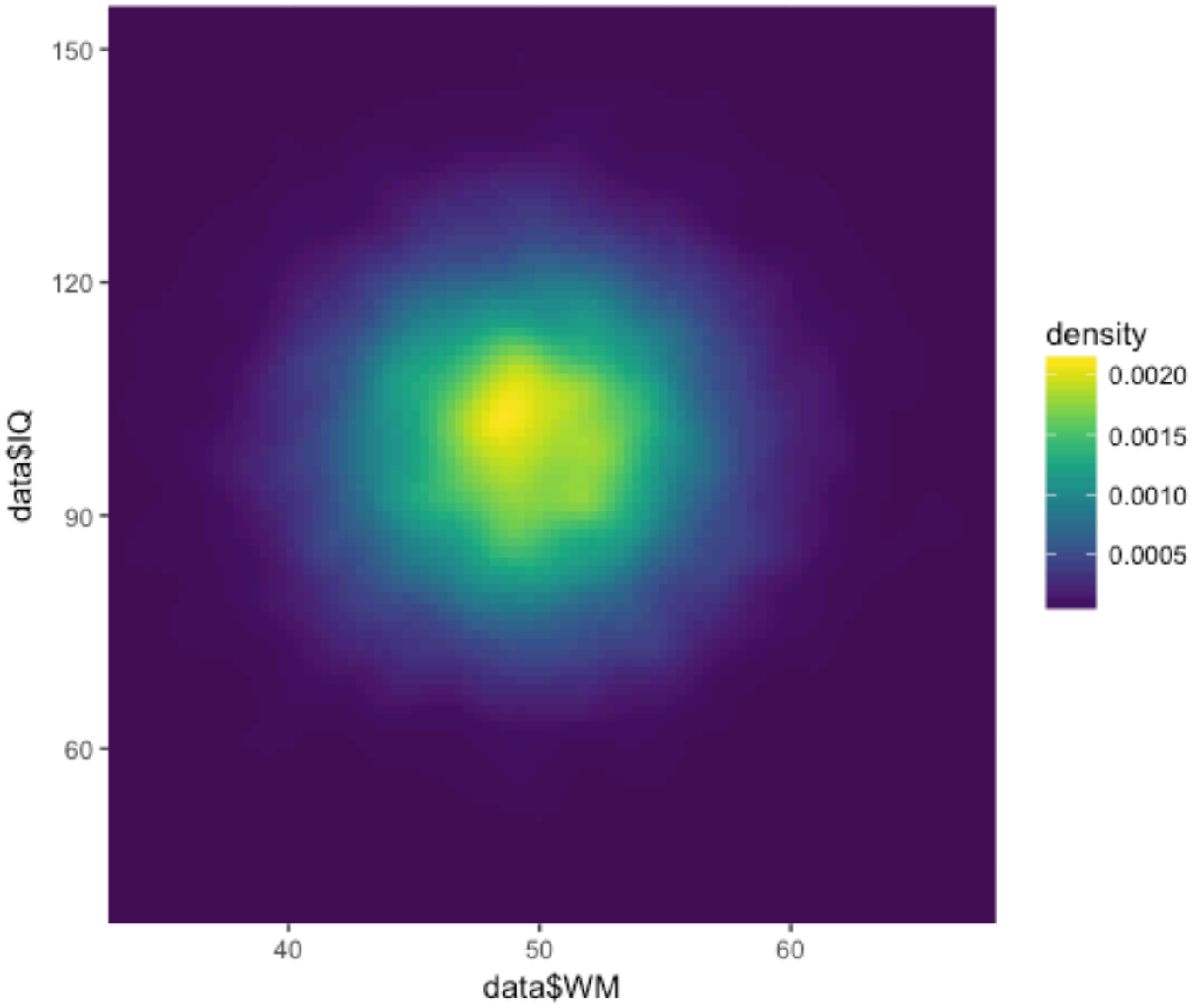
And as a Density Heat Map




```
> ggplot(data, aes(x = WM, y = IQ)) + stat_density_2d(aes(fill = ..density..), ge
= 'raster', contour = FALSE) + scale_fill_viridis() + coord_cartesian(expand =
FALSE)
```

If IQ and WM were perfectly (positively) correlated, we'd have something like this…

```
> #creating two perfectly
correlated variables
> set.seed(1234)
> mysigma <- matrix(c(1,1,1,1),
2,2)
> x1 <- mvrnorm(n = 1000,
c(5.3,10), mysigma)
> x5 <- as.data.frame(x1)
> colnames(x5) <- c("IQ", "WM")

> ggplot(x5, aes(x = WM, y = IQ))
+ stat_density_2d(aes(fill
= ..density..), geom = 'raster',
contour = FALSE) +
scale_fill_viridis() +
coord_cartesian(expand = FALSE)
```