

# SCALING

```
data_meta <- data_num %>%  
  mutate(id = as.character(str_glue("{package}-{palette}-{group}"))))  
  
data_prescaled <- data_meta %>%  
  select(-package, -palette, -colors) %>%  
  mutate_at(vars(type, group), funs(as.factor))  
  
library(recipes)  
  
re <- recipe(id ~ ., data = data_prescaled) %>%  
  step_dummy(type, group) %>%  
  step_center(all_predictors()) %>%  
  step_scale(all_predictors()) %>%  
  prep()  
  
data_scaled <- bake(re, newdata = data_prescaled)
```

# MODELING

- Simple nearest neighbors method
- Using Euclidean distance
- Same weights for all predictors due to scaling