Package ‘riskmetric’

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Type Package

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Description Facilities for assessing R packages against a number of metrics to help quantify their robustness.

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**all_assessments**

A default list of assessments to perform for each package

**Description**

A default list of assessments to perform for each package

**Usage**

```r
all_assessments()
```

**Value**

A list of `assess_*` functions exported from `riskmetric`

**assessment_error_as_warning**

Error handler for assessments to deescalate errors to warnings

**Description**

Error handler for assessments to deescalate errors to warnings

**Usage**

```r
assessment_error_as_warning(e, name, assessment)
```

**Arguments**

- `e` an error raised during a package reference assessment
- `name` the name of the package whose package reference assessment raised the error
- `assessment` the name of the assessment function which raised the error

**Value**

A `pkg_metric` object of `pkg_metric_error` subclass

**See Also**

Other assessment error handlers: `assessment_error_empty()`, `assessment_error_throw()`
### assessment_error_empty

*Error handler for assessments with safe fallback*

**Description**

Error handler for assessments with safe fallback

**Usage**

```python
assessment_error_empty(e, ...)  
```

**Arguments**

- `e`: an error raised during a package reference assessment
- `...`: additional arguments unused

**Value**

a pkg_metric object of pkg_metric_error subclass

**See Also**

Other assessment error handlers: `assessment_error_as_warning()`, `assessment_error_throw()`

### assessment_error_throw

*Error handler for assessments to throw error immediately*

**Description**

Error handler for assessments to throw error immediately

**Usage**

```python
assessment_error_throw(e, name, assessment)  
```

**Arguments**

- `e`: an error raised during a package reference assessment
- `name`: the name of the package whose package reference assessment raised the error
- `assessment`: the name of the assessment function which raised the error

**Value**

the error encountered during assessment
assess_covr_coverage

See Also

Other assessment error handlers: assessment_error_as_warning(), assessment_error_empty()

assess_covr_coverage Assess a package code coverage using the 'covr' package

Description

Assess a package code coverage using the 'covr' package

Usage

assess_covr_coverage(x, ...)

Arguments

x a pkg_ref package reference object
...
additional arguments passed on to S3 methods, rarely used

Value

a pkg_metric containing a list containing fields 'filecoverage' and 'totalcoverage' containing a named numeric vector of file unit test coverage and a singular numeric value representing overall test coverage respectively.

See Also

metric_score.pkg_metric_covr_coverage

Examples

## Not run:
assess_covr_coverage(pkg_ref("riskmetric"))

## End(Not run)
assess_downloads_1yr  Assess a package for the number of downloads in the past year

Description

Assess a package for the number of downloads in the past year

Usage

assess_downloads_1yr(x, ...)

Arguments

x  a pkg_ref package reference object

...  additional arguments passed on to S3 methods, rarely used

Details

The more times a package has been downloaded the more extensive the user testing and the greater chance there is of someone finding a bug and logging it.

Value

a pkg_metric containing a numeric value between [0,1] indicating the volume of downloads

See Also

metric_score.pkg_metric_downloads_1yr

Examples

### Not run:
assess_downloads_1yr(pkg_ref("riskmetric"))

### End(Not run)

assess_exported_namespace

Assess a package’s results from running R CMD check

Description

Assess a package’s results from running R CMD check

Usage

assess_exported_namespace(x, ...)

assess_exported_namespace

Assess a package’s results from running R CMD check
assess_export_help

Arguments

  x  a pkg_ref package reference object
  ... additional arguments passed on to S3 methods, rarely used

Value

  a pkg_metric containing List of functions and objects exported by a package, excluding S3 methods

See Also

  metric_score.pkg_metric_exported_namespace

Examples

  ## Not run:
  assess_exported_namespace(pkg_ref("riskmetric"))
  ## End(Not run)

assess_export_help  Assess a package for availability of documentation for exported values

Description

Assess a package for availability of documentation for exported values

Usage

  assess_export_help(x, ...)

