

Package ‘agenticr’

July 28, 2026

Type Package

Title AI-Powered R Console Assistant

Version 0.3.3

Description An AI-powered assistant for the R console. Type natural language or incorrect R code directly in the console, and 'agenticr' routes it to an AI agent for processing. Focused on statistical analysis, data transformation, and visualization, <<https://github.com/panlanfeng/AgenticR>>.

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SystemRequirements ripgrep (optional, for fast file search; install with 'winget install BurntSushi.ripgrep.MSVC' on Windows or see <https://github.com/BurntSushi/ripgrep>)

Encoding UTF-8

Imports htr, jsonlite, cli, utils, yaml, processx

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

Config/roxygen2/version 8.0.0

NeedsCompilation no

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Repository CRAN

Date/Publication 2026-07-28 16:40:21 UTC

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agenticr-package	<i>AI-Powered R Console Assistant</i>
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Description

An AI-powered assistant for the R console. Type natural language or incorrect R code directly in the console, and agenticr routes it to an LLM agent for processing.

Author(s)

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Examples

```
agentic_providers()
agentic_skills()
```

agentic	<i>Start an AgenticR session</i>
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Description

Start an interactive AI-powered R console session. Type R code for direct execution, natural language for LLM processing, or slash commands for meta-operations. Press Ctrl+C twice to exit.

Usage

```
agentic(auto = TRUE, ...)
```

Arguments

auto	If TRUE, tries to auto-configure from environment variables.
...	Not used

Details

Valid R code executes directly with zero LLM overhead. Natural language queries are routed to the configured LLM provider, which generates and executes R code in the current session.

The `;` prefix forces natural language mode for any input (e.g. `;hist(mtcars[["mpg"]])` sends it to the LLM instead of executing directly).

Value

Invisible. Called for its side effects.

Examples

```
## Not run: agentic()
```

agentic_chat

<i>Chat with the agent</i>

Description

Send a single natural language query to the LLM agent and get a response. Useful for programmatic use or one-off queries without entering the interactive REPL.

Usage

```
agentic_chat(query)
```

Arguments

query	The natural language query string.
-------	------------------------------------

Value

Invisible. Agent output is printed to the console.

Examples

```
## Not run: agentic_chat("what is the mean of mpg?")
```

agentic_config	<i>Read and manage configuration</i>
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Description

Read, update, and persist agenticr configuration. Switching providers auto-loads the provider's defaults (model, base URL, context window).

Usage

```
agentic_config(..., save = FALSE)
```

Arguments

...	Named arguments to set: provider, api_key, model, base_url, temperature, max_tokens, reasoning_effort, max_turn_tokens, max_context_tokens.
save	If TRUE, save configuration to agenticr config file.

Details

reasoning_effort controls DeepSeek's thinking depth. Valid values: "minimal", "low", "medium", "high". Default is "medium".

When switching provider (e.g. provider = "openai"), the preset model and base URL are auto-loaded. Individual fields can be overridden.

Value

Invisibly returns the updated config list.

Examples

```
cfg <- agentic_config()
cat("Default provider:", cfg$provider, "\n")
```

agentic_disable	<i>Disable error interceptor</i>
-----------------	----------------------------------

Description

See package documentation for details.

Usage

```
agentic_disable()
```

Value

No return value, called for side effects.

Examples

```
agentic_enable()
agentic_disable()
```

agentic_enable	<i>Enable error interceptor</i>
----------------	---------------------------------

Description

See package documentation for details.

Usage

```
agentic_enable(auto_process = TRUE)
```

Arguments

`auto_process` If TRUE, processes NL errors with the LLM agent.

Value

No return value, called for side effects.

Examples

```
agentic_enable()
# Normal R code runs directly without involving the LLM
mean(1:10)
agentic_disable()
```

agentic_install_skill	<i>Install a skill from a URL</i>
-----------------------	-----------------------------------

Description

Downloads a SKILL.md file from a URL and installs it to `agenticr_data` directory. Skills are opt-in prompt templates that modify agent behavior.

