

Package: rho.coding (via r-universe)

July 15, 2026

Type Package

Depends R (>= 4.4.0)

Title Rho Coding Tools

Version 0.0.1.9000

Description Supplies coding-agent tools with explicit execution semantics, including cross-platform Bash selection, process execution in mirai workers, isolated R evaluation, and opt-in current-session R evaluation.

License MIT + file LICENSE

Encoding UTF-8

Roxygen list(markdown = TRUE)

Imports S7, rho.async (>= 0.0.1.9000), rho.ai (>= 0.0.1.9000), rho.compute (>= 0.0.1.9000), processx

Suggests tinytest, knitr

Remotes sounkou-bioinfo/Rho/packages/rho.async,
sounkou-bioinfo/Rho/packages/rho.ai,
sounkou-bioinfo/Rho/packages/rho.compute

URL <https://github.com/sounkou-bioinfo/Rho>,
<https://sounkou-bioinfo.github.io/Rho/rho.coding/>

BugReports <https://github.com/sounkou-bioinfo/Rho/issues>

Config/roxygen2/version 8.0.0

Repository <https://sounkou-bioinfo.r-universe.dev>

Date/Publication 2026-07-15 17:28:07 UTC

RemoteUrl <https://github.com/sounkou-bioinfo/Rho>

RemoteRef HEAD

RemoteSha b0668a1173b069758ec7bd298007475e38d7b668

RemoteSubdir packages/rho.coding

Contents

rho_coding_contracts	2
--------------------------------	---

Index	3
--------------	----------

rho_coding_contracts	<i>Coding tools and their execution contracts</i>
----------------------	---

Description

The shell contract preserves Bash semantics across platforms and returns a typed resolution explaining which executable was selected. Shell processes execute through `rho.compute` and `processx`.

Details

R evaluation has explicit state semantics: `RhoMiraiExpressionEvaluator` is isolated and may overlap, while `RhoCurrentSessionREvaluator` receives a caller-supplied environment and requires exclusive scheduling.

Index

rho_coding_contracts, 2
rho_coding_tools
 (rho_coding_contracts), 2
rho_current_platform
 (rho_coding_contracts), 2
rho_evaluate_r (rho_coding_contracts), 2
rho_r_evaluation_binding
 (rho_coding_contracts), 2
rho_r_evaluation_outcome
 (rho_coding_contracts), 2
rho_r_evaluator_overlap
 (rho_coding_contracts), 2
rho_r_evaluator_reason
 (rho_coding_contracts), 2
rho_r_tool_result
 (rho_coding_contracts), 2
rho_resolve_bash
 (rho_coding_contracts), 2
rho_run_shell (rho_coding_contracts), 2
rho_shell_outcome
 (rho_coding_contracts), 2
rho_shell_tool_result
 (rho_coding_contracts), 2
rho_tool_bash (rho_coding_contracts), 2
rho_tool_r (rho_coding_contracts), 2
rho_tool_read (rho_coding_contracts), 2
rho_tool_write (rho_coding_contracts), 2
RhoArgumentShell
 (rho_coding_contracts), 2
RhoBashShell (rho_coding_contracts), 2
RhoCurrentSessionREvaluator
 (rho_coding_contracts), 2
RhoLegacyWslBashShell
 (rho_coding_contracts), 2
RhoMiraiExpressionEvaluator
 (rho_coding_contracts), 2
RhoMiraiShellBackend
 (rho_coding_contracts), 2
RhoPlatform (rho_coding_contracts), 2
RhoREvaluationBinding
 (rho_coding_contracts), 2
RhoREvaluationFailure
 (rho_coding_contracts), 2
RhoREvaluationOutcome
 (rho_coding_contracts), 2
RhoREvaluationSuccess
 (rho_coding_contracts), 2
RhoREvaluator (rho_coding_contracts), 2
RhoRExpression (rho_coding_contracts), 2
RhoShellBackend (rho_coding_contracts),
 2
RhoShellCompleted
 (rho_coding_contracts), 2
RhoShellConfig (rho_coding_contracts), 2
RhoShellFailure (rho_coding_contracts),
 2
RhoShellOutcome (rho_coding_contracts),
 2
RhoShellResolution
 (rho_coding_contracts), 2
RhoShellUnavailable
 (rho_coding_contracts), 2
RhoUnixPlatform (rho_coding_contracts),
 2
RhoWindowsPlatform
 (rho_coding_contracts), 2