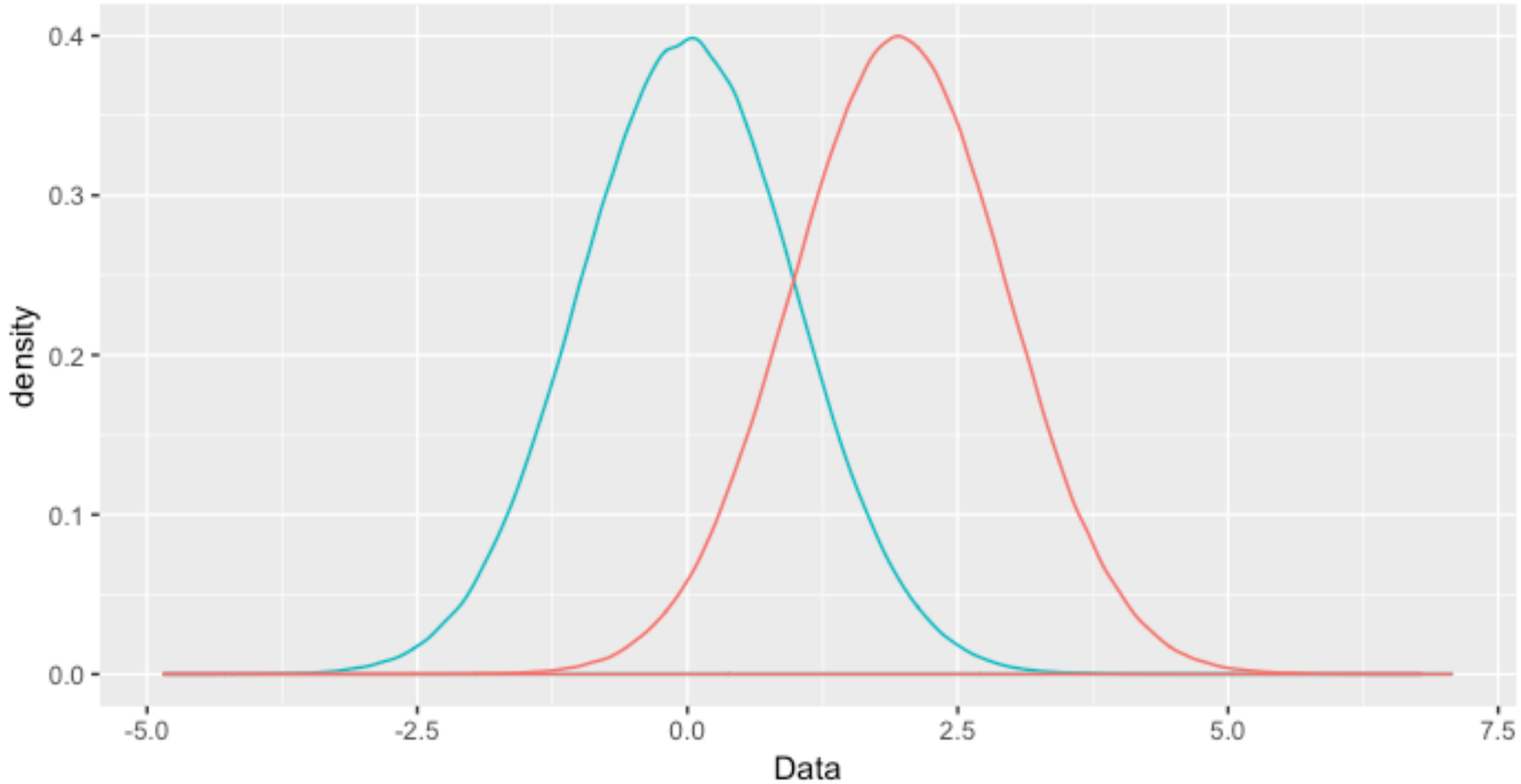
- Simulating data sampled from 2 distributions and plotting them on the same graph:

```
> set.seed(1234)
> cond1 <- rnorm(1000000, 0, 1)
> cond2 <- rnorm(1000000, 1.96, 1)
> data <- as.tibble(cbind(cond1, cond2))

> ggplot(data) +
    geom_density(aes(x = cond1, y = ..density.., colour = "red")) +
    geom_density(aes(x = cond2, y = ..density.., colour = "green")) +
    xlab("Data") +
    guides(colour = FALSE)
```



Some useful functions

- Previously we have used a function `c()` which combines elements into one vector.

- On the previous slide you might have spotted the function `cbind()` which combines vectors by column.

```
> a <- c(1, 2, 3)
> b <- c(4, 5, 6)
> cbind(a,b)
     a b
[1,] 1 4
[2,] 2 5
[3,] 3 6
```