Package ‘typeR’

February 4, 2026

Title Simulate Typing Script

Version 0.2.0

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

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VignetteBuilder knitr

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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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