

- We can put together all we know so far to simulate data from 10 experiments:

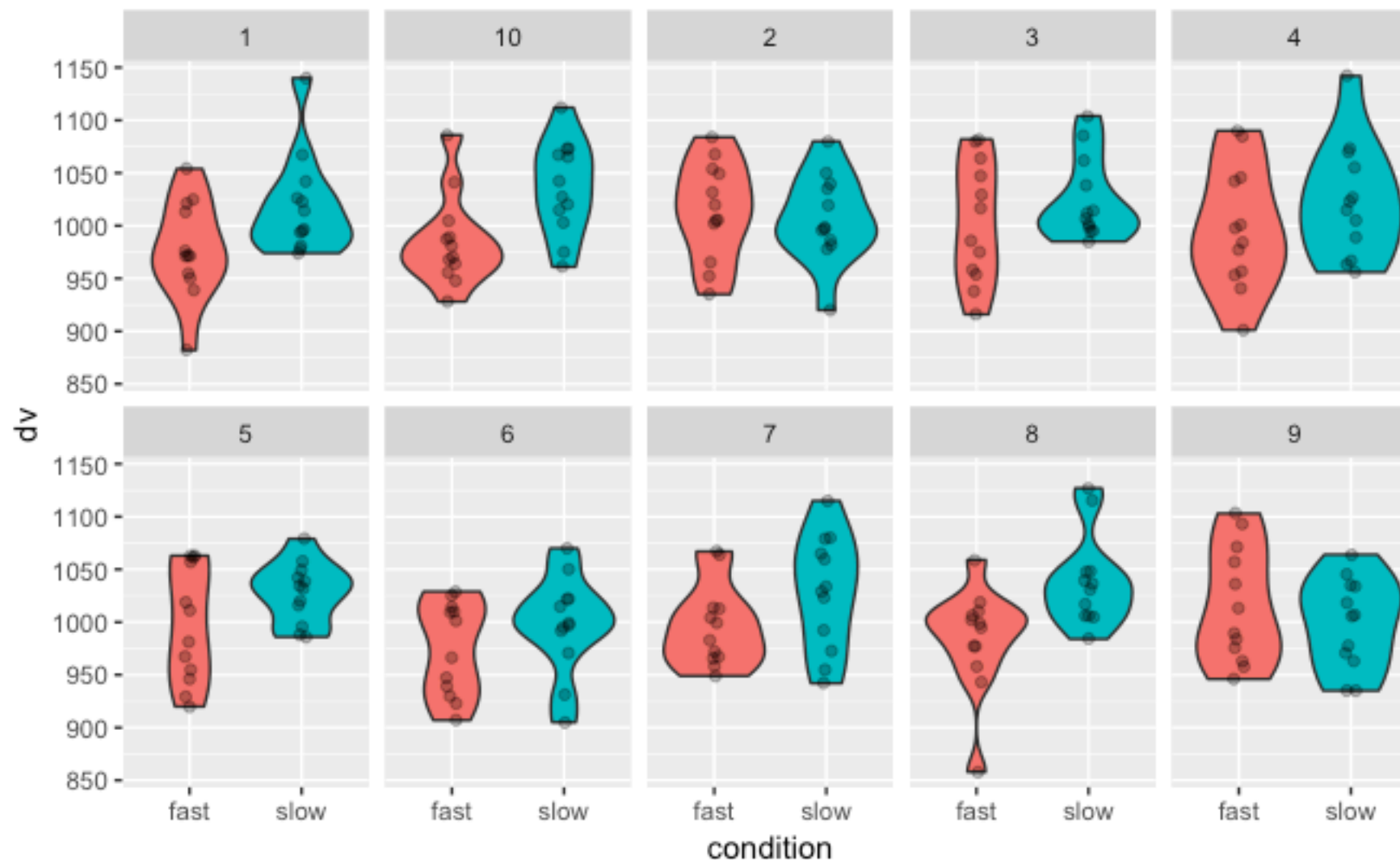
```
total_samples <- 10
sample_size <- 24
participant <- rep(1:sample_size)
condition <- c(rep("fast", times = sample_size/2), rep("slow", times =
sample_size/2))
all_data <- NULL

for (i in 1:total_samples) {
  sample <- i
  set.seed(1233 + i)
  dv <- c(rnorm(sample_size/2, 1000, 50), rnorm(sample_size/2, 1020,
50))
  data <- as.tibble(cbind(participant, condition, dv, sample))
  all_data <- rbind(data, all_data)
}

all_data$condition <- as.factor(all_data$condition)

all_data$dv <- as.integer(all_data$dv)
```

```
ggplot(all_data, aes(x = condition, y = dv, fill = condition)) +
  geom_violin() + geom_jitter(alpha = .3, width = .05) +
  guides(fill = FALSE) + facet_wrap(~sample, ncol = 5, nrow = 2)
```



```
> str(all_data)
Classes 'tbl_df', 'tbl' and 'data.frame': 240 obs. of 4 variables:
 $ participant: chr "1" "2" "3" "4" ...
 $ condition : Factor w/ 2 levels "fast","slow": 1 1 1 1 1 1 1 1 1 1 ...
 $ dv : int 981 948 964 1041 989 970 956 968 1086 928 ...
 $ sample : chr "10" "10" "10" "10" ...
```