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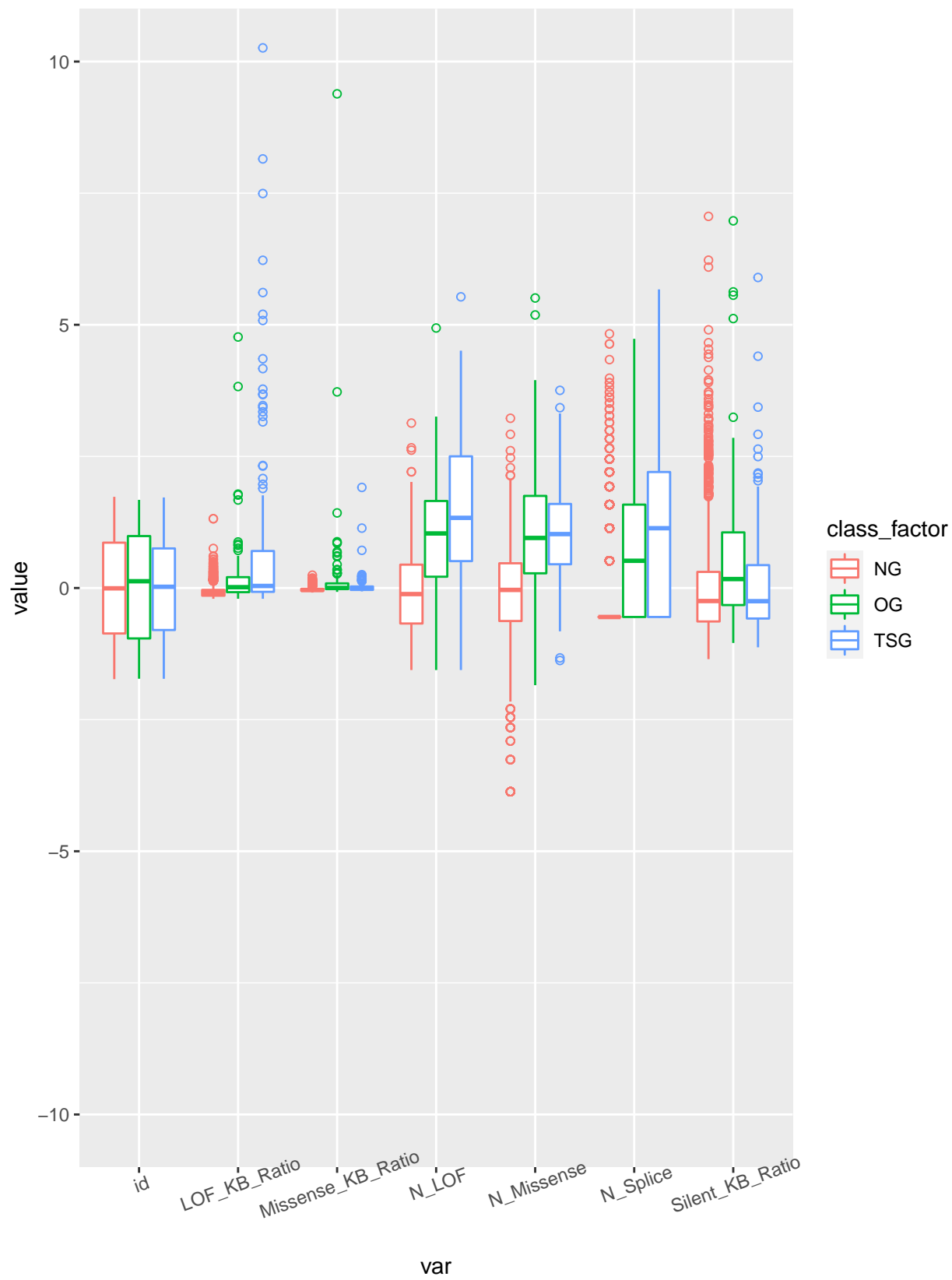
source("clean_training_v2.R")

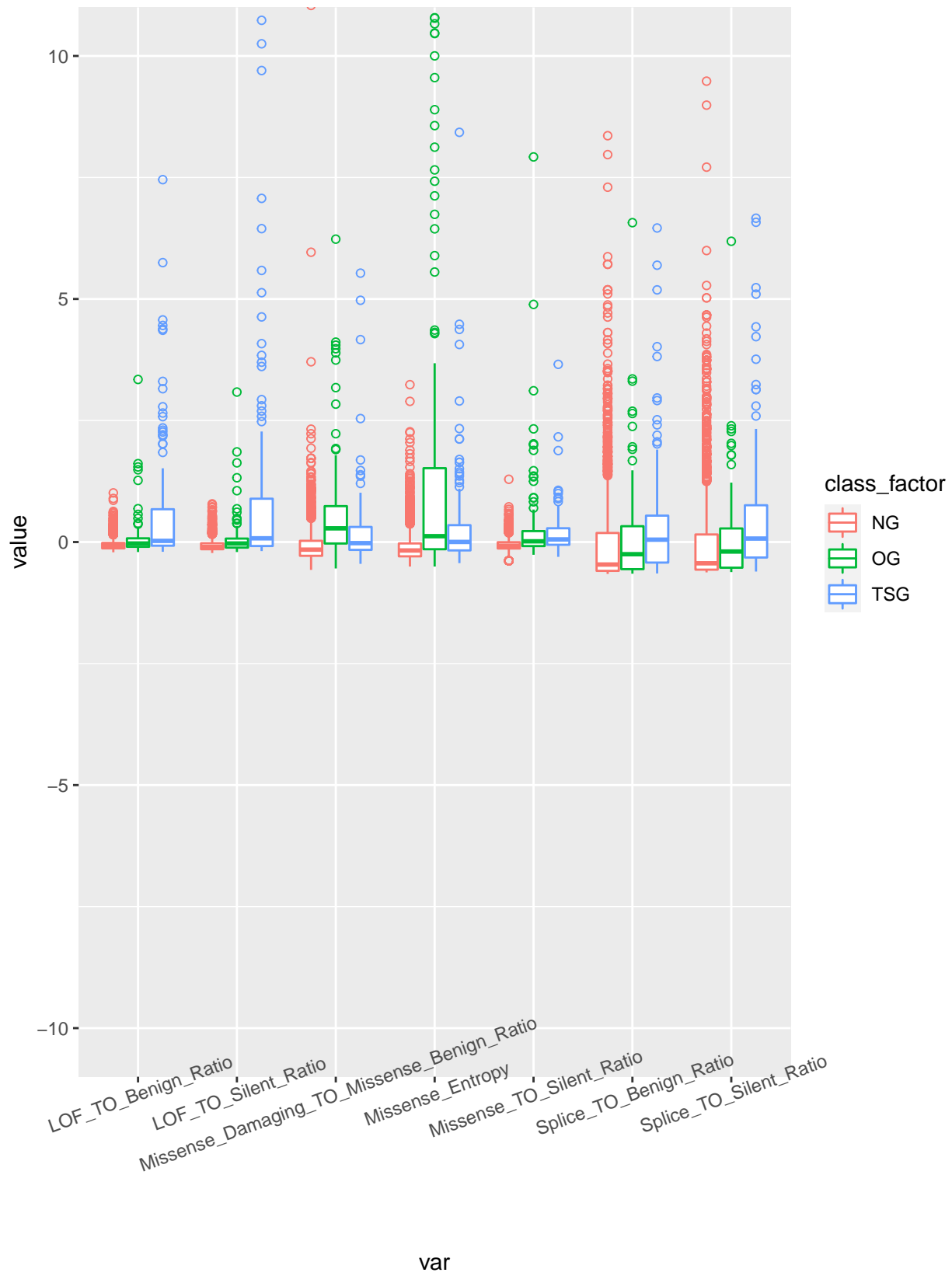
library(ggplot2)

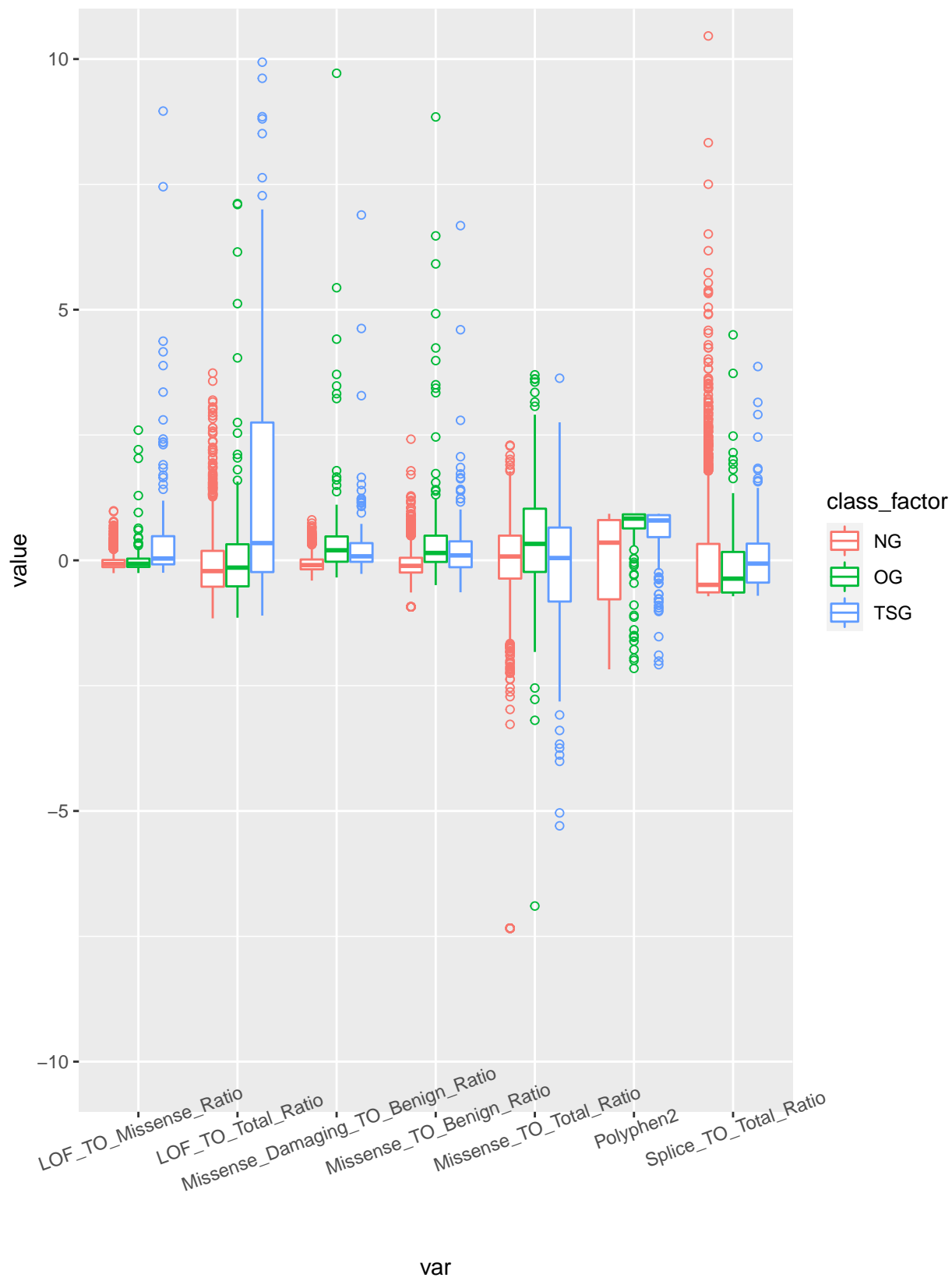
# Box plots of each variable (7 per plot) split by class
for (i in seq(1, ncol(training0) - 2, by = 7)) {
  # Select 7 columns plus class
  plot <- training0[, c(names(training0)[seq(i, i + 6)], "class_factor")] %>%
    # Scale and center numeric variables
    mutate_if(is.numeric, scale) %>%
    # Turns 7 columns into 2 columns: variable name and value
    gather(-class_factor, key = "var", value = "value") %>%
    ggplot(aes(x = var, y = value, color = class_factor)) +
      geom_boxplot(outlier.shape = 1) +
      theme(axis.text.x = element_text(angle = 20)) +
      coord_cartesian(ylim = c(-10, 10))

