# R Example DPLYR Counting

Fan Wang

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#### Uncount

Go to the RMD, R, PDF, or HTML version of this file. Go back to fan's REconTools Package, R4Econ Repository (bookdown site), or Intro Stats with R Repository.

In some panel, there are N individuals, each observed for  $Y_i$  years. Given a dataset with two variables, the individual index, and the  $Y_i$  variable, expand the dataframe so that there is a row for each individual index's each unique year in the survey.

#### Search:

• r duplicate row by variable

#### Links:

• see: Create duplicate rows based on a variable

### Algorithm:

- 1. generate testing frame, the individual attribute dataset with invariant information over panel
- 2. uncount, duplicate rows by years in survey
- 3. group and generate sorted index
- 4. add indiviual specific stat year to index

```
mutate(calendar_year = yr_in_survey + ar_start_yaer - 1)
# Show results Head 10
tb_indi_panel %>% head(10) %>%
   kable() %>%
   kable_styling_fc()
```

ID	ar_start_yaer	$ar\_end\_year$	yr_in_survey	calendar_year
1	1	2	1	1
1	1	2	2	2
2	2	4	1	2
2	2	4	2	3
2	2	4	3	4
3	3	3	1	3
4	1	10	1	1
4	1	10	2	2
4	1	10	3	3
4	1	10	4	4