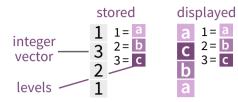
Factors with forcats:: cheat sheet

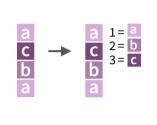
The forcats package provides tools for working with factors, which are R's data structure for categorical data.

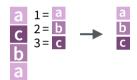
Factors

R represents categorical data with factors. A **factor** is an integer vector with a **levels** attribute that stores a set of mappings between

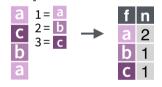


integers and categorical values. When you view a factor, R displays not the integers, but the levels associated with them.

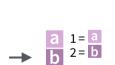




Inspect Factors



b 2= b

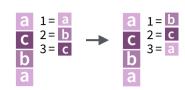


fct_count(f, sort = FALSE, prop = FALSE) Count the number of values with each **level.** fct count(f)

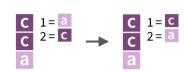
fct_match(f, lvls) Check for lvls in f. fct match(f. "a")

fct_unique(f) Return the unique values, removing **duplicates.** fct unique(f)

Change the order of levels



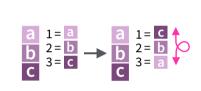
fct_relevel(.f, ..., after = 0L) Manually reorder factor levels. fct relevel(f, c("b", "c", "a"))



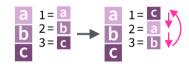
fct_infreq(f, ordered = NA) Reorder levels by the frequency in which they appear in the data (highest frequency first). Also fct_inseq(). f3 <- factor(c("c", "c", "a")) fct infrea(f3)



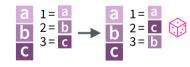
fct_inorder(f, ordered = NA) Reorder levels by order in which they appear in the data. fct_inorder(f2)



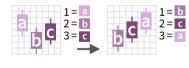
fct_rev(f) Reverse level order. f4 <- factor(c("a","b","c"))



fct_shift(f) Shift levels to left or right, wrapping around end.

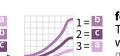


fct_shuffle(f, n = 1L) Randomly permute order of factor levels. fct shuffle(f4)



fct_reorder(.f, .x, .fun = median, ..., .desc = FALSE) Reorder levels by their relationship with another variable. PlantGrowth.

weight ~ fct_reorder(group, weight)

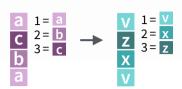


fct_reorder2(.f, .x, .y, .fun = last2, ..., .desc = TRUE) Reorder levels by their final values when plotted with two other variables.

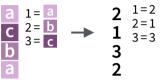


color = fct reorder2(color, carat, price) geom smooth()

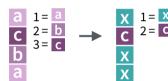
Change the value of levels



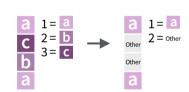
fct_recode(.f, ...) Manually change levels. Also fct relabel() which obeys purrr::map syntax to apply a function or expression to each level. fct_recode(f, v = "a", x = "b", z = "c") fct_relabel(f, ~ paste0("x", .x))



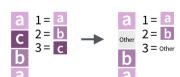
fct_anon(f, prefix = "") Anonymize levels with random integers. fct anon(f)



x 1= x fct_collapse(.f, ..., other_level = NULL Collapse levels into manually defined fct_collapse(.f, ..., other_level = NULL) groups. $fct_collapse(f, x = c("a", "b"))$

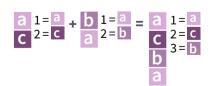


fct_lump_min(f, min, w = NULL, other_level = "Other") Lumps together factors that appear fewer than min times. Also fct_lump_n(), fct_lump_prop(), and fct_lump_lowfreq(). fct lump min(f, min = 2)

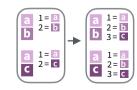


fct_other(f, keep, drop, other level = "Other") Replace levels with "other." $fct_other(f, keep = c("a", "b"))$

Combine Factors



fct_c(...) Combine factors with different levels. Also fct_cross(). f1 <- factor(c("a", "c")) f2 <- factor(c("b", "a")) fct c(f1, f2)



fct_unify(fs, levels = lvls_union(fs)) Standardize levels across a list of factors. fct_unify(list(f2, f1))

Add or drop levels