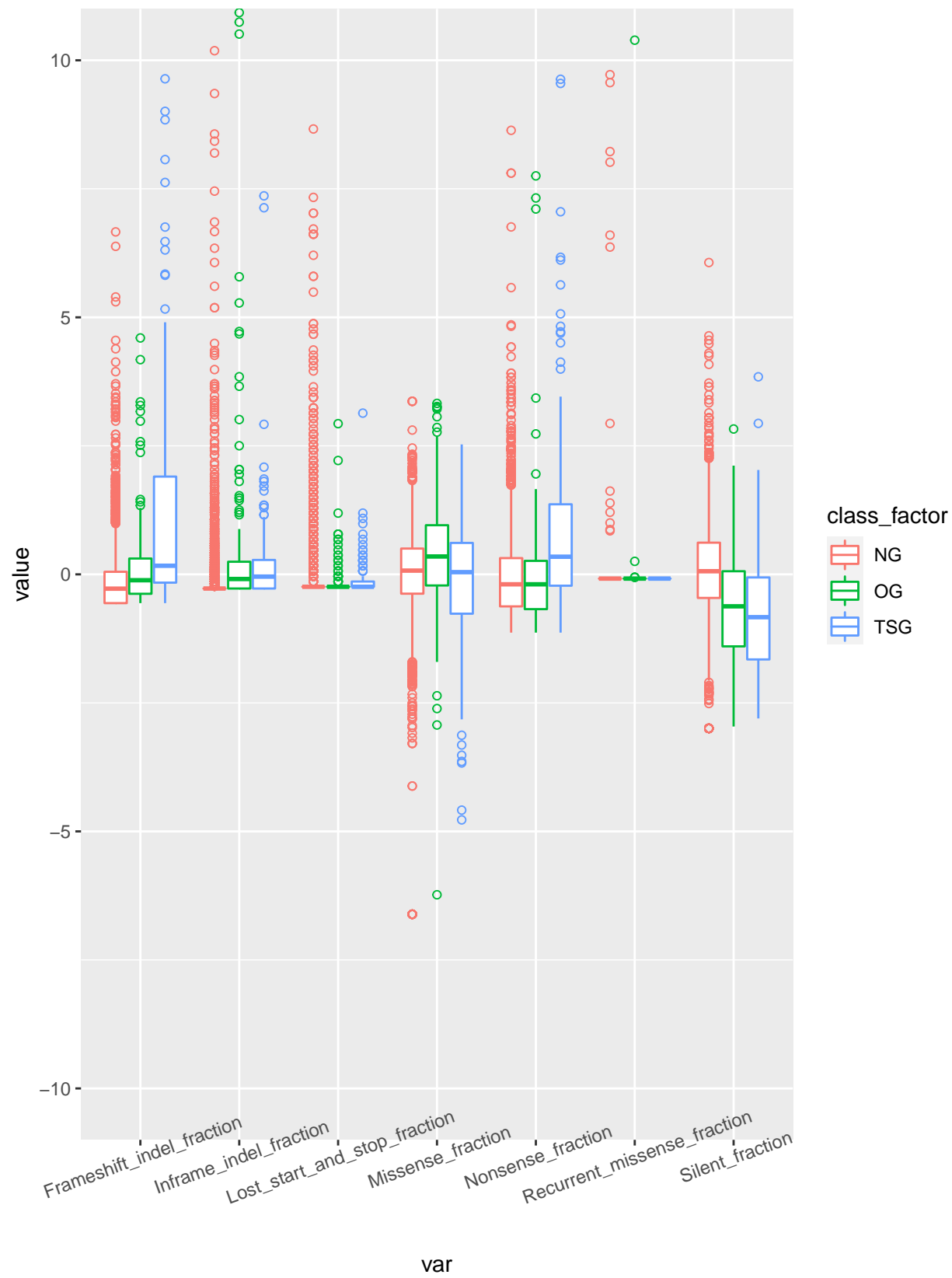
  print(plot)
}

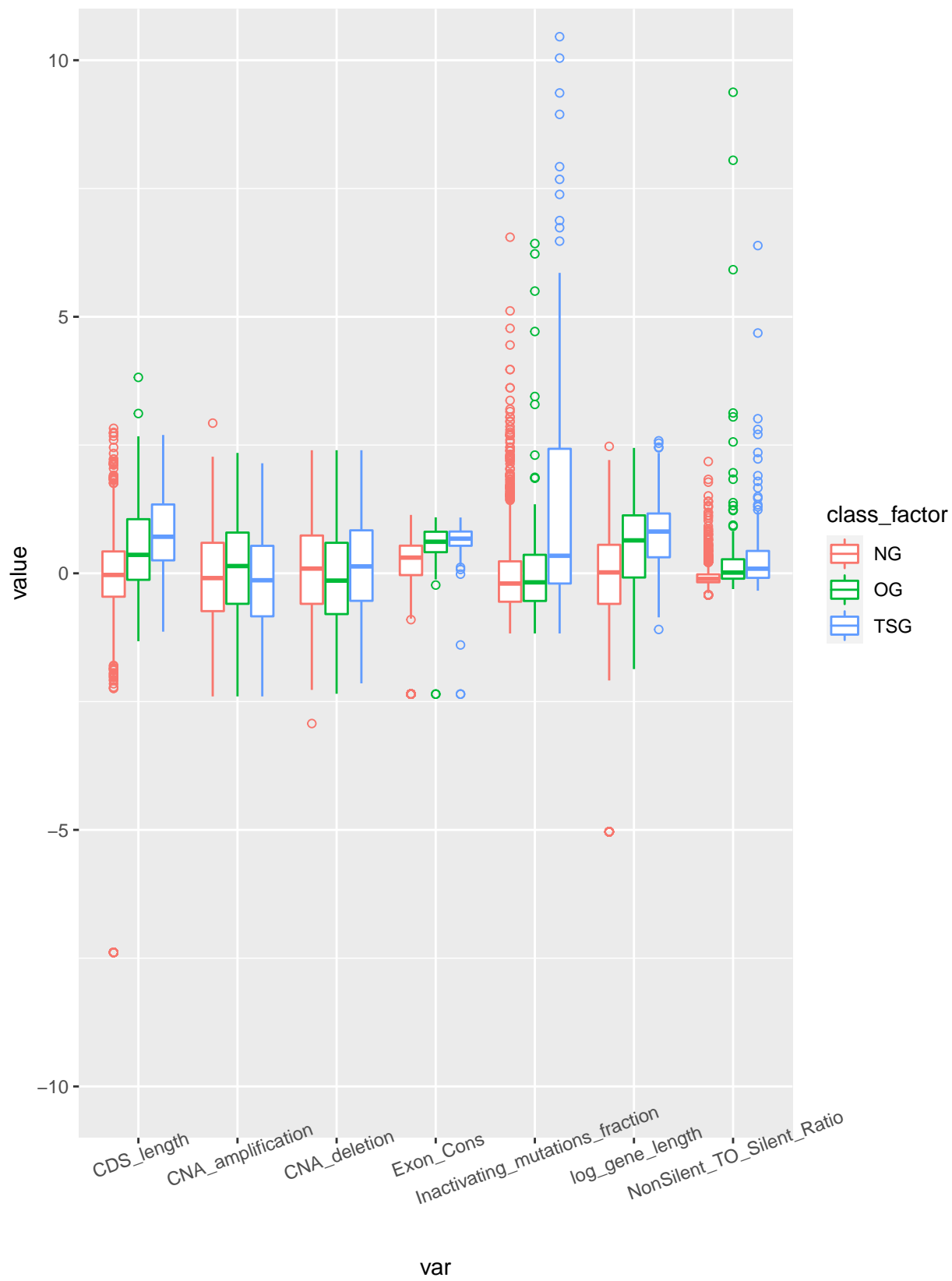
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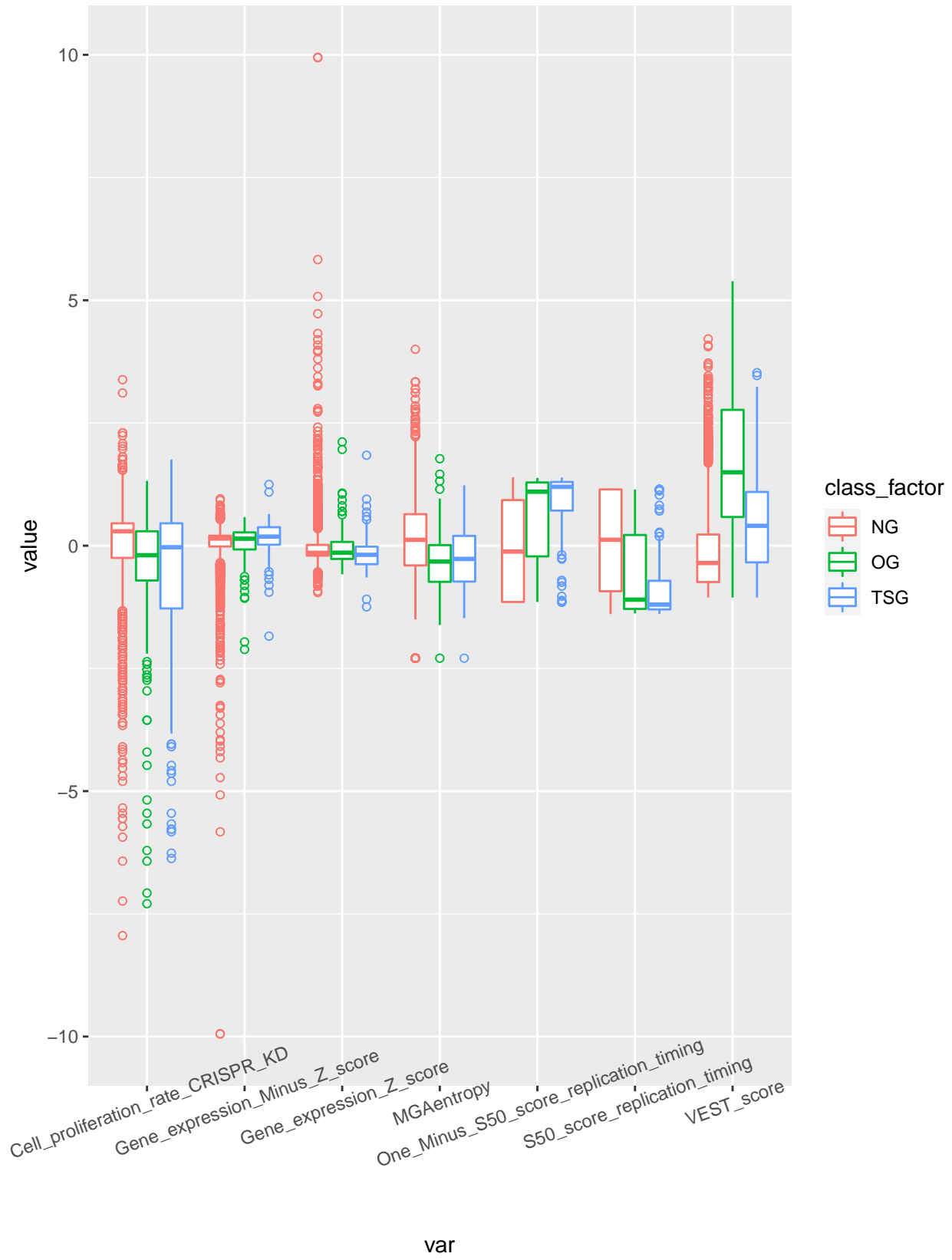