Arguments

  x  a pkg_ref package reference object
  ... additional arguments passed on to S3 methods, rarely used

Value

  a pkg_metric containing a logical vector indicating existence of documentation for each namespace export

See Also

  metric_score.pkg_metric_export_help
assess_has_bug_reports_url

Assess a package for the presence of a url field where bugs can be reported.

Description

Assess a package for the presence of a url field where bugs can be reported.

Usage

assess_has_bug_reports_url(x, ...)

Arguments

x  a pkg_ref package reference object
...

additional arguments passed on to S3 methods, rarely used

Value

a pkg_metric containing a character value containing the BugReports field contents

See Also

metric_score.pkg_metric_has_bug_reports_url

Examples

## Not run:
assess_has_bug_reports_url(pkg_ref("riskmetric"))
## End(Not run)
**assess_has_maintainer**  
*Assess a package for an associated maintainer*

**Description**
Assess a package for an associated maintainer

**Usage**
```r
assess_has_maintainer(x, ...)
```

**Arguments**
- `x`: a `pkg_ref` package reference object
- `...`: additional arguments passed on to S3 methods, rarely used

**Value**
a `pkg_metric` containing a character vector of maintainers associated with the package

**See Also**
- `metric_score.pkg_metric_has_maintainer`

**Examples**
```r
## Not run:
assess_has_maintainer(pkg_ref("riskmetric"))
## End(Not run)
```

---

**assess_has_news**  
*Assess a package for the presence of a NEWS file*

**Description**
Assess a package for the presence of a NEWS file

**Usage**
```r
assess_has_news(x, ...)
```

**Arguments**
- `x`: a `pkg_ref` package reference object
- `...`: additional arguments passed on to S3 methods, rarely used

---
assess_has_source_control

Assess a package for an associated source control url

Description
Assess a package for an associated source control url

Usage
assess_has_source_control(x, ...)

Arguments
x a pkg_ref package reference object
...

Value
a pkg_metric containing a character vector of source control urls associated with the package

See Also
metric_score.pkg_metric_has_source_control

Examples
## Not run:
assess_has_source_control(pkg_ref("riskmetric"))
## End(Not run)
assess_has_vignettes  Assess a package for the presence of Vignettes files

Description
Assess a package for the presence of Vignettes files

Usage
assess_has_vignettes(x, ...)

Arguments
x  a pkg_ref package reference object
... additional arguments passed on to S3 methods, rarely used

Value
a pkg_metric containing an integer value indicating the number of discovered vignettes files

See Also
metric_score.pkg_metric_has_vignettes

Examples
## Not run:
assess_has_vignettes(pkg_ref("riskmetric"))

## End(Not run)

assess_has_website  Assess a package for an associated website url

Description
Assess a package for an associated website url

Usage
assess_has_website(x, ...)

Arguments
x  a pkg_ref package reference object
... additional arguments passed on to S3 methods, rarely used
assess_last_30_bugs_status

Value

a pkg_metric containing a character vector of website urls associated with the package

See Also

metric_score.pkg_metric_has_website

Examples

## Not run:
assess_last_30_bugs_status(pkg_ref("riskmetric"))
## End(Not run)

assess_last_30_bugs_status

Assess how many recent BugReports have been closed

Description

Assess how many recent BugReports have been closed

Usage

assess_last_30_bugs_status(x, ...)

Arguments

x

a pkg_ref package reference object

... additional arguments passed on to S3 methods, rarely used

Value

a pkg_metric containing a logical vector indicating whether a recent BugReport was closed

See Also

metric_score.pkg_metric_last_30_bugs_status

Examples

## Not run:
assess_last_30_bugs_status(pkg_ref("riskmetric"))
## End(Not run)
assess_license

Assess a package for an acceptable license

Description
Assess a package for an acceptable license

Usage
assess_license(x, ...)

