Package: hellorust (via r-universe)

August 24, 2024

Type Package

Title Minimal Examples of Using Rust Code in R

Version 1.2.1

Description Template R package with minimal setup to use Rust code in R without hacks or frameworks. Includes basic examples of importing cargo dependencies, spawning threads and passing numbers or strings from Rust to R. Cargo crates are automatically 'vendored' in the R source package to support offline installation. The GitHub repository for this package has more details and also explains how to set up CI. This project was first presented at 'Erum2018' to showcase R-Rust integration <https://jeroen.github.io/erum2018/>; for a real world use-case, see the 'gifski' package on 'CRAN'.

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URL https://github.com/r-rust/hellorust

BugReports https://github.com/r-rust/hellorust/issues

SystemRequirements Cargo (Rust's package manager), rustc

Encoding UTF-8

RoxygenNote 7.2.1

Repository https://r-rust.r-universe.dev

RemoteUrl https://github.com/r-rust/hellorust

RemoteRef HEAD

RemoteSha 43169af14c1250409c5279703ea41355b6b826a5

Contents

`hello` *Hello Rust!*

Description

Minimal examples of calling rust functions in R via C.

Usage

```
hello()

random()

runthreads()
```

Details

These functions call out to rust functions defined in the ‘myrustlib‘ cargo crate which is embedded in this package. They return values generated in Rust, such as a UTF-8 string or random number. In addition, ‘runthreads‘ is an example of a multi-threaded rust function.

Value

a value generated in Rust (a string, random number, and NULL respectively).

Examples

```
hello()
random()
runthreads()
```

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