

# badges-transform.R

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> #####
> # Add different categories to badge data
> #
> # There are different step in this script:
> # 1. Reorder and rename columns
> # 2. Add types of activity
> # 3. Add types of origin for awared badges
> #
> # INPUT:      data-raw/badges-raw.rds
> # OUTPUT:     data-processed/badges.rds
> # USAGE:      source("R/badges-transform.R")
> # PACKAGES:   tidyverse
> #####
>
>
> library(tidyverse)
> setwd(options()$project_path)
> badges <- readRDS("data-raw/badges-raw.rds")
>
> #####
> # 1. Reorder and rename columns
>
> badges <- tbl_df(badges[order(badges$name, decreasing = FALSE),])
> badges$rank <- as.ordered(factor(badges$rank, levels = c("bronze", "silver", "gold")))
>
> #####
> # 2. Add types of activity
>
> activity <-      c(1,5,5,4,3,1,3,5,3,5,
+                   4,4,4,3,4,3,3,4,4,1,
+                   4,4,4,6,6,6,4,4,2,3,
+                   3,4,2,1,3,1,2,2,1,2,
+                   1,2,2,5,1,1,3,4,3,2,
+                   2,1,5,1,4,3,4,1,2,3,
+                   1,4,5,3,3,2,4,2,4,2,
+                   1,2,4,1,4,1,4,4,1,4,
+                   4,4,4,3,4,2,2,1,2,4,
+                   3)
> badges <- cbind(badges, activity)
> activity_types <- c(
+   "Question",      # 1
+   "Answer",        # 2
+   "Participation", # 3
+   "Moderation",    # 4
+   "Other",         # 5
+   "Documentation"  # 6
+ )
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> badges$activity <- factor(badges$activity, levels = c(1:6), labels = activity_types)
>
> # 3. Add types of origin for the awarded badges
>
> origin <- c(
+   1,4,2,1,1,1,3,2,3,3,
+   1,1,1,1,3,3,2,1,1,1,
+   1,1,1,4,4,4,1,1,2,1,
+   2,1,1,2,1,2,2,2,2,2,
+   2,2,1,1,1,1,2,1,2,2,
+   2,2,3,2,1,2,1,2,2,4,
+   1,1,2,2,2,1,1,2,1,1,
+   1,1,3,1,1,2,1,1,1,1,
+   1,2,1,2,2,1,1,2,2,1,
+   3)
>
> badges <- cbind(badges, origin)
> based_on <- c(
+   "User",          # 1
+   "Community",     # 2
+   "Event",         # 3
+   "Dead"           # 4
+ )
> badges$origin <- factor(badges$origin, levels = c(1:4), labels = based_on)
>
> badges <- badges[, c(
+   "badge_id",
+   "name",
+   "award_count",
+   "rank",
+   "description",
+   "activity",
+   "origin")]
>
>
> saveRDS(badges, file = "data-processed/badges.rds")

```