

# Intro to R

Data Output

# Data Output

While its nice to be able to read in a variety of data formats, it's equally important to be able to output data somewhere.

The `readr` package provides data exporting functions which have the pattern `write_*`:

- `write_csv()`,
- `write_delim()`, others.

From `write_csv()` documentation:

```
write_csv(x, file,  
  na = "NA", append = FALSE,  
  col_names = !append, quote_escape = "double",  
  eol = "\n", path = deprecated()  
)
```

Rows: 9794 Columns: 31

— Column specification —

Delimiter: ","

chr (24): LocationAbbr, LocationDesc, TopicType, TopicDesc, MeasureDesc, Dat...

dbl (7): YEAR, Data\_Value, Data\_Value\_Std\_Err, Low\_Confidence\_Limit, High\_C...

Use ``spec()`` to retrieve the full column specification for this data.

Specify the column types or set ``show_col_types = FALSE`` to quiet this message.

# Data Output

**x**: data frame you want to write

**file**: file path where you want to R object written; it can be:

- an absolute path,
- a relative path (relative to your working directory),
- a file name only (which writes the file to your working directory)

*# Examples*

```
write_csv(dat, file = "YouthTobacco_newNames.csv")
```

```
write_delim(dat, file = "YouthTobacco_newNames.csv", delim = ",")
```

# R binary file

.rds is an extension for R native file format.

`write_rds()` and `read_rds()` from `readr` package can be used to write/read a single R object to/from file.

Saving datasets in .rds format can save time if you have to read it back in later.

```
# write an object: a data frame "dat"  
write_rds(dat, file = "yts_dataset.rds")  
  
# write an object: vector "x"  
x <- c(1, 3, 3)  
write_rds(x, file = "my_vector.rds")  
  
# read an object from file and assign to a new object named "y"  
x2 <- read_rds(file = "my_vector.rds")  
x2
```

```
[1] 1 3 3
```

## Summary

- Use `write_csv()` and `write_delim()` from the `readr` package to write your (modified) data
- `.rds` files can be handy for saving intermediate work

[Class Website](#)

[Data Output Lab](#)



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