Package: mediationverse (via r-universe)

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Type Package

Title Ecosystem for Mediation Analysis in R

Version 0.1.1

Maintainer Davood Tofighi <dtofighi@gmail.com>

Description A meta-package that loads the core packages in the mediation analysis ecosystem: 'medfit' (infrastructure) and 'RMediation' (confidence intervals). This package simplifies installation and provides a unified entry point for mediation analysis in R. Inspired by the 'tidyverse' and 'easystats' ecosystems.

License GPL (>= 3)

URL https://Data-Wise.github.io/mediationverse/, https://github.com/Data-Wise/mediationverse

BugReports https://github.com/Data-Wise/mediationverse/issues

Depends R (>= 4.1.0)

Imports cli, medfit (>= 0.2.0)

Remotes Data-Wise/medsim, Data-Wise/medrobust, Data-Wise/probmed

Suggests knitr, lavaan, medrobust, medsim, pak, probmed, quarto, remotes, rmarkdown, RMediation, rprojroot, testthat (>= 3.0.0)

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`mediationverse_conflicts` *Show mediationverse Conflicts*

Description

Identifies functions that are exported by multiple mediationverse packages, which could lead to masking issues.

Usage

```
mediationverse_conflicts(only_loaded = TRUE)
```

Arguments

`only_loaded`	Logical. Only check currently loaded packages? Default is TRUE.

Details

When multiple packages export a function with the same name, R uses the version from the package that was loaded last. This function helps identify such conflicts so you can use explicit namespacing (e.g., `medfit::extract_mediation()`) when needed.

Value

A data frame with columns:

- `function_name`: Name of the conflicting function
- `packages`: Character vector of packages exporting this function
- `winner`: The package whose version will be used (last loaded)

Examples

```
## Not run:
# Show conflicts among loaded mediationverse packages
mediationverse_conflicts()

## End(Not run)
```

`mediationverse_packages`

List mediationverse Packages

Description

Lists all core packages in the mediationverse ecosystem along with their installation status and versions.

Usage

```
mediationverse_packages(include_self = TRUE)
```

Arguments

`include_self`	Logical. Include mediationverse itself in the list? Default is TRUE.

Value

A data frame with columns:

- `package`: Package name
- `installed`: Logical, whether package is installed
- `version`: Package version (NA if not installed)
- `attached`: Logical, whether package is currently attached

Examples

```
mediationverse_packages()
```

mediationverse_sitrep *Situation Report for the mediationverse Ecosystem*

Description

Prints a summary of the installed mediationverse packages, their versions, and installation sources. Inspired by `tidyverse::tidyverse_sitrep()`.

Usage

```
mediationverse_sitrep()
```

Value

Invisibly returns a data frame with package status. Called for its side effect of printing the situation report.

Examples

```
mediationverse_sitrep()
```

mediationverse_update *Update mediationverse Packages*

Description

Updates all mediationverse packages to their latest versions from GitHub or CRAN.

Usage

```
mediationverse_update(packages = NULL, ...)
```

Arguments

packages	Character vector of package names to update. Default is all core packages.
...	Additional arguments passed to the installation function.

Details

This function uses `pak::pak()` if available (recommended), otherwise falls back to `remotes::install_github()` for GitHub packages and `utils::install.packages()` for CRAN packages.

Package sources:

- **mediationverse**: GitHub (data-wise/mediationverse)
- **medfit**: GitHub (data-wise/medfit) — CRAN has 0.3.2, which predates two result-changing fixes in 0.5.0 (serial `te()`/`pm()` and `confint(parm = "paths")`)
- **probmed**: GitHub (data-wise/probmed)
- **RMediation**: CRAN
- **medrobust**: GitHub (data-wise/medrobust)
- **medsim**: GitHub (data-wise/medsim)
- **missingmed**: GitHub (data-wise/missingmed)

Value

Invisibly returns a character vector of updated package names.

Examples

```
## Not run:
# Update all packages
mediationverse_update()

# Update specific packages
mediationverse_update(c("medfit", "probmed"))

## End(Not run)
```

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