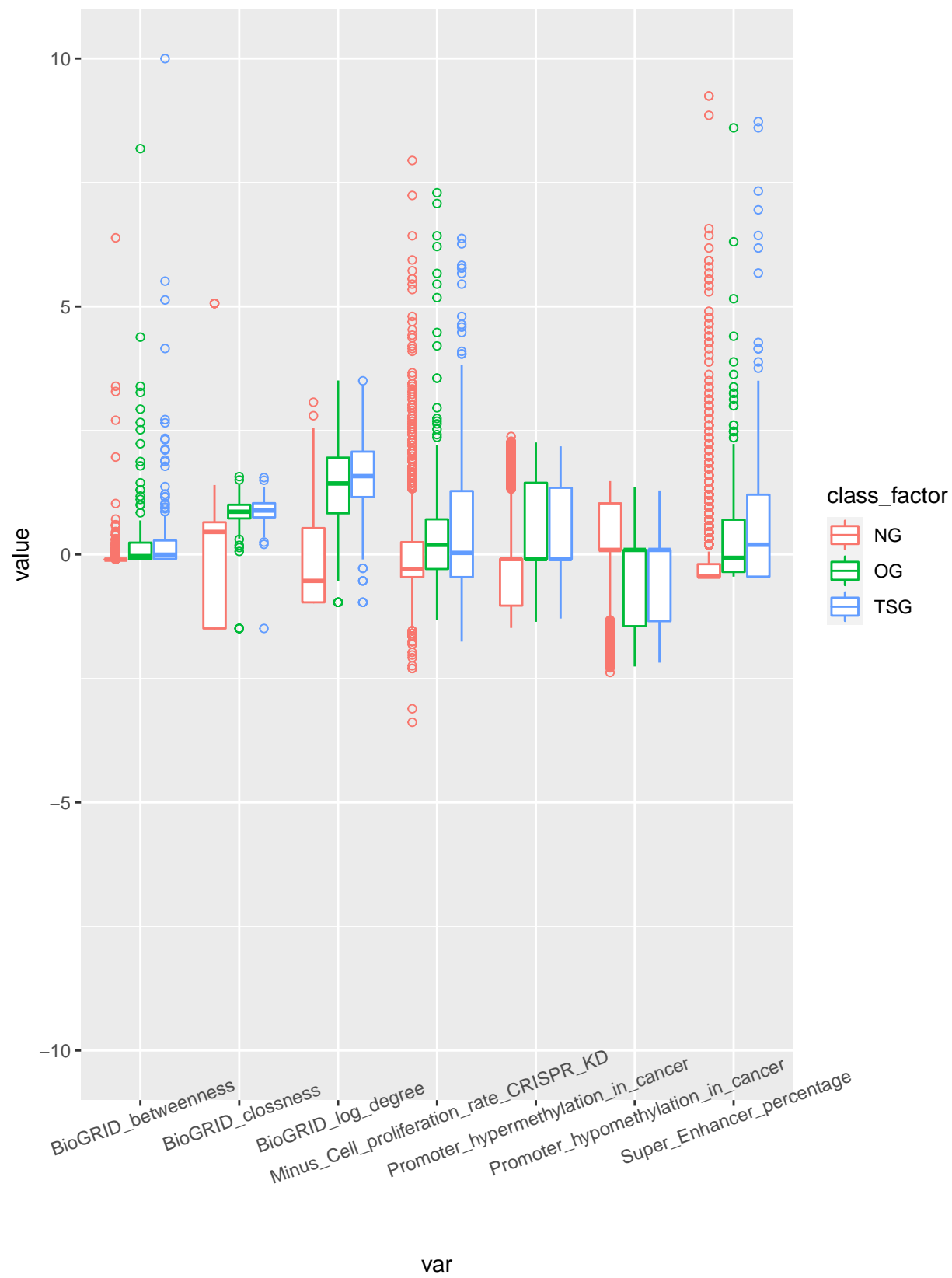


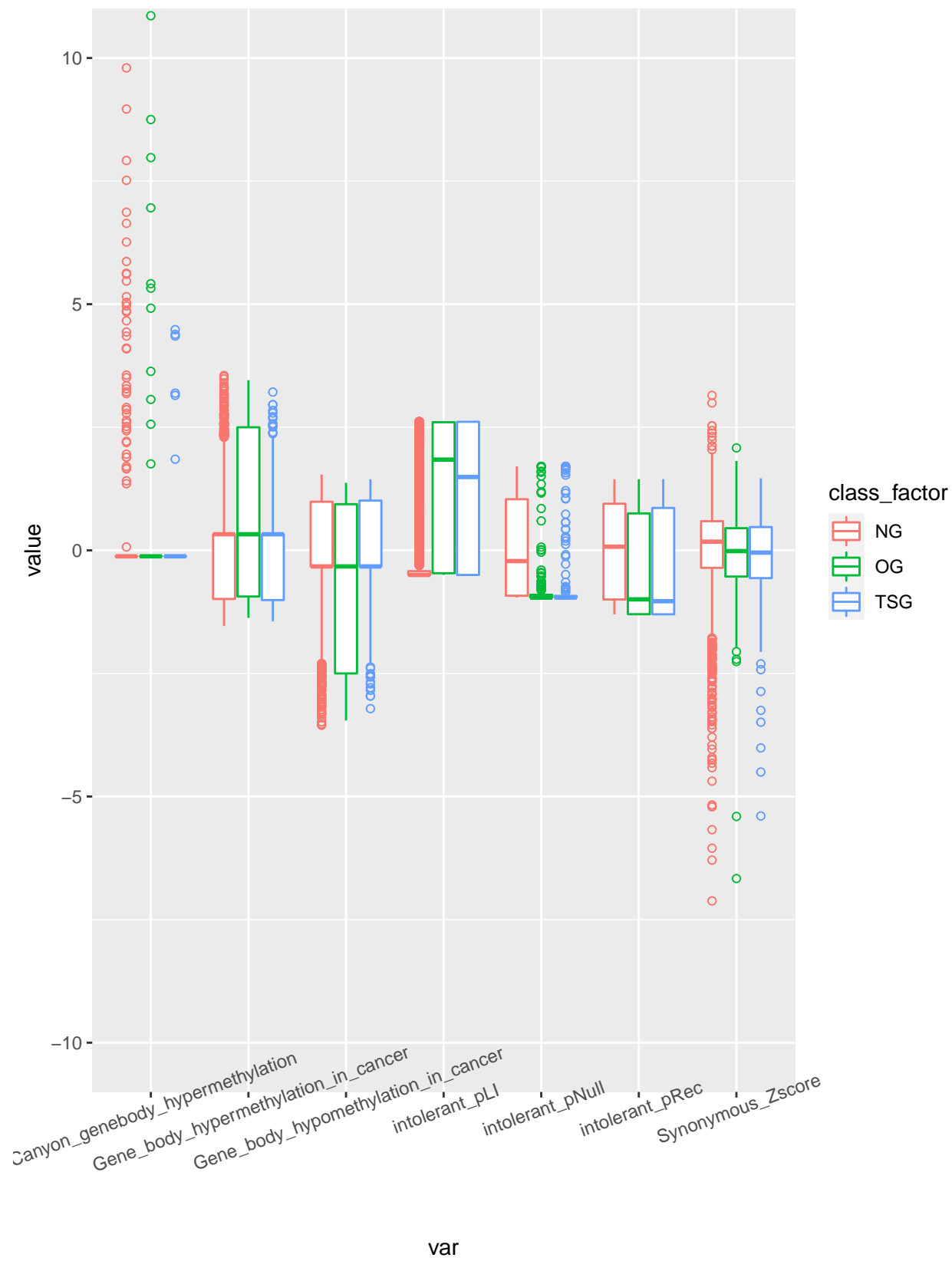


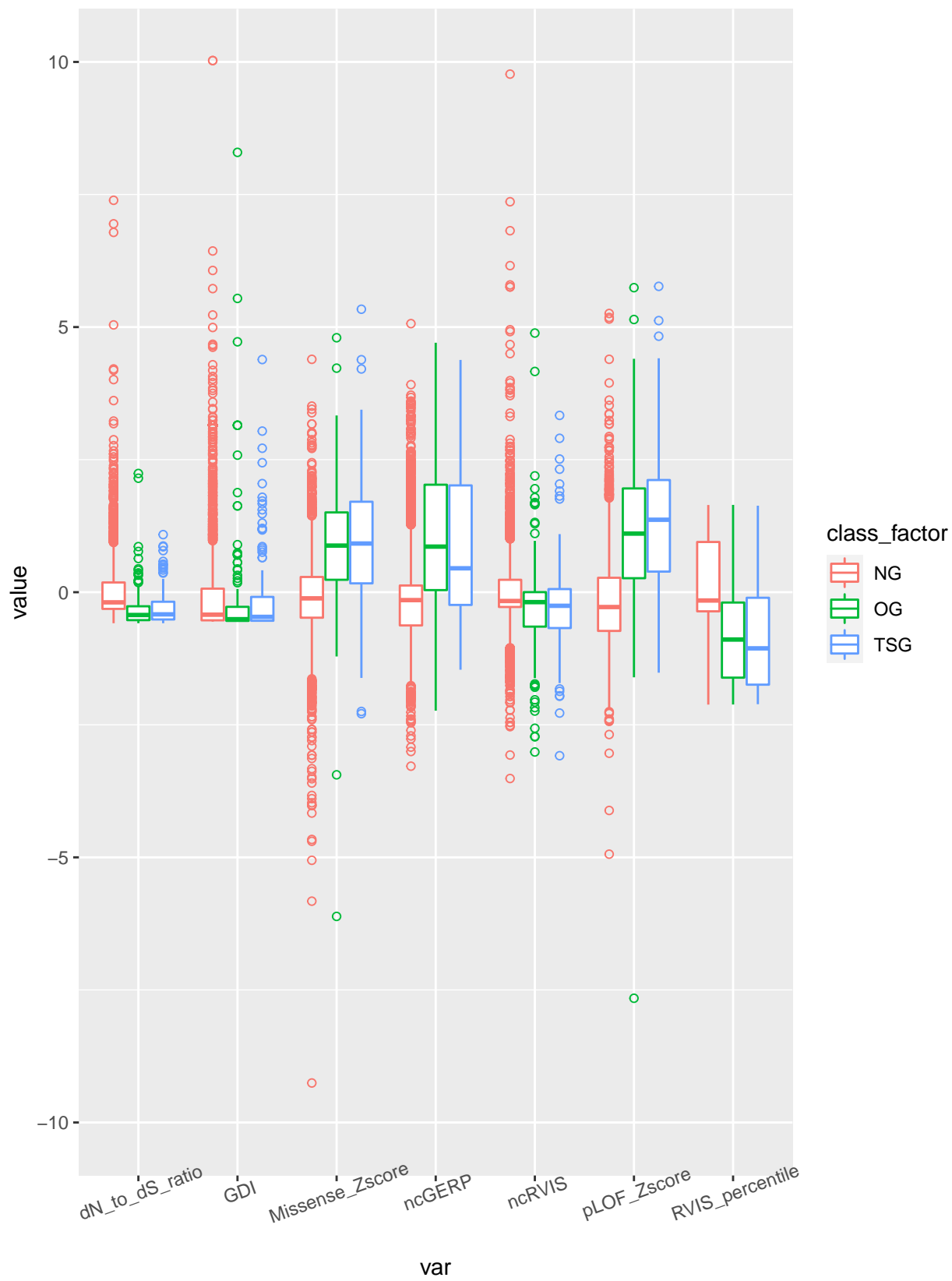


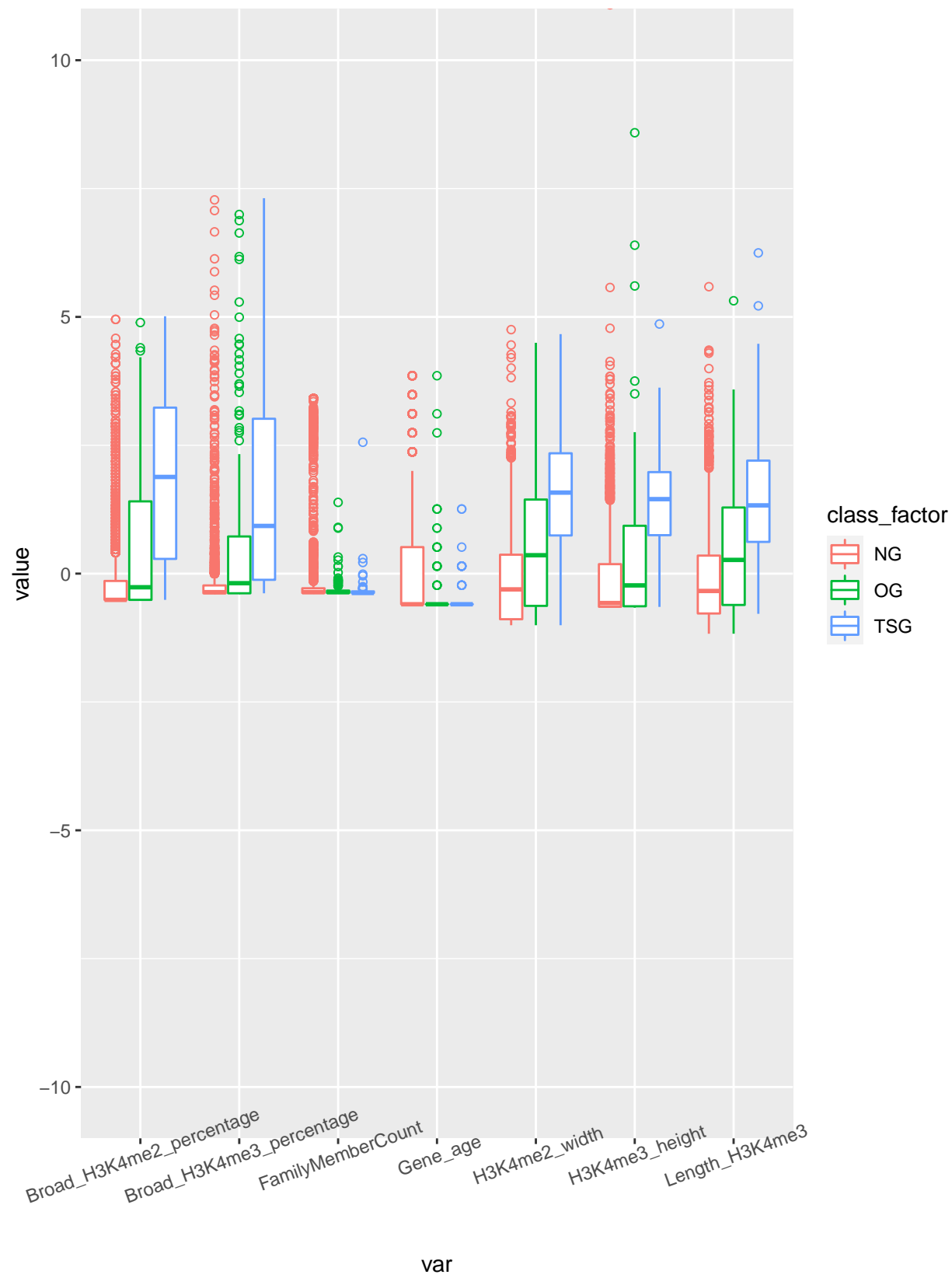


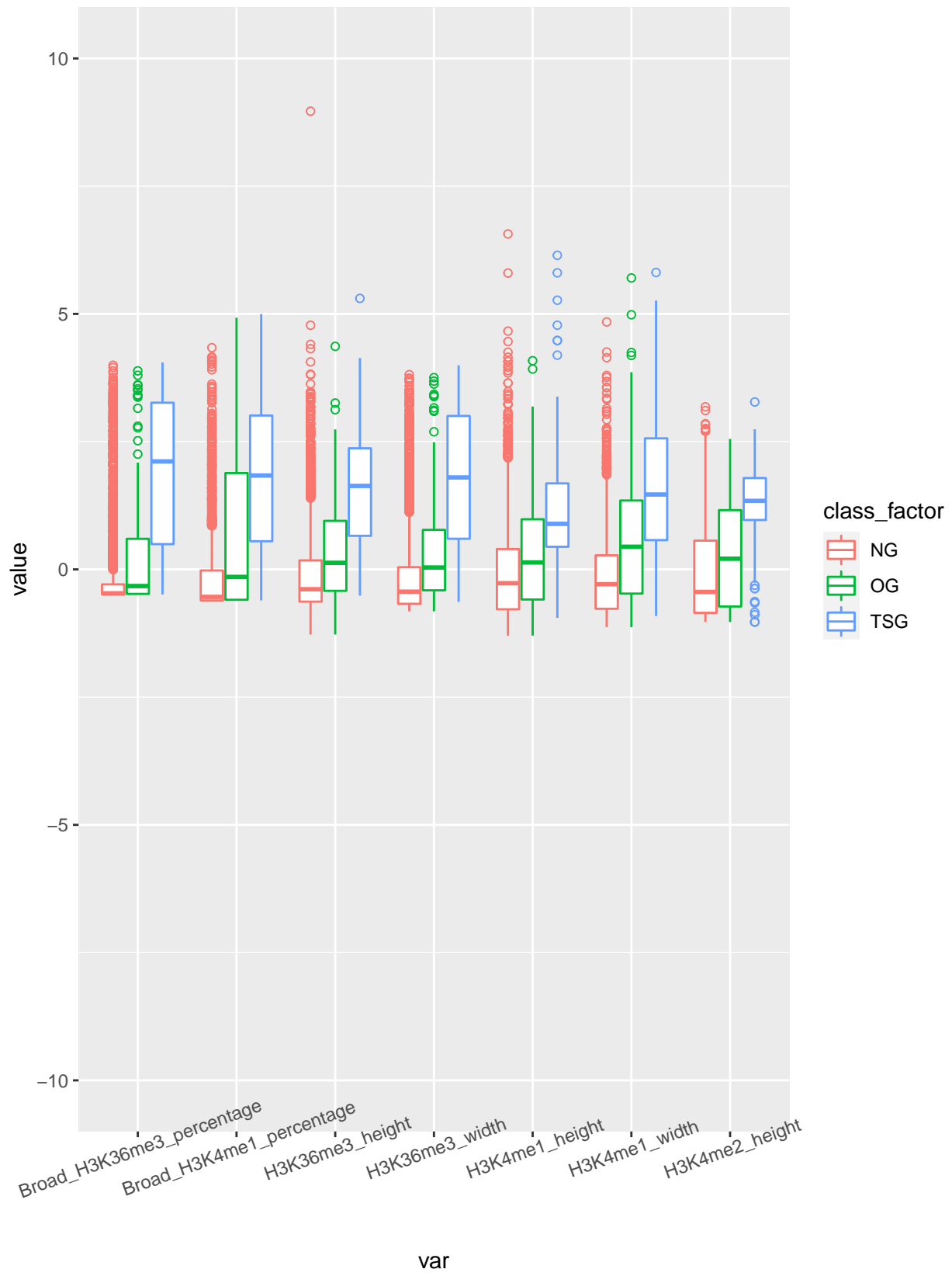


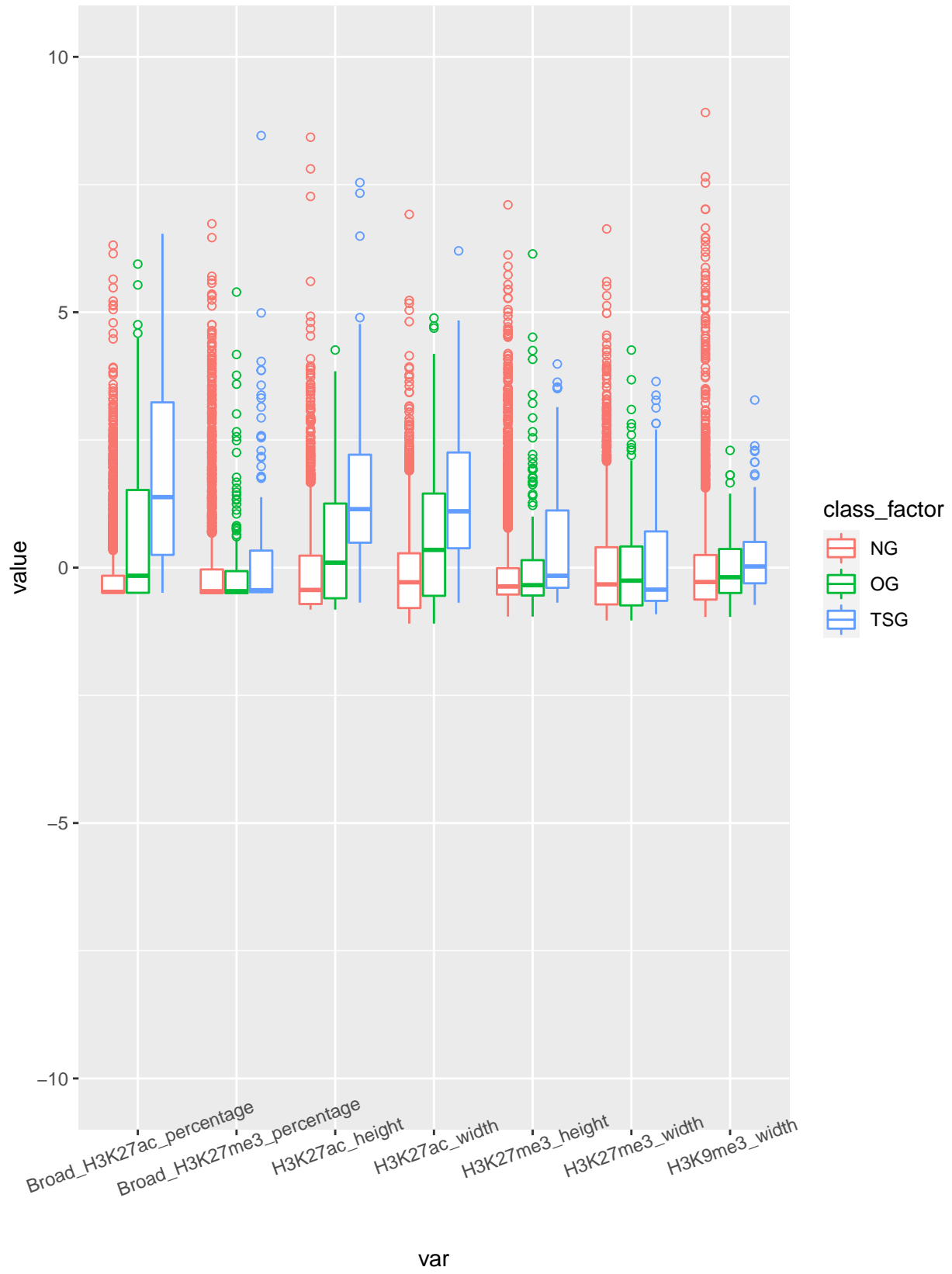


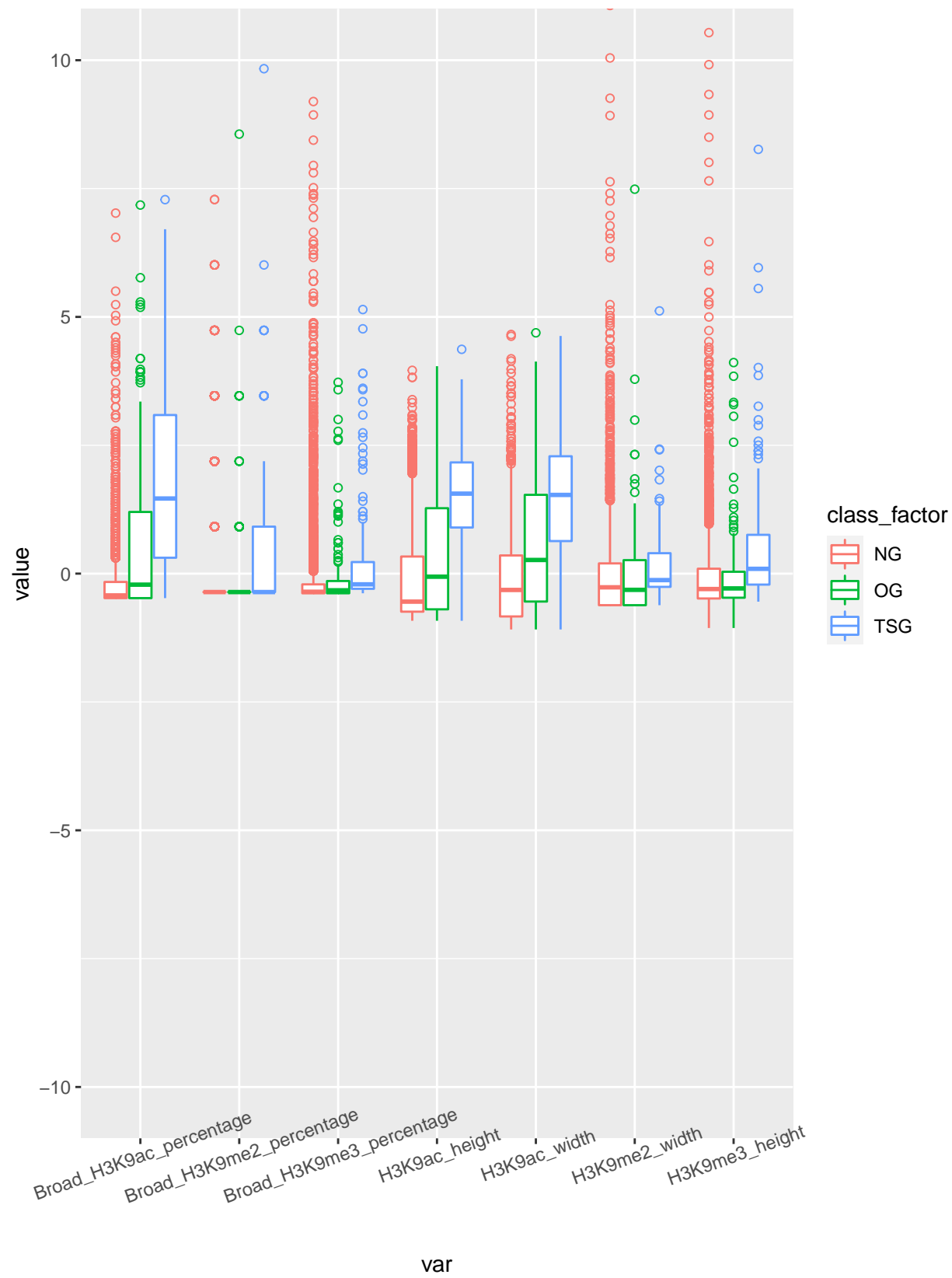


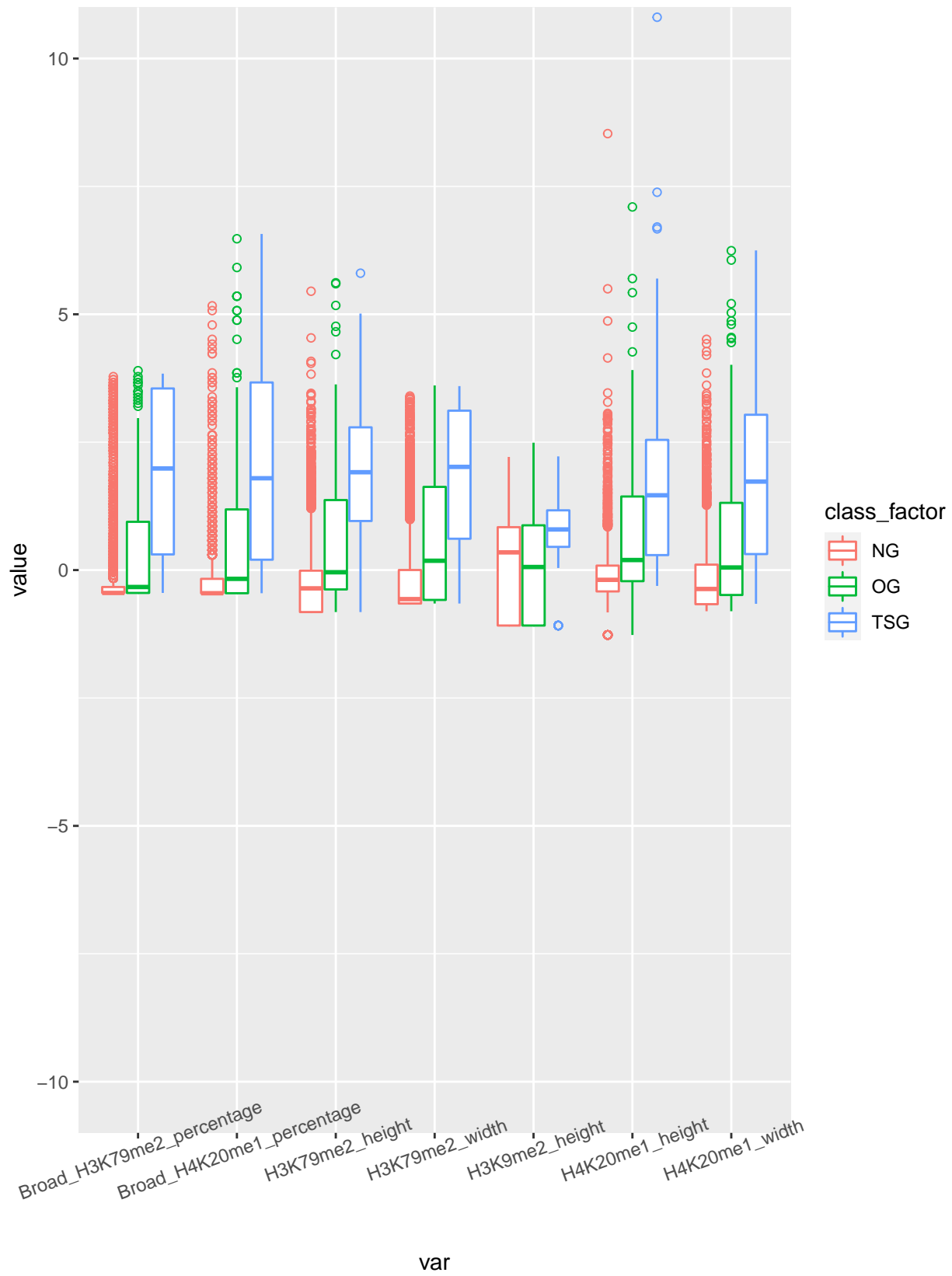










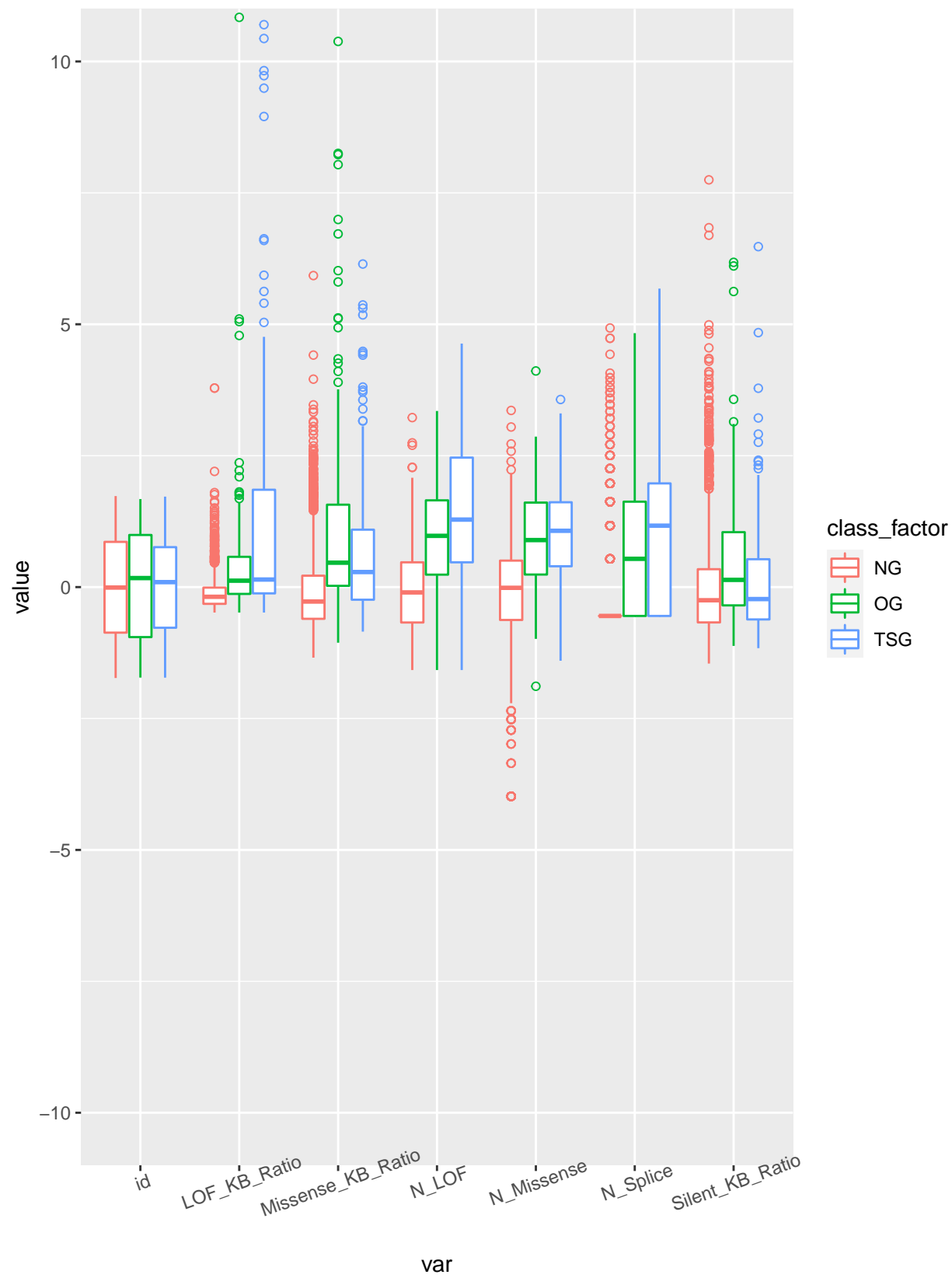