Arguments

  x  a pkg_ref package reference object
  ... additional arguments passed on to S3 methods, rarely used

Value
a pkg_metric containing a string indicating the license under which the package is released

See Also
metric_score.pkg_metric_license

Examples

  ## Not run:
  assess_license(pkg_ref("riskmetric"))
  ## End(Not run)

assess_news_current

Assess a package for an up-to-date NEWS file

Description
Assess a package for an up-to-date NEWS file

Usage
assess_news_current(x, ...)

Arguments

  x  a pkg_ref package reference object
  ... additional arguments passed on to S3 methods, rarely used
assess_remote_checks

Assess package checks from CRAN/Bioc or R CMD check

Description
Assess package checks from CRAN/Bioc or R CMD check

Usage
assess_remote_checks(x, ...)

Arguments
x               a pkg_ref package reference object
...            additional arguments passed on to S3 methods, rarely used

Value
a pkg_metric containing Tally of R CMD check results run on different OS flavors by BioC or CRAN

See Also
metric_score.pkg_metric_remote_checks

Examples
## Not run:
assess_remote_checks(pkg_ref("riskmetric"))
## End(Not run)
assess_r_cmd_check

Assess a package’s results from running R CMD check

Description

Assess a package’s results from running R CMD check

Usage

assess_r_cmd_check(x, ...)

Arguments

x
a pkg_ref package reference object

Additional arguments passed on to S3 methods, rarely used

Value

a pkg_metric containing Tally of errors, warnings and notes from running R CMD check locally

See Also

metric_score.pkg_metric_r_cmd_check

Examples

## Not run:
assess_r_cmd_check(pkg_ref("riskmetric"))

## End(Not run)

as_pkg_metric

Convert an object to a pkg_metric

Description

Convert an object to a pkg_metric

Usage

as_pkg_metric(x, class = c())

Arguments

x
data to store as a pkg_metric

class
a subclass to differentiate the pkg_metric object
### get_pkg_ref_classes

**Walk the pkg_ref class hierarchy to match a single subclass to a class path**

**Description**

Walk the pkg_ref class hierarchy to match a single subclass to a class path

**Usage**

```
get_pkg_ref_classes(x, classes = pkg_ref_class_hierarchy)
```

**Arguments**

- `x` ('character(1L)') A subclass, among those known in pkg_ref subclasses
- `classes` ('list') A class hierarchy, described using a named list. Defaults to `pkg_ref_class_hierarchy`.

**Value**

A 'character(n)' class path from 'pkg_ref' down to the specified subclass, or 'FALSE' if no path is found.

### metric_score

**Score a package metric**

**Description**

Convert a package metric into a numeric value between 0 to 1

**Usage**

```
metric_score(x, ...)
```

**Arguments**

- `x` A pkg_metric_* class object to score
- `...` Additional arguments unused

**Value**

Score of a package risk metric
**metric_score.pkg_metric_covr_coverage**

*Score a package for unit test coverage*

**Description**

Returns the overall test coverage from a covr coverage report

**Usage**

```r
## S3 method for class 'pkg_metric_covr_coverage'
metric_score(x, ...)
```

**Arguments**

- `x`: a `pkg_metric_covr_coverage` package metric object
- `...`: additional arguments unused

**Value**

A numeric

**Examples**

```r
## Not run: metric_score(assess_covr_coverage(pkg_ref("riskmetric")))
```

---

**metric_score.pkg_metric_downloads_1yr**

*Defining an Assessment Scoring Function*

**Description**

Score a package for the number of downloads in the past year regularized. Convert the number of downloads \( x \) in the past year into a validation score \([0,1]\) \[1 - 150,000/(x + 150,000)\]

**Usage**

```r
## S3 method for class 'pkg_metric_downloads_1yr'
metric_score(x, ...)
```

**Arguments**

- `x`: a `pkg_metric_downloads_1yr` package metric object
- `...`: additional arguments unused
Details

The scoring function is a simplification of the classic logistic curve

\[
\frac{1}{1 + \exp(-k(x - x[0]))}
\]

with a log scale for the number of downloads \(x = \log(x)\), sigmoid midpoint is 1000 downloads, ie. \(x[0] = \log(1,000)\), and logistic growth rate of \(k = 0.5\).

\[
1 - \frac{1}{1 + \exp(\log(x) - \log(1.5e5))} = 1 - \frac{150,000}{(x + 150,000)}
\]

Value

numeric value between 0 (low) and 1 (high download volume) converting the number of downloads.

