

# R Verbs, thus far...

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## 1 Lesson 4: Visualization in base R

### 1.1 Scatter Plot

- `plot()`

### 1.2 Histogram

- `hist()`
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## 2 Lesson 3: DplyR essentials

### 2.1 Simple DplyR Verbs

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

### 2.2 Advanced DplyR Verbs

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

### 3.1 Common R Verbs

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

### 3.2 Statistics/Math Verbs

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

### 3.3 Missing Data Verbs

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

### 3.4 Text Verbs

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

### 3.5 Factor Verbs

- `factor()`
  - `as.factor()`

- \* order = TRUE / FALSE
  - \* levels = c()
- summary()

### 3.6 Relational operators

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

### 3.7 Logical operators

- &, |

### 3.8 Data.frame Verbs

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

### 3.9 Plot Verbs

- plot()

### 3.10 Package Verbs

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