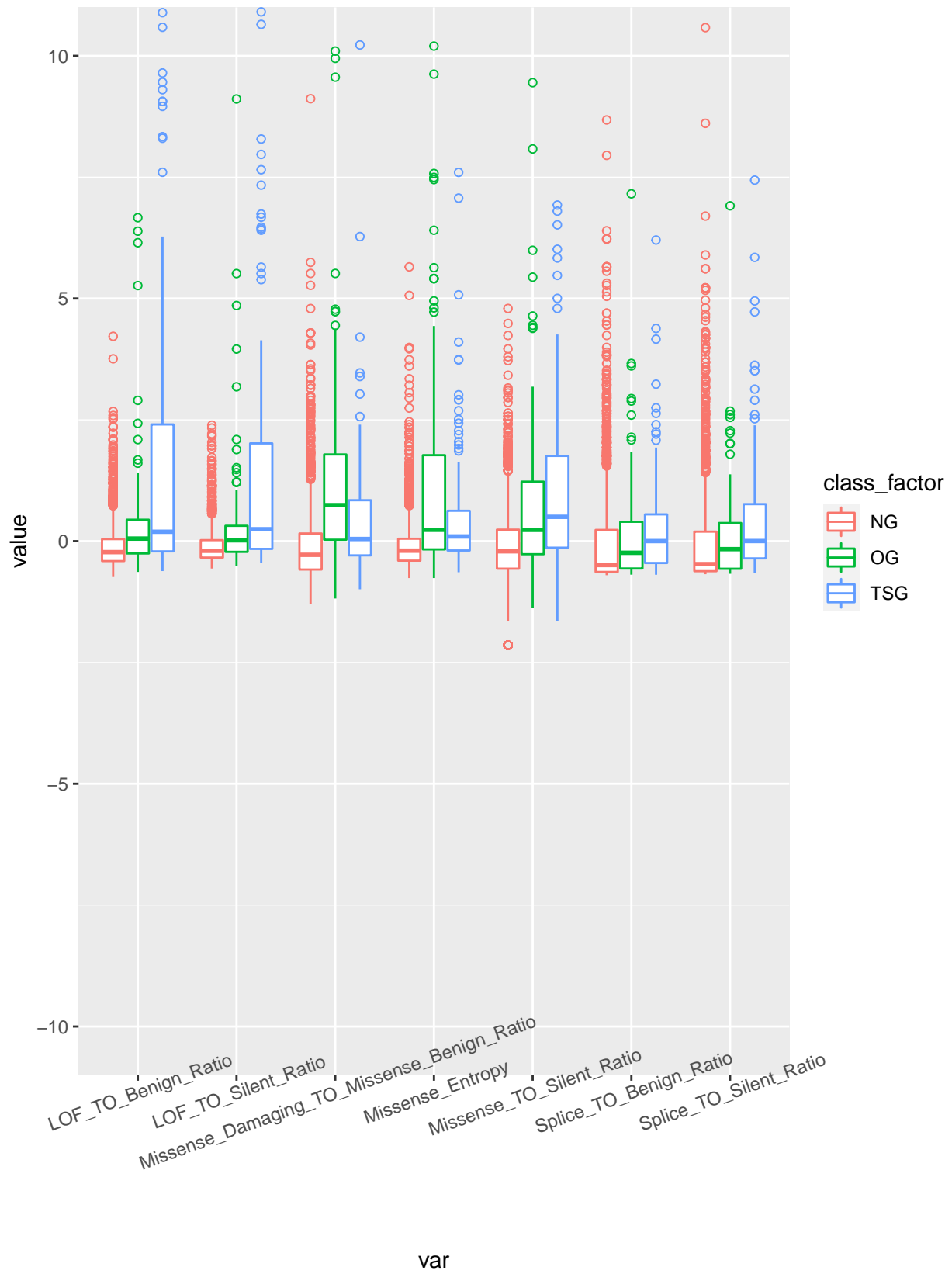
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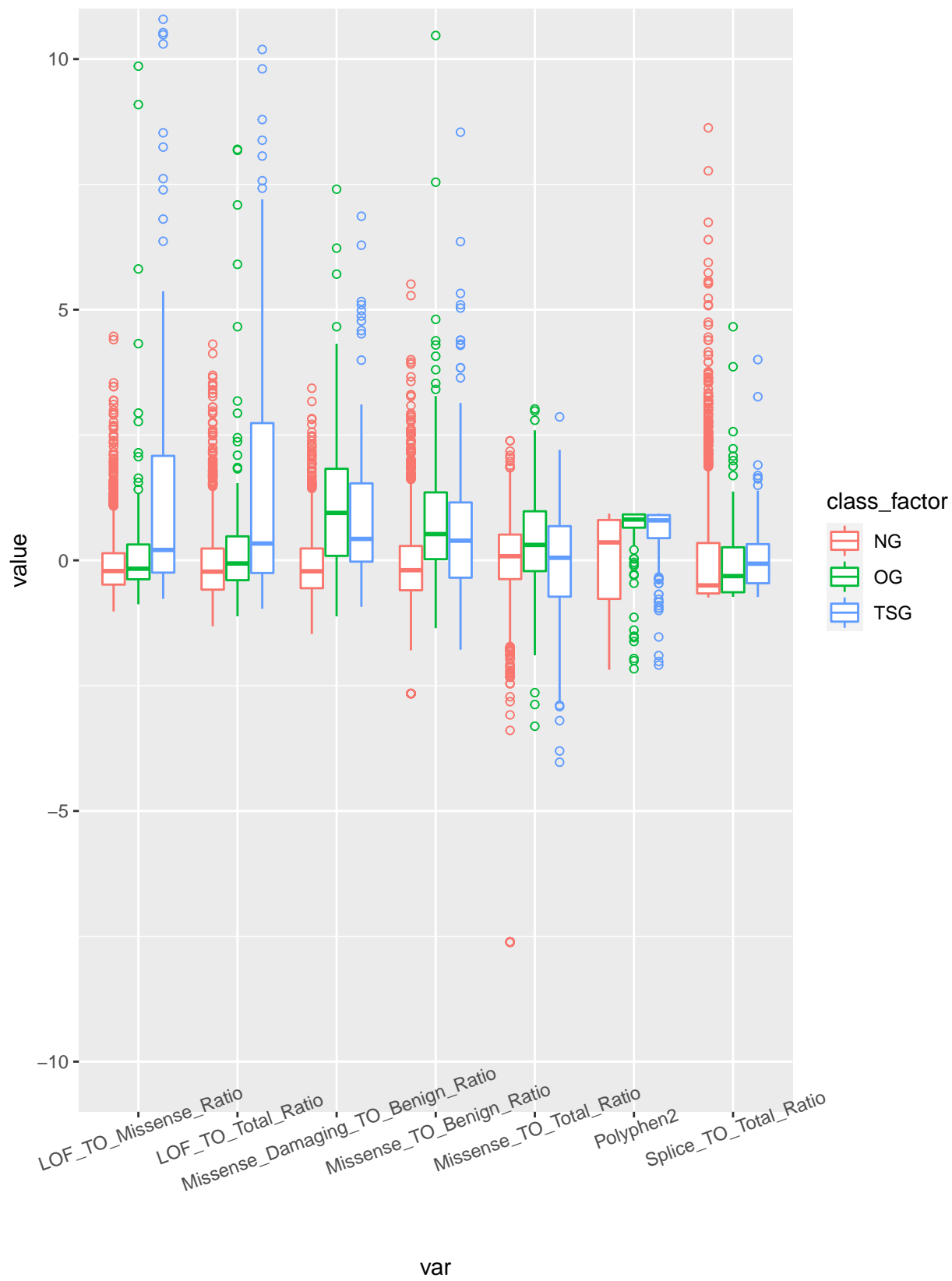
# Box plots of each variable (7 per plot) split by class
for (i in seq(1, ncol(training1) - 2, by = 7)) {
  # Select 7 columns plus class
  plot <- training1[, c(names(training1)[seq(i, i + 6)], "class_factor")] %>%
    # Scale and center numeric variables
    mutate_if(is.numeric, scale) %>%
    # Turns 7 columns into 2 columns: variable name and value
    gather(-class_factor, key = "var", value = "value") %>%
    ggplot(aes(x = var, y = value, color = class_factor)) +
      geom_boxplot(outlier.shape = 1) +
      theme(axis.text.x = element_text(angle = 20)) +
      coord_cartesian(ylim = c(-10, 10))

