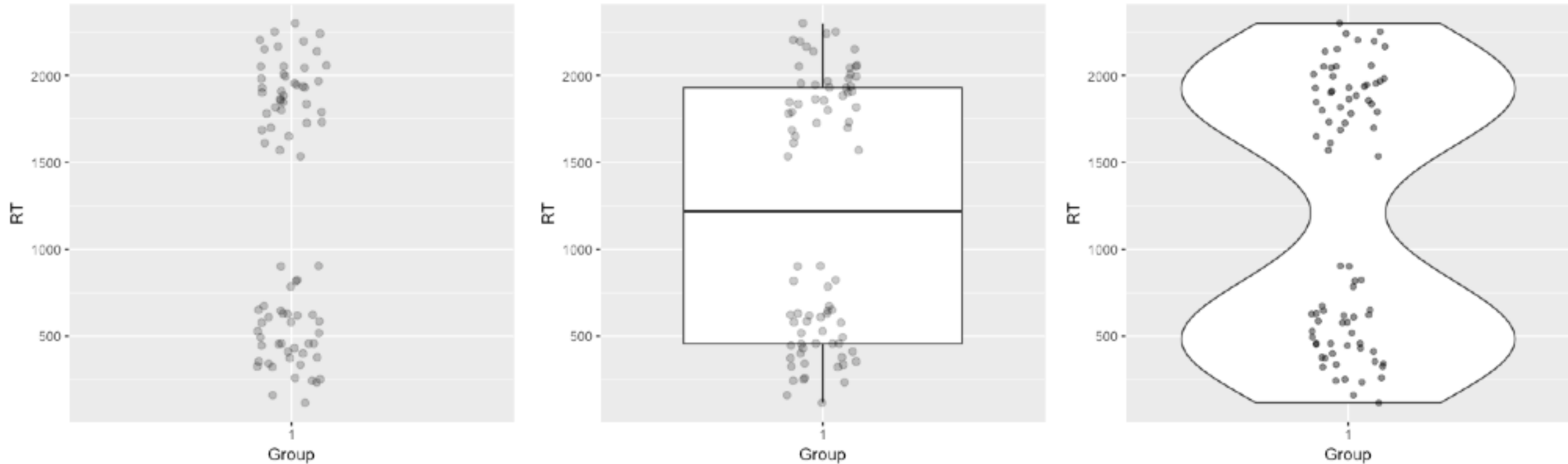
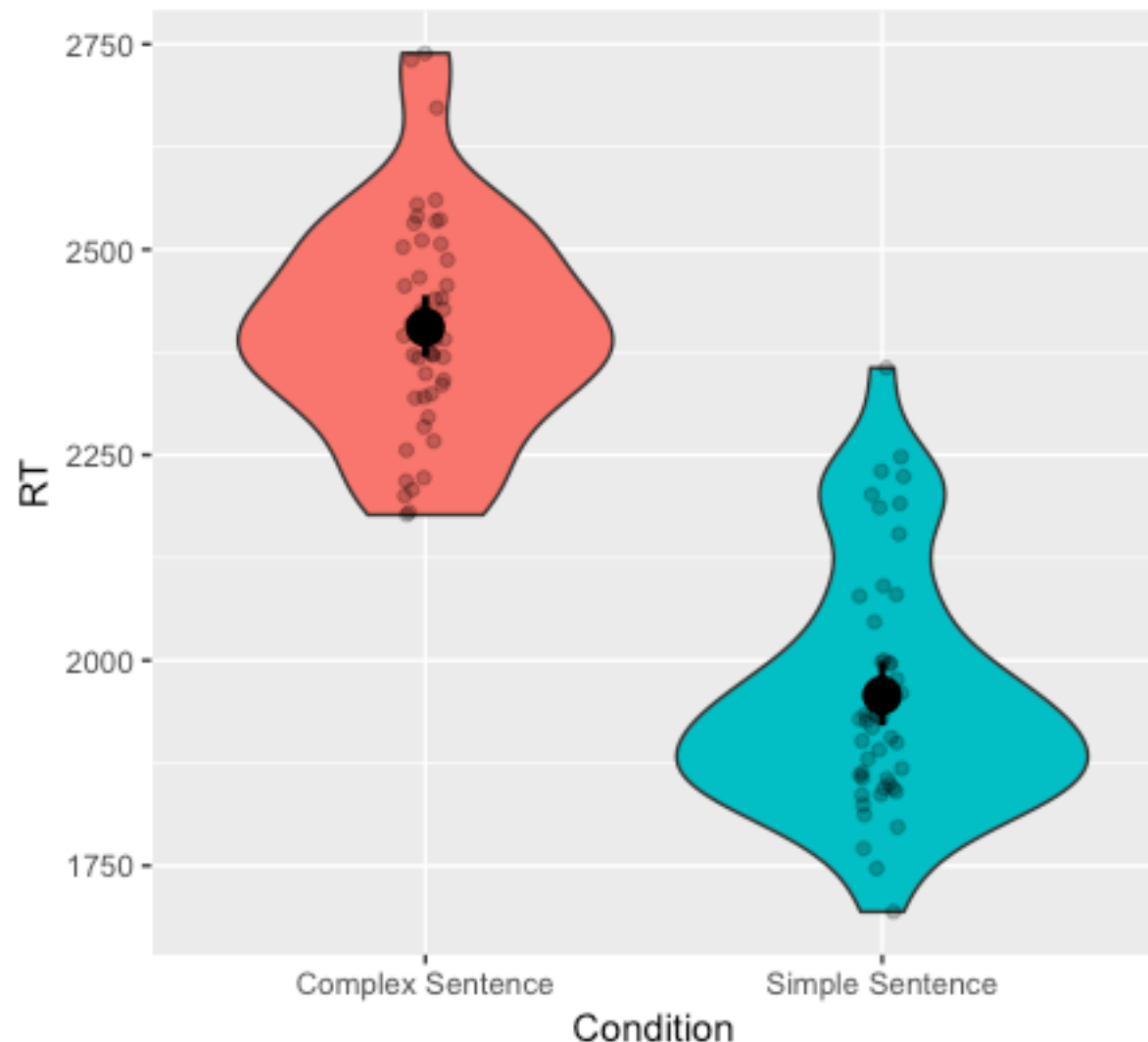


But look more closely at the actual data...



The data are clearly bimodal with no actual data point near the mean.
Distribution shape matters and we need to capture that in our data visualisations.

Violin Plots



Violin plots tell us about the distribution of the data. The width at any point corresponds to the *density* of the data at that value.

```
ggplot (data_long, aes (x = Condition, y = RT, group = Condition, fill =  
Condition)) + geom_violin() + geom_jitter(alpha = .25, position =  
position_jitter(0.05)) + guides(colour = FALSE, fill = FALSE) + stat_summary  
(fun.data = "mean_cl_boot", colour = "black", size = 1)
```