Package: typeR (via r-universe)

May 9, 2026

Title Simulate Typing Script

Version 0.2.1

Description Simulates typing of R script files for presentations and demonstrations. Provides character-by-character animation with optional live code execution. Supports R scripts (.R), R Markdown (.Rmd), and Quarto (.qmd) documents.

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Encoding UTF-8

URL https://Fgazzelloni.github.io/typeR/, https://github.com/Fgazzelloni/typeR

BugReports https://github.com/Fgazzelloni/typeR/issues

Roxygen list(markdown = TRUE)

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VignetteBuilder knitr

Suggests quarto, testthat (>= 3.0.0), knitr, rmarkdown

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Contents

typeR *Simulate Typing of an R Script File*

Description

Simulates typing out the content of an R script file, line by line, character by character, to create an animation effect for live coding presentations or educational demonstrations.

Usage

```
typeR(file, delay = 0.05)
```

Arguments

file	Path to the R script file to simulate typing.
delay	The delay (in seconds) between typing each character (default: 0.05).

Value

Invisibly returns NULL. Called for the side effect of displaying typed content in the console with animation.

Examples

```
# Create a temporary R script for demonstration
tmp <- tempfile(fileext = ".R")
writeLines(c(
  "# Example R script",
  "x <- 1:10",
  "mean(x)"
), tmp)

# Simulate typing the script (fast for testing)
typeR(tmp, delay = 0.01)

# Clean up
unlink(tmp)

# Longer example with realistic typing speed

  tmp2 <- tempfile(fileext = ".R")
  writeLines(c(
    "# Data analysis example",
    "data <- mtcars",
    "model <- lm(mpg ~ wt, data = data)",
    "summary(model)"
  ), tmp2)
  typeR(tmp2, delay = 0.08)
  unlink(tmp2)
```

typeRun *Type and Run R Code with Live Evaluation*

Description

An enhanced version of typeR that not only simulates typing but also evaluates R code in real-time. Supports interactive pause/resume control and handles both Quarto/R Markdown documents and plain R scripts.

Usage

```
typeRun(
  file,
  delay = 0.05,
  jitter = 0.01,
  max_print = 10,
  envir = new.env(parent = .GlobalEnv)
)
```

Arguments

file	Character string. Path to an R script (.R), R Markdown (.Rmd), or Quarto (.qmd) file to type and execute.
delay	Numeric. Base delay in seconds between typing each character. Default is 0.05 (50 milliseconds).
jitter	Numeric. Standard deviation for random variation in typing speed, adding natural typing rhythm. Default is 0.01.
max_print	Integer. Maximum number of elements to print for long outputs (vectors, data frames, matrices, lists). Default is 10.
envir	Environment. The environment in which to evaluate R code. Default is a new environment with the global environment as parent.

Details

typeRun() extends the basic typeR() functionality by:

- **Live Code Evaluation:** Executes R code chunks as they are typed
- **Interactive Control:** Press ESC/Ctrl+C to pause, then choose to resume or stop
- **Smart Output:** Truncates long outputs and handles models intelligently
- **Format Support:** Handles .R, .Rmd, and .qmd files intelligently

For Quarto/R Markdown files, typeRun():

- Skips YAML headers
- Only evaluates code in R code chunks
- Preserves narrative text without evaluation

For R scripts, it evaluates all non-comment, non-empty lines.

Value

Invisibly returns `NULL`. Called for side effects (typing animation and code evaluation).

Output Handling

- Assignments and plotting functions execute silently
- Long vectors/data frames are truncated to `max_print` elements
- Model summaries (lm, glm, etc.) display using R's standard print methods
- Raw model objects (without summary call) show a simple fitted message
- Package loading messages (library/require) are suppressed
- Errors are caught and displayed without stopping execution

Interactive Control

During execution, you can:

1. Press **ESC** (or Ctrl+C on some systems) to pause
2. Enter **1** to resume from where you paused
3. Enter **2** to stop completely

See Also

`typeR` for typing without evaluation

Examples

```
# Create a temporary R script for demonstration
tmp <- tempfile(fileext = ".R")
writeLines(c(
  "# Simple calculation",
  "x <- 1:5",
  "print(mean(x))",
  "y <- x^2",
  "print(sum(y))"
), tmp)

# Type and run with fast animation (for quick testing)

  typeRun(tmp, delay = 0.01, max_print = 5)


# Clean up
unlink(tmp)

# Interactive examples with real files
if (interactive()) {
  # Type and run a simple R script
  typeRun("analysis.R")
```

```
  # Type and run with slower, more dramatic effect
  typeRun("demo.R", delay = 0.1, jitter = 0.02)

  # Type and run a Quarto document with limited output
  typeRun("report.qmd", max_print = 5)
}
```

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