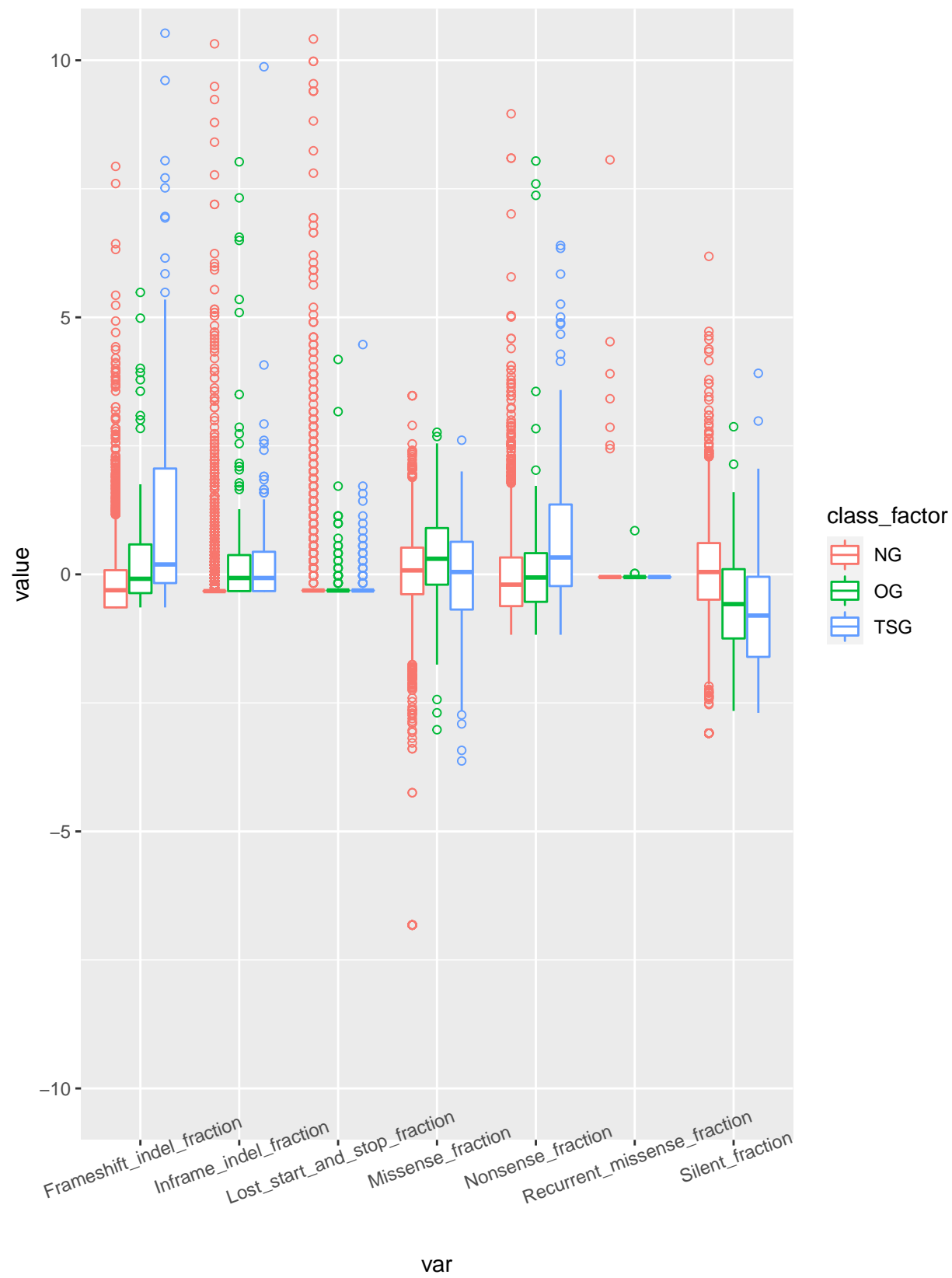
  print(plot)
}

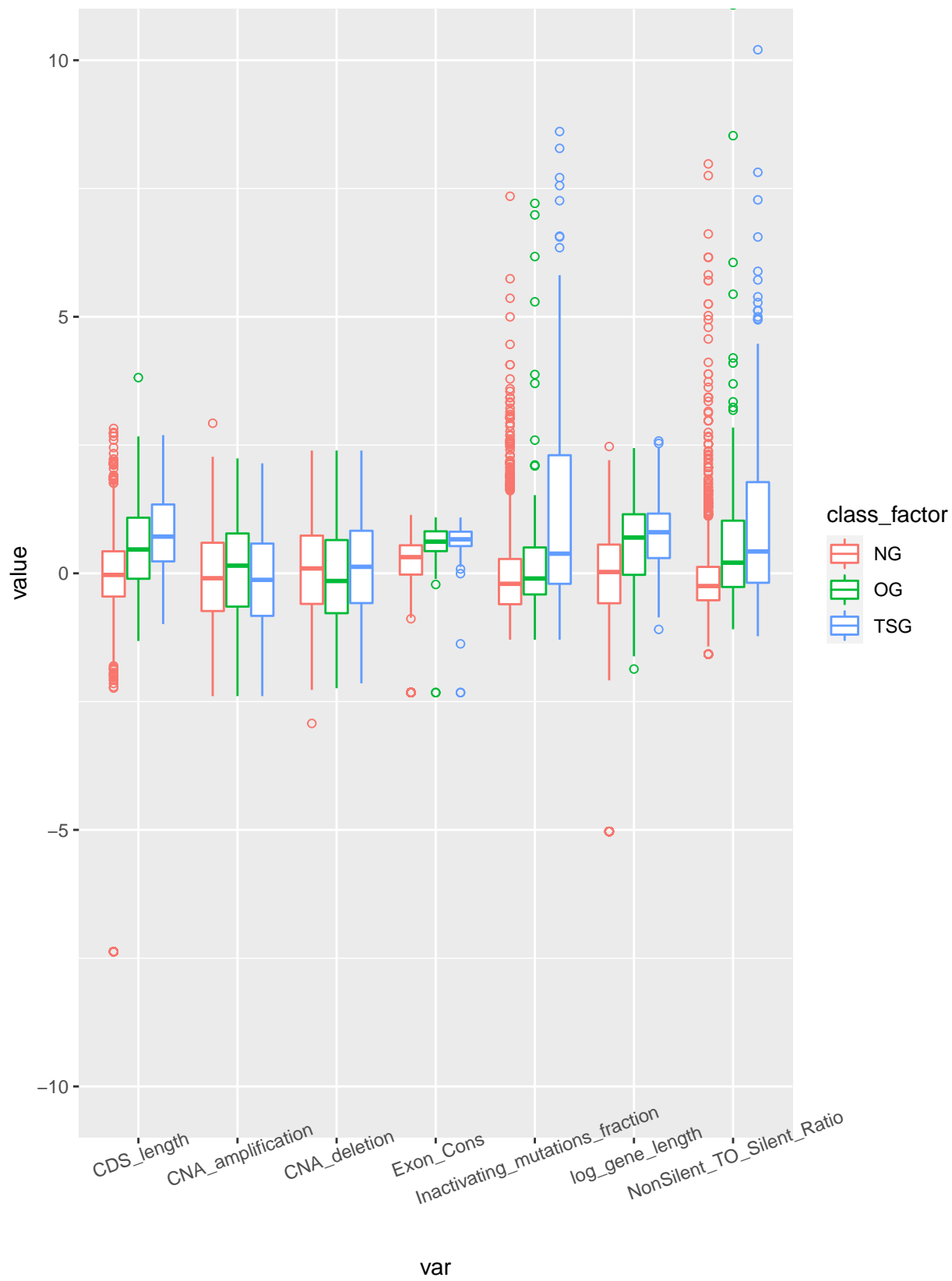
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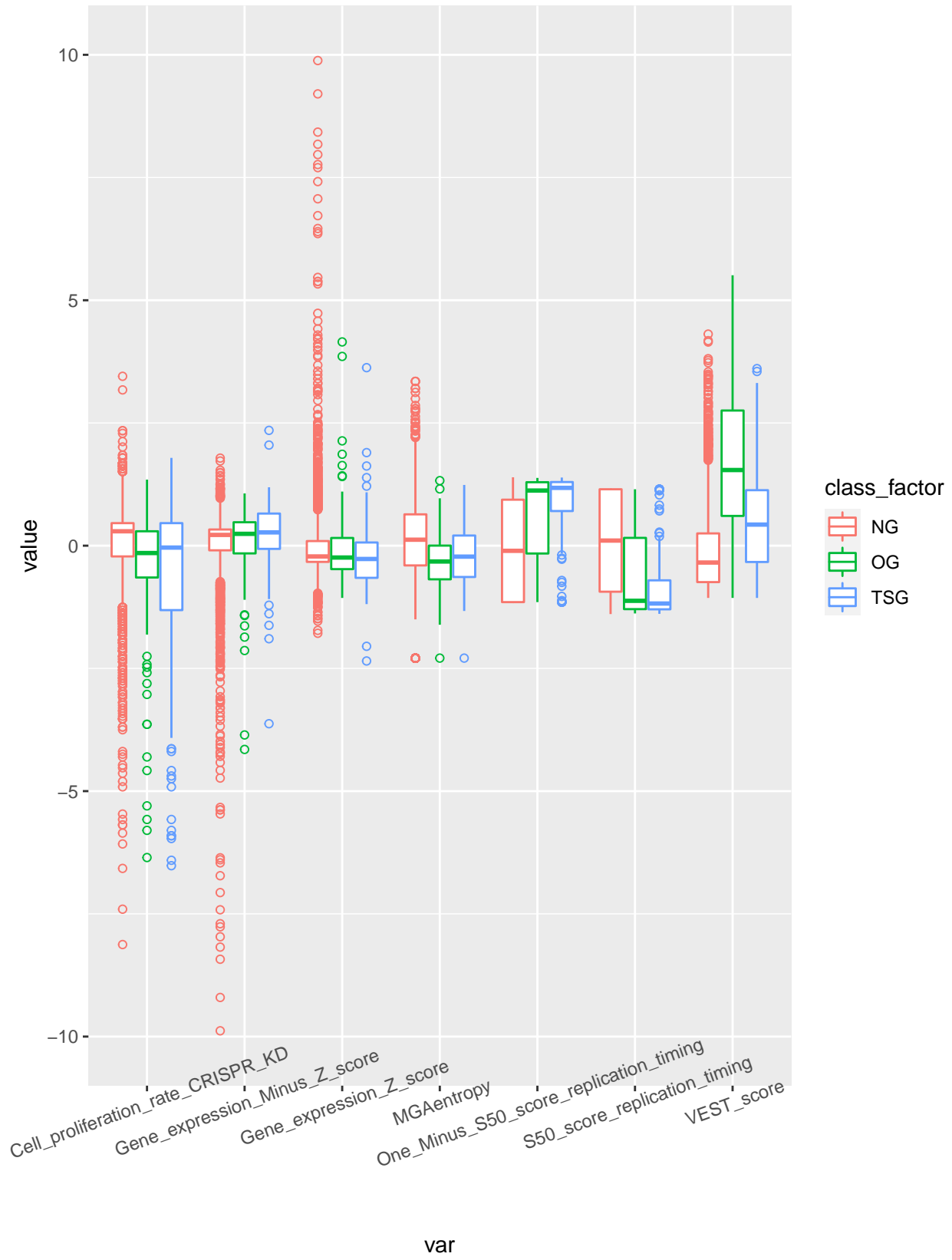