Examples

```r
## Not run: metric_score(assess_downloads_1yr(pkg_ref("riskmetric")))
```

metric_score.pkg_metric_exported_namespace

Score a package for the number of exported objects

Description

Count the number of exported objects (excluding S3Methods) and divide by 100

Usage

```r
## S3 method for class 'pkg_metric_exported_namespace'
metric_score(x, ...)
```

Arguments

- `x`: a pkg_metric_exported_namespace packge metric object
- `...`: additional arguments unused

Value

numeric value

Examples

```r
## Not run: metric_score(assess_exported_namespace(pkg_ref("riskmetric")))
```
**metric_score.pkg_metric_export_help**

*Score a package for availability of documentation for exported values*

**Description**

Coerce a logical vector indicating availability of export documentation.

**Usage**

```r
## S3 method for class 'pkg_metric_export_help'
metric_score(x, ...)
```

**Arguments**

- `x`: a `pkg_metric_export_help` package metric object
- `...`: additional arguments unused

**Value**

1 if any NEWS files are found, otherwise 0

**Examples**

```r
## Not run: metric_score(assess_export_help(pkg_ref("riskmetric")))
```

---

**metric_score.pkg_metric_has_bug_reports_url**

*Score a package for the presence of a bug report url*

**Description**

Score a package for the presence of a bug report url.

**Usage**

```r
## S3 method for class 'pkg_metric_has_bug_reports_url'
metric_score(x, ...)
```

**Arguments**

- `x`: a `pkg_metric_has_bug_reports_url` package metric object
- `...`: additional arguments unused
Value

A logical value indicating whether the package has a BugReports field filled in.

Examples

```r
## Not run: metric_score(assess_has_bug_reports_url(pkg_ref("riskmetric")))
```

Description

Coerce a list of maintainers into a numeric value indicating whether the number of listed maintainers is greater than 0.

Usage

```
## S3 method for class 'pkg_metric_has_maintainer'
metric_score(x, ...)
```

Arguments

- `x` (a `pkg_metric_has_maintainer` package metric object)
- `...` (additional arguments unused)

Value

1 if any maintainer is provided, otherwise 0.

Examples

```r
## Not run: metric_score(assess_has_maintainer(pkg_ref("riskmetric")))
```
metric_score.pkg_metric_has_news

Score a package for the presence of a NEWS file

Description
Coerce the number of news files to binary indication of valid NEWS files

Usage
## S3 method for class 'pkg_metric_has_news'
metric_score(x, ...)

Arguments
x  a pkg_metric_has_news package metric object
...
additional arguments unused

Value
1 if any NEWS files are found, otherwise 0

Examples
## Not run: metric_score(assess_has_news(pkg_ref("riskmetric")))

metric_score.pkg_metric_has_source_control

Score a package for inclusion of an associated source control url

Description
Coerce a list of source control urls into a numeric value indicating whether the number of listed urls is greater than 0.

Usage
## S3 method for class 'pkg_metric_has_source_control'
metric_score(x, ...)

