

Guided Exercise 9 - Classification

Gloria Grace

Setup

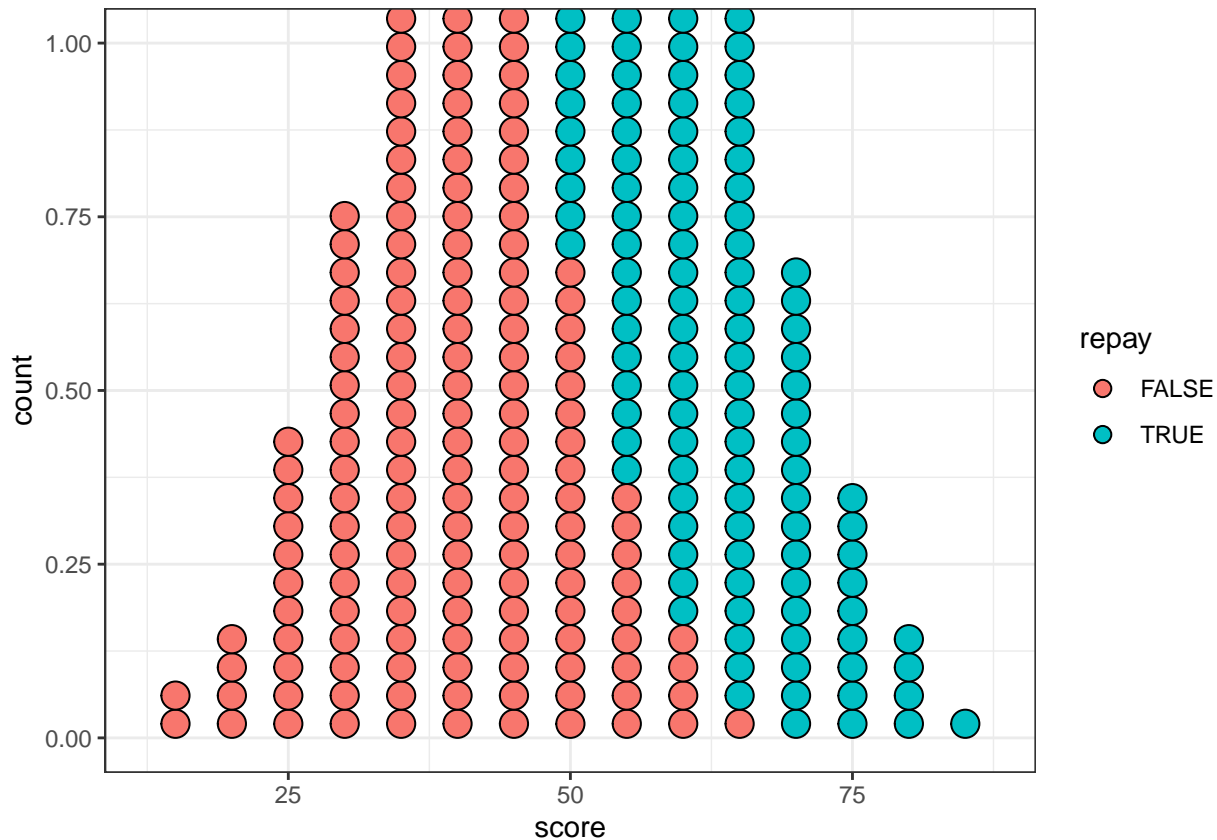
Construct the set of people, some who will repay and others who will not.

```
# "Deterministic normal": we expect n * pnorm(x, mu, sd) of n points to be below x.
make_group <- function(n, mean, sd, ...) {
  tibble(score = 0:100) %>%
    mutate(n = floor(n * pnorm(score, mean, sd))) %>%
    mutate(delta = c(diff(n), 0)) %>%
    uncount(delta) %>%
    select(score) %>%
    mutate(...)
}

people <- bind_rows(
  make_group(150, 60, 10, repay = TRUE),
  make_group(150, 40, 10, repay = FALSE)
)
```

Make a dotplot of the people.

```
ggplot(people, aes(x = score, fill = repay)) +
  geom_dotplot(binwidth = 5, dotsize = .5,
    binpositions = "all", method = "histodot", stackgroups = TRUE)
```



Exercise 1

```
decisions <- people %>%  
  mutate(granted = )
```

Exercise 2

Exercise 3

Exercise 4

Exercise 5