Usage

```
agentic_install_skill(url, name = NULL)
```

Arguments

- url URL to the SKILL.md file (raw GitHub URL or similar).
- name Skill name (optional; derived from URL if NULL).

Value

Invisible.

Examples

```
## Not run: agentic_install_skill("https://raw.githubusercontent.com/user/skill/main/SKILL.md")
```

agentic_mcp	List connected MCP servers
-------------	----------------------------

Description

See package documentation for details.

Usage

```
agentic_mcp()
```

Value

No return value, called for side effects.

Examples

```
agentic_mcp()
```

agentic_mcp_add	Add an MCP server
-----------------	-------------------

Description

Connect to an external Model Context Protocol (MCP) server via JSON-RPC over stdio. Tools from the server are merged into the agent’s tool list.

Usage

```
agentic_mcp_add(name, command, args = character(0), env = list(), save = FALSE)
```

Arguments

name	Server name for display and tool prefixing (e.g. "filesystem").
command	Executable to run (e.g. "npx", "node", "python").
args	Command-line arguments.
env	Environment variables as a named list.
save	If TRUE, persist the server config to agentict config file.

Value

Invisible.

Examples

```
## Not run: agentic_mcp_add("search", "npx", args = c("-y", "mcp-server"))
```

agentic_process	<i>Process a single natural language query</i>
-----------------	--

Description

Internal function that processes a query through the agent loop. This is what the error interceptor calls when it detects natural language input.

Usage

```
agentic_process(query)
```

Arguments

query	The natural language query to process.
-------	--

Value

Invisible. Results are printed to the console.

Examples

```
## Not run: agentic_process("what is 2+2?")
```

agentic_providers	List available provider presets
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Description

See package documentation for details.

Usage

```
agentic_providers()
```

Value

No return value, called for side effects.

Examples

```
agentic_providers()
```

agentic_resume	Resume a previous agentic session
----------------	-----------------------------------

Description

Resume a previous agentic session from its turns.jsonl log file. Restores conversation history so the agent has full context of the prior session.

Usage

```
agentic_resume(session_id, ...)
```

Arguments

session_id	Session ID (e.g. "20250515_120000_a1b2c3d4"). Use agentic_sessions() to list available IDs.
...	Not used

Value

Invisible. Starts the REPL with prior conversation restored.

Examples

```
## Not run:
agentic_sessions()
agentic_resume("20250515_120000_a1b2c3d4")

## End(Not run)
```

agentic_sessions	<i>List available sessions for resuming</i>
------------------	---

Description

See package documentation for details.

Usage

```
agentic_sessions()
```

Value

No return value, called for side effects.

Examples

```
agentic_sessions()
```

agentic_setup	<i>Interactive setup wizard</i>
---------------	---------------------------------

Description

Walks the user through configuring an API key and provider interactively. Creates agenticr config file if it does not exist.

Usage

```
agentic_setup()
```

Details

The wizard prompts for API key, provider, and optional model override. Configuration is saved to agenticr config file and can be edited manually later.

Value

Invisible.

Examples

```
## Not run: agentic_setup()
```

<code>agentic_skills</code>	<i>List installed skills</i>
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Description

See package documentation for details.

Usage

```
agentic_skills()
```

Value

No return value, called for side effects.

Examples

```
agentic_skills()
```

<code>print.agenticr_config</code>	<i>Print agentict configuration</i>
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Description

Pretty-prints the current agentict configuration using cli formatting. Shows provider, model, temperature, max tokens, and API key status (masked).

Usage

```
## S3 method for class 'agentict_config'  
print(x, ...)
```

Arguments

<code>x</code>	An agentict_config object (from <code>agentic_config()</code>).
<code>...</code>	Additional arguments (ignored).

Value

Invisibly returns `x`.

Examples

```
## Not run: agentic_config()
```

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