Arguments
x  a pkg_metric_has_source_control package metric object
...
additional arguments unused
Value

1 if any source control url is provided, otherwise 0

Examples

```r
## Not run: metric_score(assess_has_source_control(pkg_ref("riskmetric")))
```

---

**metric_score.pkg_metric_has_vignettes**

_Score a package for the presence of a Vignettes file_

---

Description

Coerce the number of vignettes files to binary indication of valid Vignettes

Usage

```r
## S3 method for class 'pkg_metric_has_vignettes'
metric_score(x, ...)
```

Arguments

- `x` a `pkg_metric_has_vignettes` package metric object
- `...` additional arguments unused

Value

1 if any Vignettes files are found, otherwise 0

Examples

```r
## Not run: metric_score(assess_has_vignettes(pkg_ref("riskmetric")))
```
Score a package for inclusion of an associated website url

Description
Coerce a list of website urls into a numeric value indicating whether the number of listed urls is greater than 0.

Usage
## S3 method for class 'pkg_metric_has_website'
metric_score(x, ...)

Arguments
x  a pkg_metric_has_website package metric object
... additional arguments unused

Value
1 if any website url is provided, otherwise 0

Examples
## Not run: metric_score(assess_has_website(pkg_ref("riskmetric")))

Score a package for number of recently opened BugReports that are now closed

Description
Score a package for number of recently opened BugReports that are now closed

Usage
## S3 method for class 'pkg_metric_last_30_bugs_status'
metric_score(x, ...)

Arguments
x  a pkg_metric_last_30_bugs_status package metric object
... additional arguments unused
Value

a fractional value indicating percentage of last 30 bug reports that are now closed

Examples

```r
## Not run: metric_score(assess_last_30_bugs_status(pkg_ref("riskmetric")))
```

---

**metric_score.pkg_metric_license**

*Score a package for acceptable license*

Description

Maps a license string to a score

Usage

```r
## S3 method for class 'pkg_metric_license'
metric_score(x, ...)
```

Arguments

- `x` a pkg_metric_license package metric object
- `...` additional arguments unused

Value

score of metric license

Examples

```r
## Not run: metric_score(assess_license(pkg_ref("riskmetric")))
```
**metric_score.pkg_metric_news_current**

*Score a package for NEWS files updated to current version*

**Description**

Coerce a logical vector of discovered up-to-date NEWS to a metric score

**Usage**

```r
## S3 method for class 'pkg_metric_news_current'
metric_score(x, ...)
```

**Arguments**

- `x`: a `pkg_metric_news_current` package metric object
- `...`: additional arguments unused

**Value**

1 if any NEWS files are up-to-date, otherwise 0

**Examples**

```r
## Not run: metric_score(assess_news_current(pkg_ref("riskmetric")))
```

---

**metric_score.pkg_metric_remote_checks**

*Score a package based on R CMD check results run by BioC or CRAN*

**Description**

The scoring function is the number of OS flavors that passed with OK or NOTES + 0.5*the number of OS’s that produced WARNINGS divided by the number of OS’s checked

**Usage**

```r
## S3 method for class 'pkg_metric_remote_checks'
metric_score(x, ...)
```

**Arguments**

- `x`: a `pkg_metric_remote_checks` package metric object
- `...`: additional arguments unused
Value

a fractional value indicating percentage OS flavors that did not produce an error or warning from R CMD check

Examples

## Not run: metric_score(assess_remoteChecks(pkg_ref("riskmetric")))

---

metric_score.pkg_metric_r_cmd_check

Score a package based on R CMD check results run locally

Description

The scoring function is

Usage

## S3 method for class 'pkg_metric_r_cmd_check'
metric_score(x, ...)

Arguments

x a pkg_metric_r_cmd_check package metric object

... additional arguments unused

Value

A weighted sum of errors and warnings of all tests performed

Examples

## Not run: metric_score(assess_r_cmd_check(pkg_ref("riskmetric")))
pkg_assess

Apply assess_* family of functions to a package reference

Description

By default, use all assess_* functions in the riskmetric namespace and produce a tibble with one column per assessment applied.

