
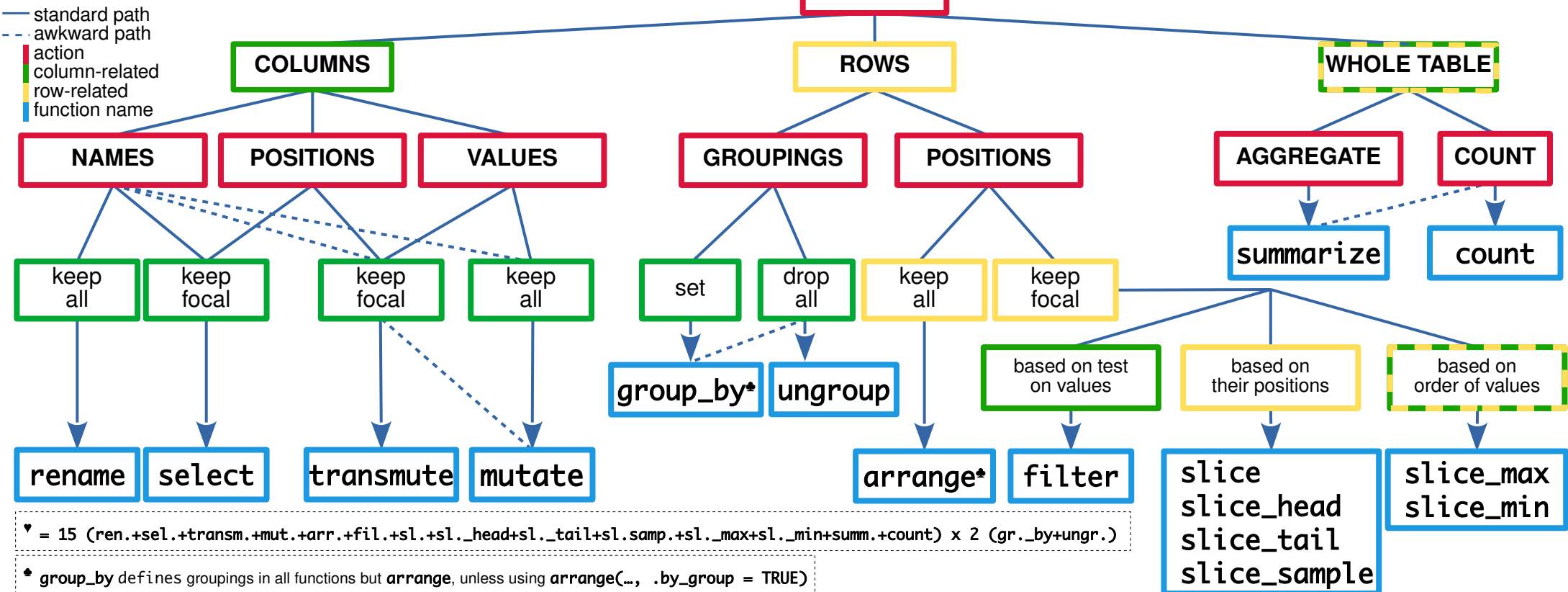


Data Transformation with **dplyr** 1.0

A guide to 30♥ behaviors applied to one tibble (tbl) or data.frame

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SYNTAX: `tbl %>% verb()`

[font style varies to tease apart placeholders from true R_commands]

```
tbl %>% rename(new_name_col_X = old_name_col_X)
tbl %>% select(name_col_X, name_col_Y [+ std_op.*], selection_helper*(“text”))
tbl %>% transmute(name_col_Z = fn†(name_col_X))
tbl %>% mutate(name_col_Z = fn†(name_col_X))
tbl %>% group_by(name_col_X, name_col_Y) %>% verb() %>% ungroup()
tbl %>% arrange(name_col_X, desc(name_col_Y))
tbl %>% filter(fn_test_vectorized(name_col_X), fn_test_vectorized(name_col_Y))
tbl %>% slice(row_indices); tbl %>% slice_head/tail/sample(number_rows_to_keep);
tbl %>% slice_min/max(name_col_X, n = nb_rows_to_keep [or prop = proportion_rows_to_keep])
tbl %>% summarize(name_col_Z = fn†(name_col_X))
tbl %>% count(); tbl %>% count(name_col_X)
```

* standard operators may be used to combine (`c()`, `&`, `|`) or negate elements (`!`)

* selection helpers from pkg `tidyselect` may be used to select columns based on:

- column values → `where(fn)`, e.g. `fn = is.numeric`
- column names → `starts_with(“text”), ends_with(“text”), contains(“text”), matches(“regex”), num_range(“text”, min:max), all_of(vector_of_text), any_of(vector_of_text)`
- column positions → `everything(), last_col()`

† if the function `fn` does not return a scalar or a row-long output, use `list(fn())` to create a list column (i.e. for nesting the content); for creating multiple columns at once `fn` should return a `data.frame` or `tibble` and no name should be defined when calling the **dplyr** `verb` (i.e. `name_col_Z =`; if a name is defined, the output will be nested); to unnest to content of a list column, use one of the functions provided by the pkg `tidyr` (e.g. `unnest_wider`)