

# R Verbs, thus far...

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## 1 Lesson 3: DplyR essentials

### 1.1 Simple DplyR Verbs

- `select()`
- `filter()`
- `arrange()`
  - `desc()`
- `mutate()`
- `summarise()`
- `group_by()`, `ungroup()`
- `rename()`, `rename_with()`
- `top_n()`
- `distinct()`

### 1.2 Advanced DplyR Verbs

- merge datasets into one
    - `left_join()`
    - `right_join()`
    - `inner_join()`
    - `full_join()`
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## 2 Lesson 2: Console Programming and Basic R

### 2.1 Common R Verbs

- `length()`
- `class()`
- `typeof()`
- `names()`
- `ifelse()`
- `print()`
- `paste()`
- `paste0()`
- `seq(from = , to =, by = )`
  - `each = , times =`

### 2.2 Statistics/Math Verbs

- `sum()`

- `mean()`
- `median()`
- `sd()`
- `min()`
- `max()`
- `range()`
- `quantile()`
  - `na.rm = TRUE / FALSE`
- `log()`
- `exp()`
- `abs()`
- `summary()`
- `round()`
- `floor()`
- `ceiling()`

## 2.3 Missing Data Verbs

- `is.na()`
- `!is.na()`

## 2.4 Text Verbs

- `toupper()`
- `tolower()`

## 2.5 Factor Verbs

- `factor()`
  - `as.factor()`
  - \* `order = TRUE / FALSE`
  - \* `levels = c()`
- `summary()`

## 2.6 Relational operators

- `<`, `>`, `<=`, `>=`, `==`, `!=`

## 2.7 Logical operators

- `&`, `|`

## 2.8 Data.frame Verbs

- `data.frame()`
  - `as.data.frame()`
- `View()`
- `str()`
- `head()`
- `tail()`
- `subset()`
- `order()`

## 2.9 Plot Verbs

- `plot()`

## 2.10 Package Verbs

- *R*, *RStudio*, *Rtools*, *MiKTeX*
  - `install.packages()`
    - `summarytools`, `rmarkdown`, `tidyverse`, `dplyr`, `ggplot2`, `devtools`, `utils`
  - `library()`
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