Usage

pkg_assess(
  x,
  assessments = all_assessments(),
  ...,  
  error_handler = assessment_error_empty
)

Arguments

x  A single pkg_ref object or tibble of package references to assess
assessments  A list of assessment functions to apply to each package reference. By default, a list of all exported assess_* functions from the riskmetric package.
...  additional arguments unused
error_handler  A function, which accepts a single parameter expecting the raised error, which will be called if any errors occur when attempting to apply an assessment function.

Value

Either a list_of_pkg_metric object when a single pkg_ref object is passed as x, or a tibble of metrics when a list_of_pkg_ref or tibble is passed as x. When a tibble is returned, it has one row per package reference and a new column per assessment function, with cells of that column as package metric objects returned when the assessment was called with the associated package reference.

Assessment function catalog

- **assess_remote_checks**  Number of OS flavors that passed/warned/errored on R CMD check
- **assess_has_news**  number of discovered NEWS files
- **assess_last_30_bugs_status**  vector indicating whether BugReports status is closed
- **assess_export_help**  exported objects have documentation
- **assess_downloads_1yr**  number of downloads in the past year
- **assess_has_website**  a vector of associated website urls
- **assess_has_source_control**  a vector of associated source control urls
assess_license  software is released with an acceptable license
assess_news_current NEWS file contains entry for current version number
assess_covr_coverage Package unit test coverage
assess_r_cmd_check Package check results
assess_exported_namespace Objects exported by package
assess_has_maintainer a vector of associated maintainers
assess_has_vignettes number of discovered vignettes files
assess_has_bug_reports_url presence of a bug reports url in repository

pkg_metric

A helper for structuring assessment return objects for dispatch with the score function

Description

A helper for structuring assessment return objects for dispatch with the score function

Usage

pkg_metric(x = NA, ..., class = c())

Arguments

x data to store as a pkg_metric
... additional attributes to bind to the pkg_metric object
class a subclass to differentiate the pkg_metric object

Value

a pkg_metric object

pkg_ref

Create a package reference

Description

Create a package reference from package name or filepath, producing an object in which package metadata will be collected as risk assessments are performed. Depending on where the package was found - whether it is found as source code, in a local library or from a remote host - an S3 subclass is given to allow for source-specific collection of metadata. See 'Details' for a breakdown of subclasses. Different sources can be specified by passing a subclass as an argument named 'source', see details.
pkg_ref

Usage

pkg_ref(x, ...)

pkg_install(x, lib.loc = NULL)
pkg_source(x)
pkg_cran(x, repos = getOption("repos", "https://cran.rstudio.com"))
pkg_bioc(x)
pkg_missing(x)
pkg_library(lib.loc)
as_pkg_ref(x, ...)

Arguments

x A singular character value, character vector or list of character values
 of package names or source code directory paths.

... Additional arguments passed to methods.

lib.loc The path to the R library directory of the installed package.

repos URL of CRAN repository to pull package metadata.

Details

Package reference objects are used to collect metadata pertaining to a given package. As data is
needed for assessing a package’s risk, this metadata populates fields within the package reference
object.

The pkg_ref S3 subclasses are used extensively for divergent metadata collection behaviors depen-
dent on where the package was discovered. Because of this, there is a rich hierarchy of subclasses
to articulate the different ways package information can be found.

A source argument can be passed using the ‘source’ argument. This will override the logic that
riskmetric does when determining a package source. This can be useful when you are scoring the
most recent version present on a repository, or testing a specific library.

- pkg_ref A default class for general metadata collection.
  - pkg_source A reference to a source code directory.
  - pkg_install A reference to a package installation location in a package library. A spe-
    cific library can be passed by passing the path to the library as the parameter ‘lib.loc’
  - pkg_remote A reference to package metadata on a remote server.
    * pkg_cran_remote A reference to package information pulled from the CRAN repos-
      itory.
    * pkg_bioc_remote A reference to package information pulled from the Bioconductor
      repository.
* pkg_git_remote A reference to a package source code git repository. (not yet implemented)

Value

When a single value is provided, a single pkg_ref object is returned, possibly with a subclass based on where the package was found. If a vector or list is provided, a list_of_pkg_ref object constructed with list_of is returned, which can be considered analogous to a list. See 'Details' for further information about pkg_ref subclasses.

