Package: jmpread (via r-universe)

November 19, 2026

Type Package

Title Read 'JMP' Binary Data Tables in Native R

Version 0.1.0

Description A reader for 'JMP' binary data tables, implemented entirely in R. Supports common numeric, character, temporal and row-state column encodings, including gzip compression. Returns data frames with source metadata and reports unsupported or malformed encodings. Based on binary format work in 'jumpio' <https://github.com/abardagjy/jumpio> and 'JMPReader.jl' <https://github.com/jaakkor2/JMPReader.jl>. No 'JMP' installation or 'Python' runtime is required.

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Encoding UTF-8

Depends R (>= 4.1.0)

Suggests knitr

VignetteBuilder knitr

URL https://github.com/JosephHill04/jmpread

BugReports https://github.com/JosephHill04/jmpread/issues

NeedsCompilation no

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`read_jmp` *Read a JMP Binary Data Table*

Description

Read JMP binary files using native R. Handles common numeric, fixed and variable character, pooled character, compressed, temporal and row-state storage. Unsupported encodings raise errors.

Usage

```
read_jmp(path, select = NULL, exclude = NULL, encoding = NULL,
  temporal = c("convert", "raw"), metadata = TRUE,
  max_bytes = 256 * 1024^2)
```

Arguments

`path`	One path to a local JMP file.
`select`, `exclude`	Character vectors of column names to retain or omit, respectively. Mutually exclusive. Source column order is preserved.
`encoding`	A character encoding override, or `NULL` to use the header.
`temporal`	Convert recognized date, datetime and time display formats to UTC `POSIXct`, and durations to `difftime`, or return raw JMP seconds.
`metadata`	Attach file and column metadata attributes.
`max_bytes`	Maximum input file size in bytes. Defaults to 256 MiB.

Details

Numeric missing sentinels become `NA`. Empty character strings remain empty strings, explicit pooled missing sentinels become `NA`. Date-display columns retain their time of day, using `POSIXct` rather than `Date`. JMP's epoch is 1904-01-01. Unknown numeric display formats remain numeric, their type bytes are preserved in metadata.

Row-state columns are list columns of raw byte vectors. Palette meanings, hidden/excluded row flags and JSL properties are not interpreted. Column metadata retains the raw post-header block, including its data payload, this may substantially increase memory use. Formulas are never executed. Use `metadata = FALSE` to avoid retaining raw blocks.

The full input is read into memory. The option `jmpread.max_inflated_bytes` limits each declared inflated column size (default 256 MiB). It is not a streaming decompression memory limit; this reader is not hardened against adversarial compressed files. Embedded NULs in text are rejected because R strings cannot represent them.

Value

A `data.frame` preserving original column names. With `metadata = TRUE`, `attr(result, "jmp_metadata")` describes the file and `attr(result[[i]], "jmp_metadata")` describes each column.

Examples

```
path <- system.file("extdata", "jmpreader_jl", "example1", "example1.jmp",
                    package = "jmpread")
table <- read_jmp(path)
table[, c("ints", "floats")]
attr(table[["date"]], "jmp_metadata")$storage
read_jmp(path, select = c("ints", "char utf8"), metadata = FALSE)
```

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