

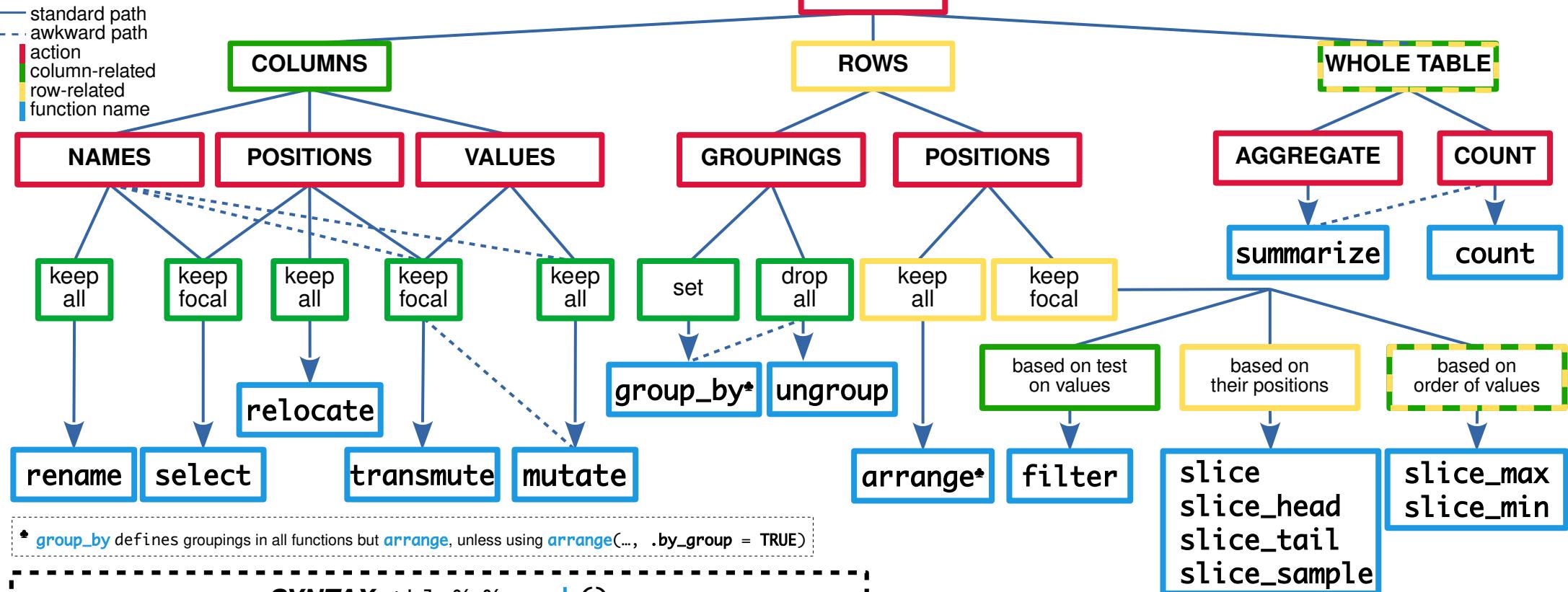
Data Transformation with dplyr 1.0 (part 1)

A guide to 17 modifications 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 %>% relocate(same_as_for_select, .before[or .after] = name_col_Z/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()`, `&`, `l`) 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()` → See guide part 2 for more details

♦ if the function fn does not return a scalar or a nrow-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 **tidyverse** (e.g. `unnest_wider`)