

Data Cleaning With R: Takeaways

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Syntax

MANIPULATING COLUMNS USING THE **DPLYR** PACKAGE:

- Converting a single column to numeric:

```
data_frame <- data_frame %>%  
mutate(`col name` = as.numeric(`col name`))
```

- Converting multiple columns to numeric with column names:

```
data_frame <- data_frame %>%  
mutate_at(vars(`col name 1` : `col name 5`), as.numeric)
```

- Converting multiple columns to numeric with column indexes:

```
data_frame <- data_frame %>%  
mutate_at(`beginning index` : `ending index`, as.numeric)
```

- Filtering a data frame:

```
data_frame <- data_frame %>%  
filter(`col name` > condition)
```

- Grouping a data frame:

```
data_frame <- data_frame %>%  
group_by(`col name 1`, `col name 2`)
```

- Summing up columns:

```
data_frame <- data_frame %>%  
mutate(`col name` = `col name 1` + `col name 2`)
```

- Padding character strings:

```
data_frame <- data_frame %>%  
str_pad(`col name`, width = 6, side = 'left', pad = "0")
```

- Selecting variables from a data frame:

```
graduation <- graduation %>%  
filter(Cohort == "2006" & Demographic == "Total Cohort") %>%  
select(`col name 1`, `col name 2`, `col name 3`)
```

- Renaming a column in a data frame:

```
data_frame %>%  
rename(new_column_name = old_column_name)
```

- Identifying duplicated values:

```
duplicated(data_frame)
```

- Identifying duplicated values using purrr and dplyr:

```
list %>%  
map(mutate, is_dup = duplicated(`col name 1`))
```

Concepts

- Much of the data you will encounter in the real world requires data cleaning. Data cleaning includes:
 - Removing data you don't need for analysis.
 - Removing duplicate data.
 - Dealing with missing data and outliers.
 - Creating new variables where necessary.
 - Combining separate datasets.
- Metadata refers to any available descriptions of the datasets.
- Tick marks (`) are necessary when referring to variable names with spaces within them.

Resources

- [Preparing data analysis](#)
- [Duplicated function](#)
- [Six steps to data cleaning](#)



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