
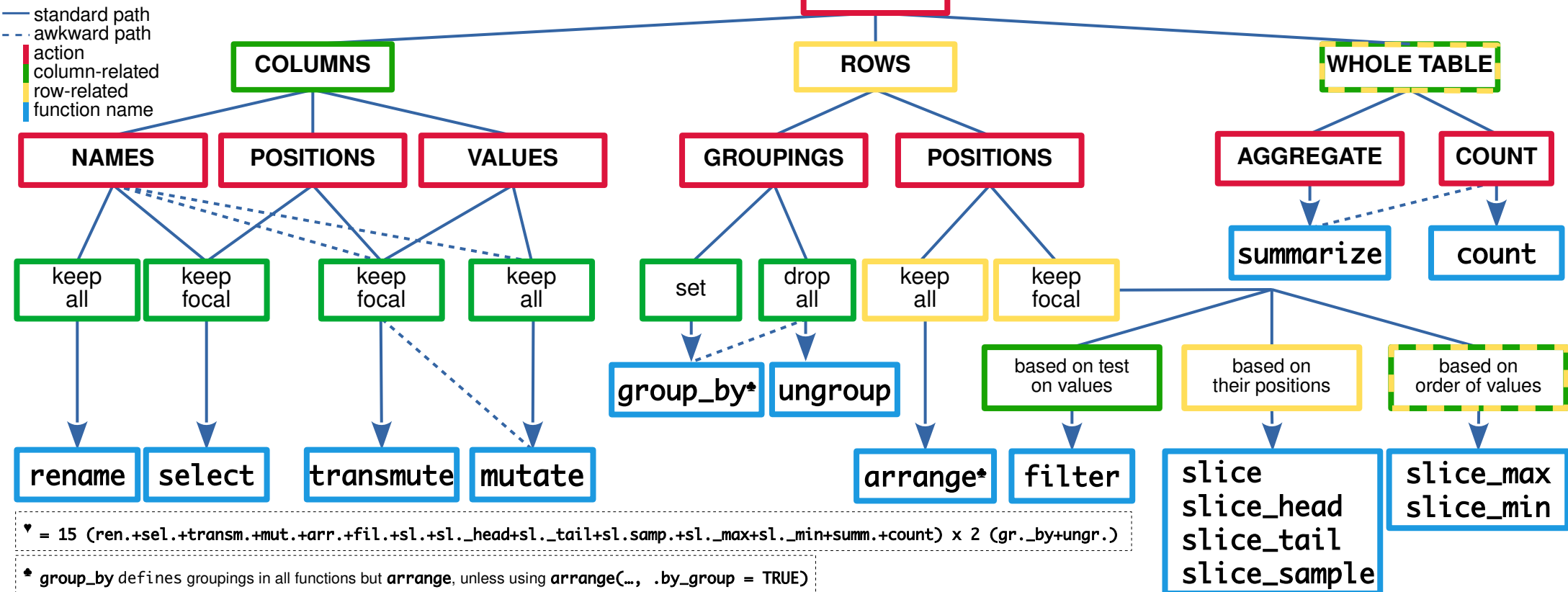


# Data Transformation with **dplyr** 1.0

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*)
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**)