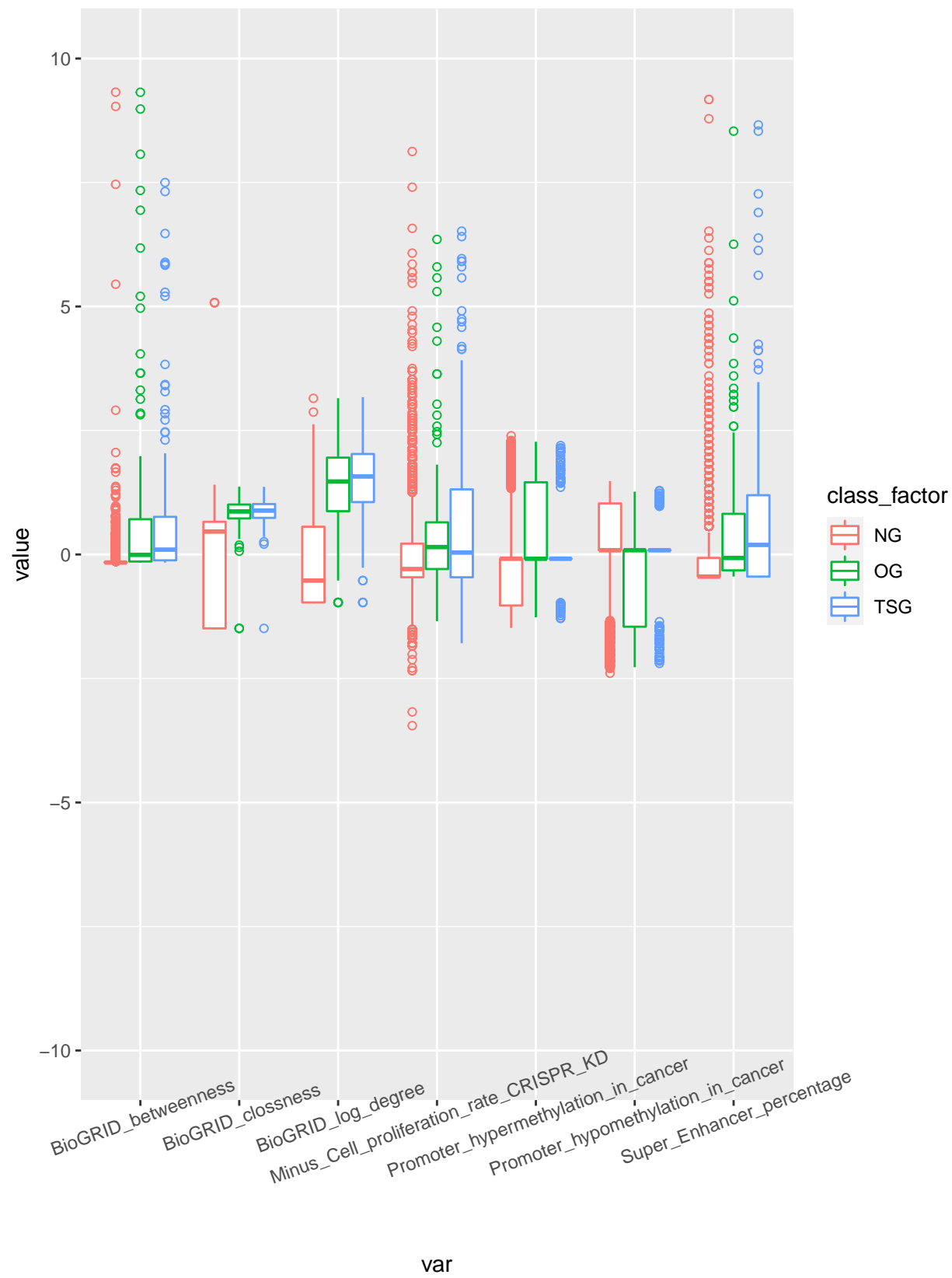


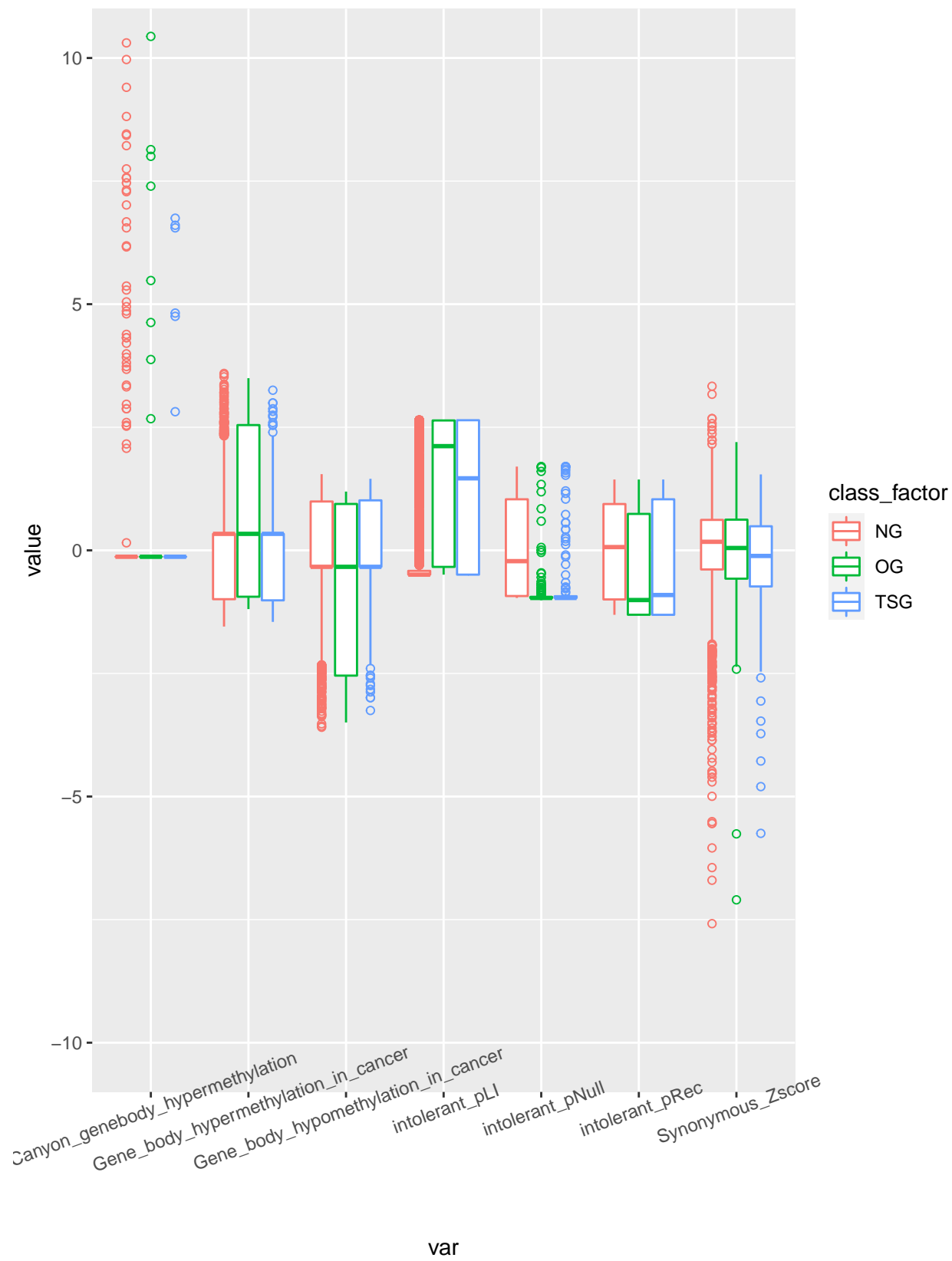


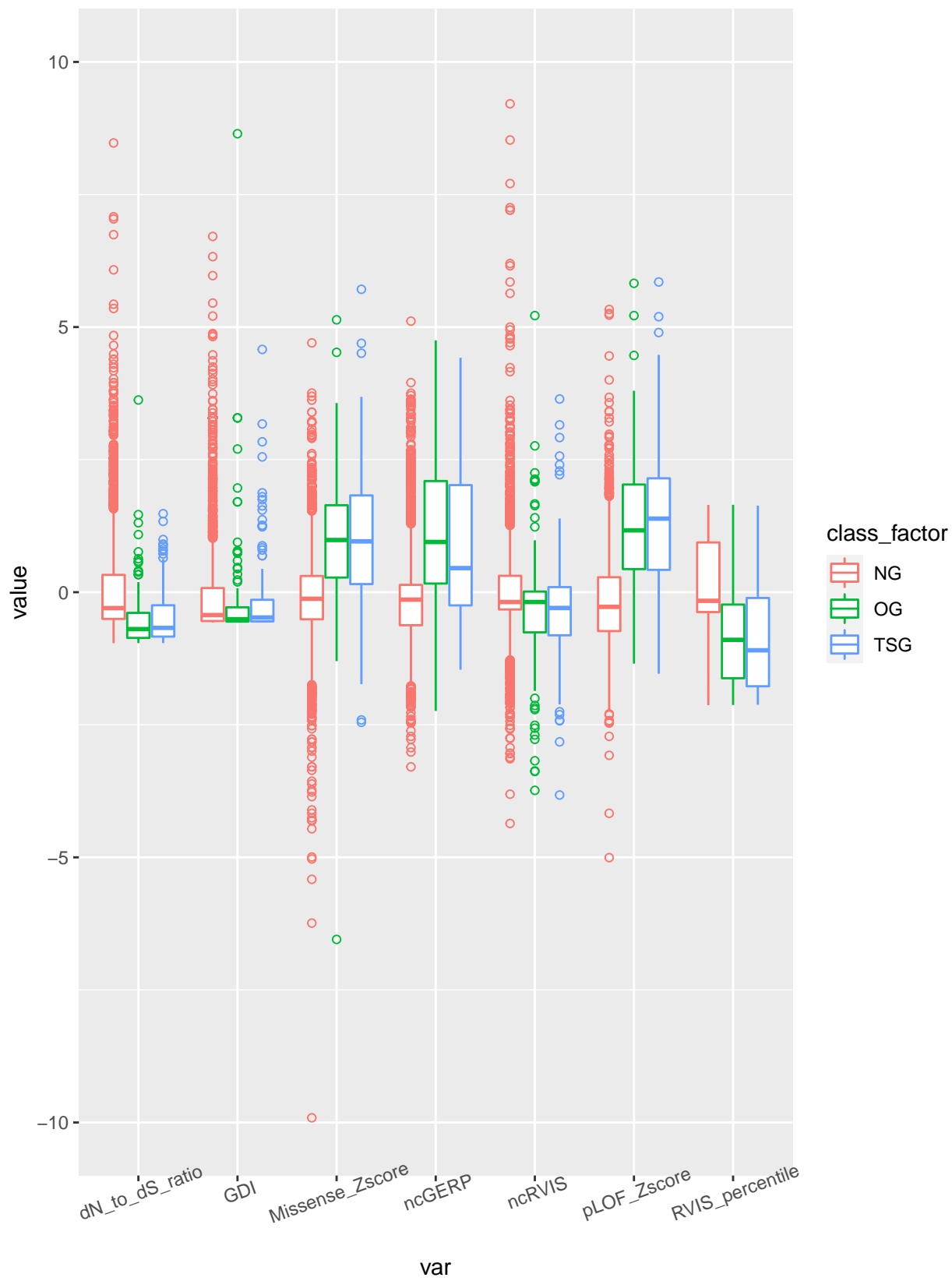


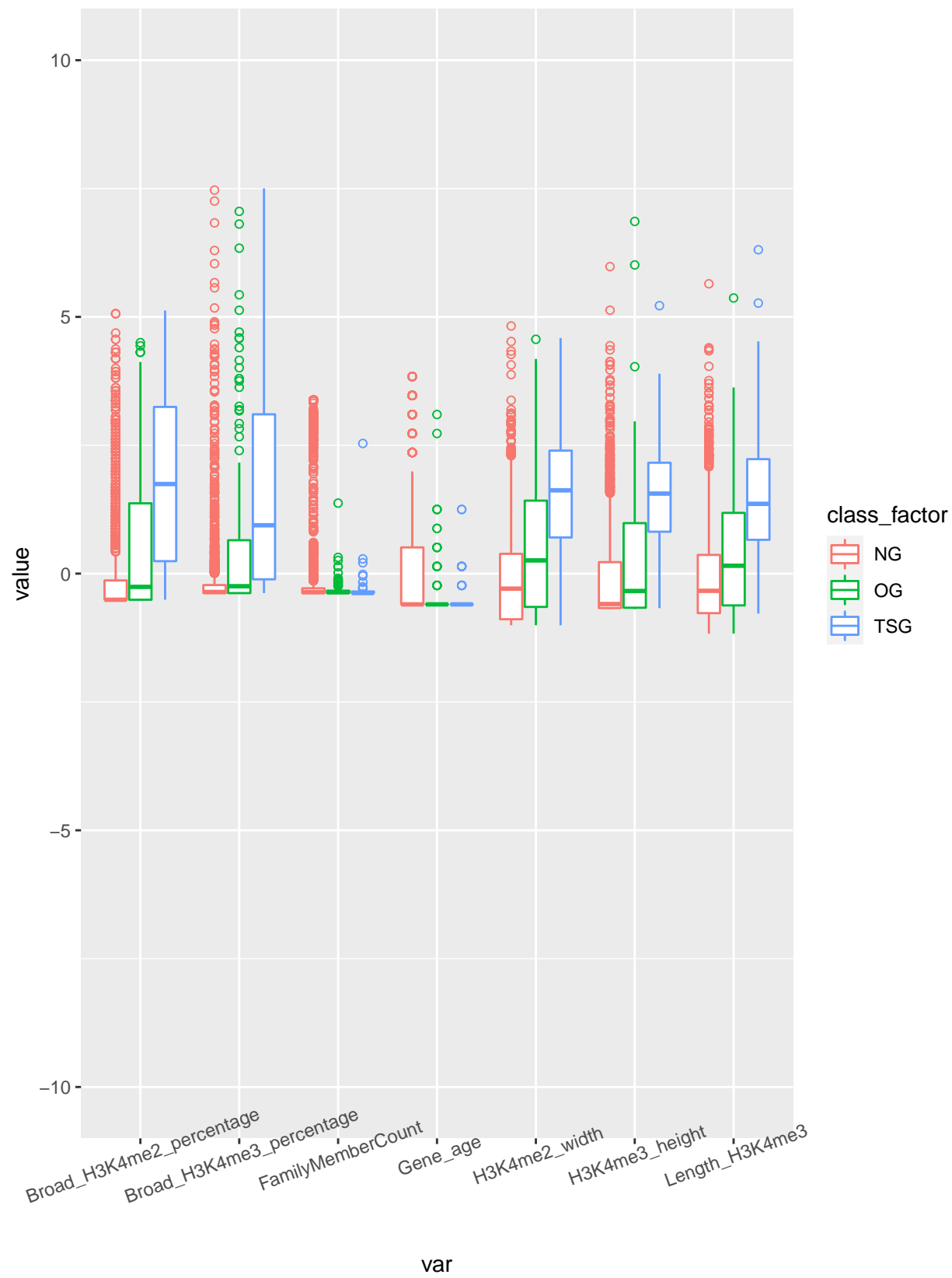


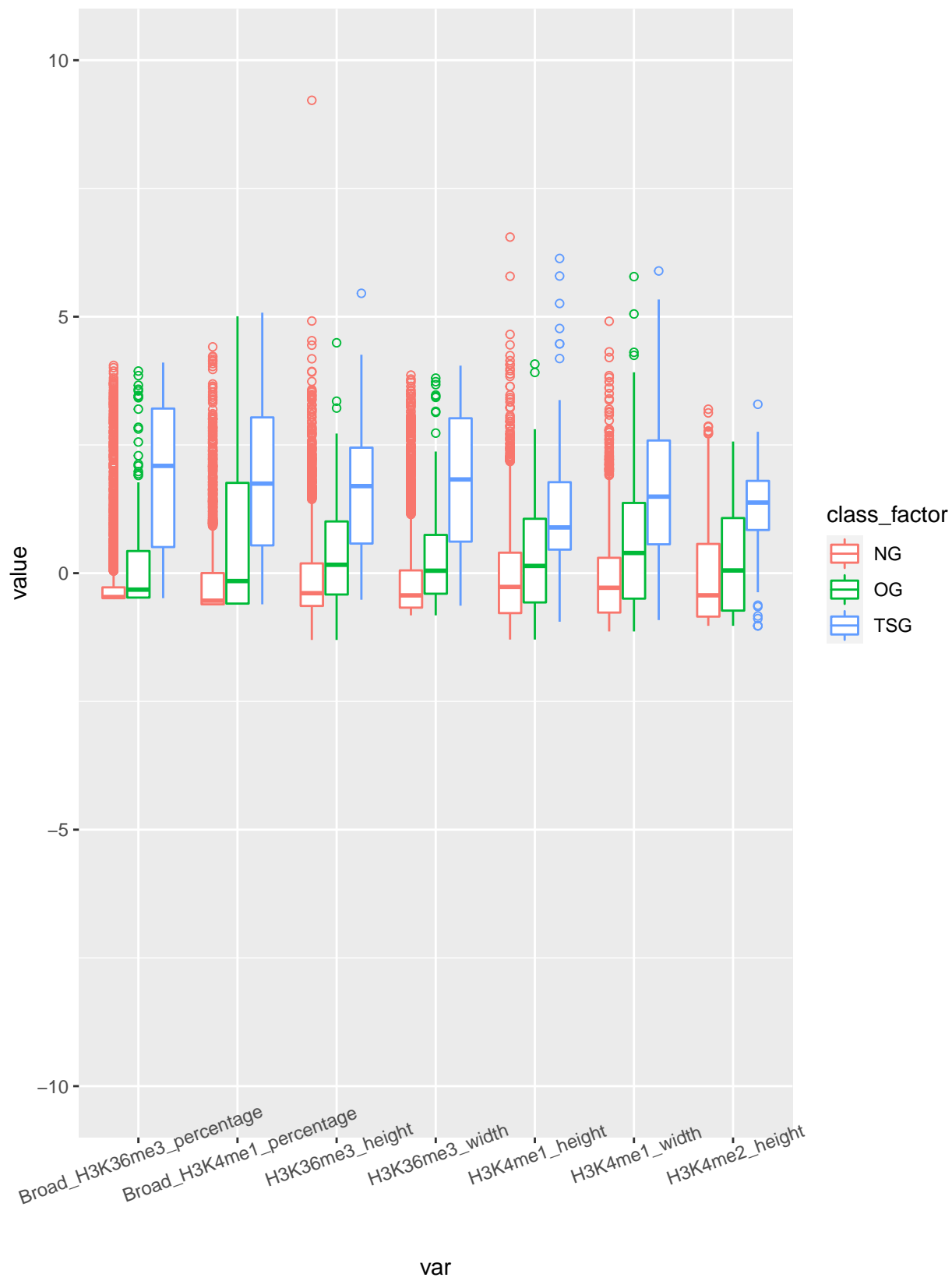


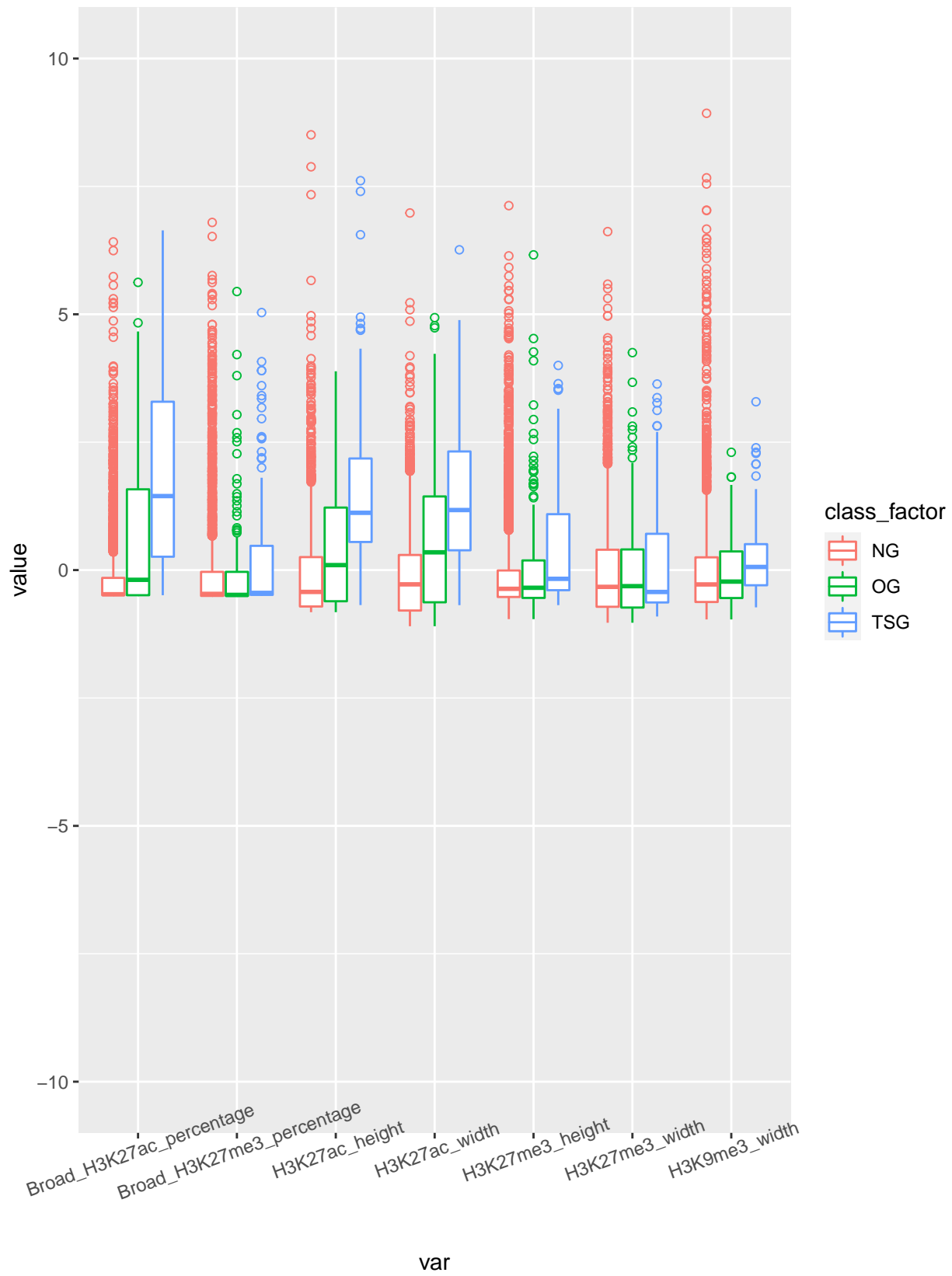


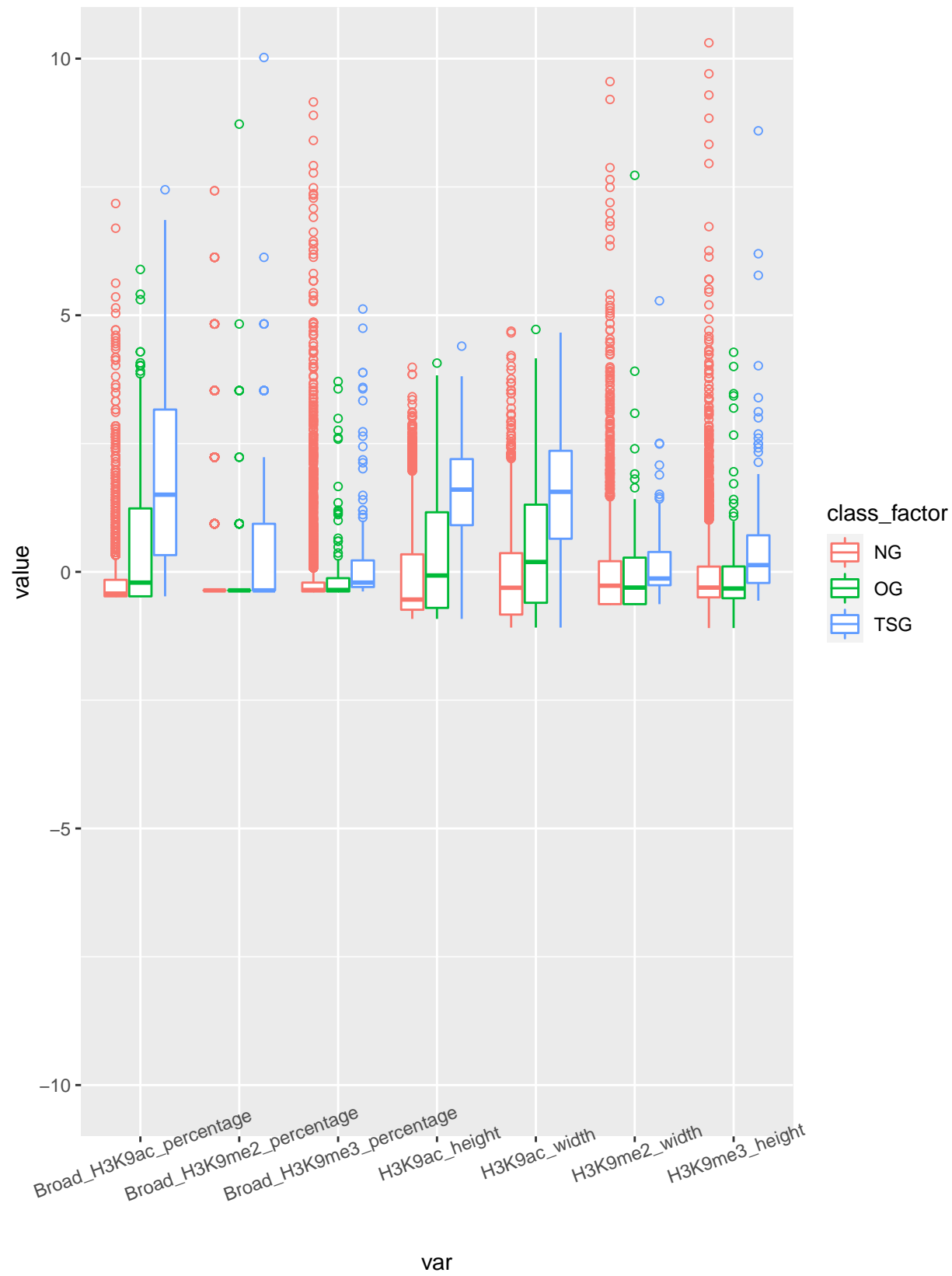


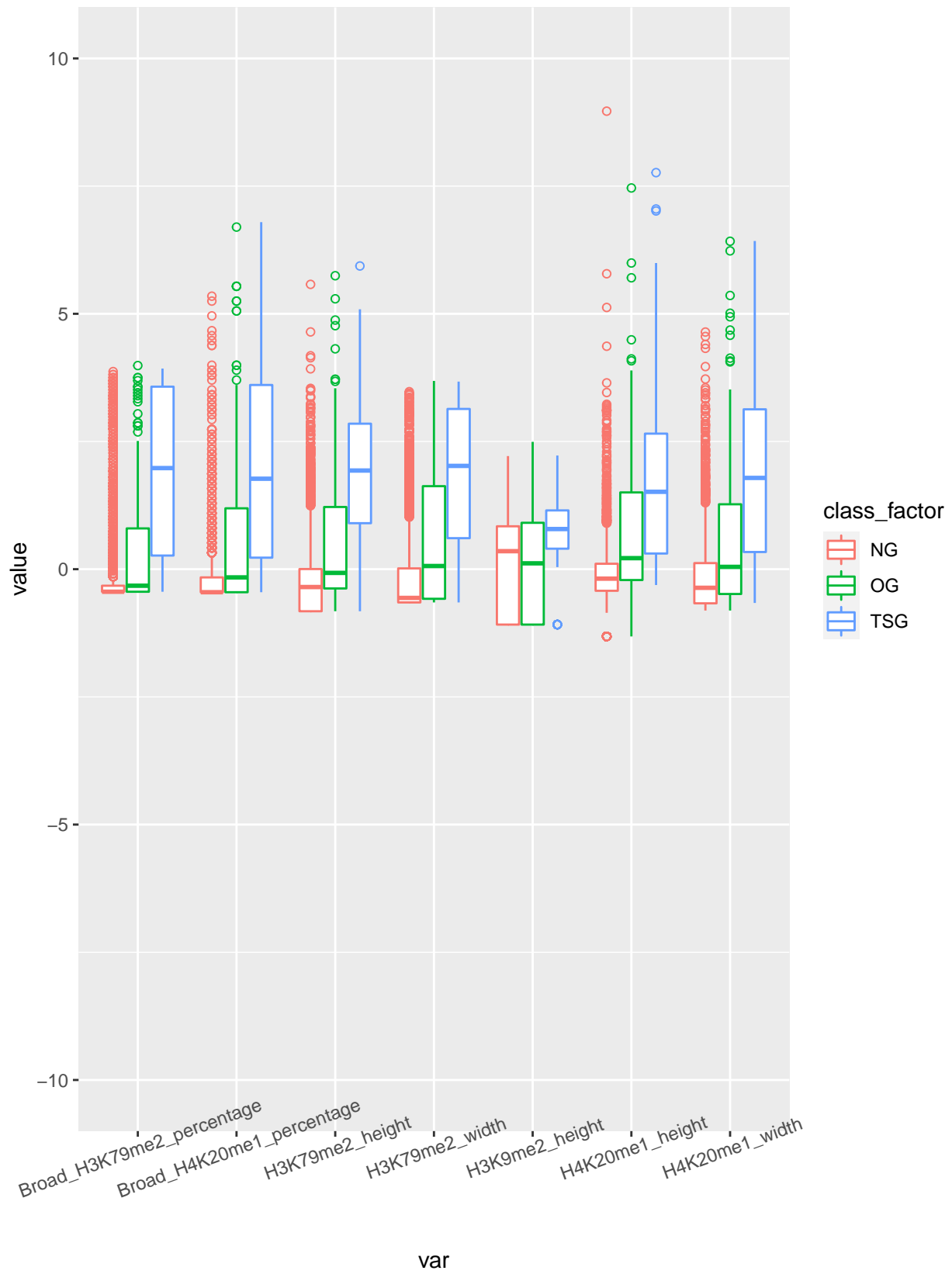












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# Box plots of each variable (7 per plot) split by class
for (i in seq(1, ncol(training2) - 2, by = 7)) {
  # Select 7 columns plus class
  plot <- training2[, c(names(training2)[seq(i, i + 6)], "class_factor")] %>%
    # Scale and center numeric variables
    mutate_if(is.numeric, scale) %>%
    # Turns 7 columns into 2 columns: variable name and value
    gather(-class_factor, key = "var", value = "value") %>%
    ggplot(aes(x = var, y = value, color = class_factor)) +
    geom_boxplot(outlier.shape = 1) +
    theme(axis.text.x = element_text(angle = 20)) +
    coord_cartesian(ylim = c(-10, 10))

  print(plot)
}

```