Package Cohorts

*Experimental!* Package cohorts are structures to determine the risk of a set of packages. ‘pkg_library()’ can be called to create a object containing the pkg_ref objects of all packages in a system library.

Examples

```
## Not run:
# riskmetric will check for installed packages by default
ref_1 <- pkg_ref("utils")
ref_1$source # returns 'pkg_install'

# lib.loc can be used to specify a library for pkg_install
ref_3 <- pkg_ref("utils", source = "pkg_install", lib.loc = .libPaths()[1])

# You can also override this behavior with a source argument
ref_2 <- pkg_ref("utils", source = "pkg_cran_remote")
ref_2$source # returns 'pkg_cran_remote'
## End(Not run)
```

pkg_ref_cache.r_cmd_check.pkg_source

Run R CMD check and capture the results

Description

Run R CMD check and capture the results

Usage

```
## S3 method for class 'r_cmd_check.pkg_source'
pkg_ref_cache(x, ...)
```

Arguments

- `x` a package reference object
- `...` additional arguments used for computing cached values
pkg_ref_class_hierarchy

Value

a pkg_ref object

pkg_ref_class_hierarchy

The 'pkg_ref' subclass hierarchy, used for pkg_ref object creation with a specified subclass

Description

The ‘pkg_ref’ subclass hierarchy, used for pkg_ref object creation with a specified subclass

Usage

pkg_ref_class_hierarchy

Format

An object of class list of length 1.

pkg_score

Score a package assessment, collapsing results into a single numeric

Description

pkg_score() calculates the risk involved with using a package. Risk ranges from 0 (low-risk) to 1 (high-risk).

Usage

pkg_score(x, ..., error_handler = score_error_default)

Arguments

x A pkg_metric object, whose subclass is used to choose the appropriate scoring method for the atomic metric metadata. Optionally, a tibble can be provided, in which cases all pkg_metric values will be scored.

... Additional arguments passed to summarize_scores when an object of class tbl_df is provided, unused otherwise.

error_handler Specify a function to be called if the class can’t be identified. Most commonly this occurs for pkg_metric objects of subclass pkg_metric_error, which is produced when an error is encountered when calculating an associated assessment.
score_error_default

Value
A numeric value if a single pkg_metric is provided, or a tibble with pkg_metric objects scored and returned as numeric values when a tibble is provided.

See Also
score_error_default score_error_zero score_error_NA

Examples
## Not run:

# scoring a single assessment
metric_score(assess_has_news(pkg_ref("riskmetric")))

# scoring many assessments as a tibble
library(dplyr)
pkg_score(pkg_assess(as_tibble(pkg_ref(c("riskmetric", "riskmetric")))))

## End(Not run)

---

score_error_default Default score error handling, emitting a warning and returning 0

Description
Default score error handling, emitting a warning and returning 0

Usage
score_error_default(x, ...)

Arguments
x A pkg_metric_* class object to score
...
Additional arguments unused

Value
a value of package score
### score_error_NA

**Score error handler to silently return NA**

#### Description
Score error handler to silently return NA

#### Usage
```r
score_error_NA(...)  
```

#### Arguments
...  
Additional arguments unused

#### Value
a value of package score

### score_error_zero

**Score error handler to silently return 0**

#### Description
Score error handler to silently return 0

#### Usage
```r
score_error_zero(...)  
```

#### Arguments
...  
Additional arguments unused

#### Value
a value of package score
summarize_scores  
*Summarize a default set of assessments into a single risk score*

**Description**

This function serves as an example for how a risk score might be derived. Assuming all assessments provided by riskmetric are available in a dataset, this function can be used to calculate a vector of risks.

**Usage**

```r
summarize_scores(data, weights = NULL)
```

**Arguments**

- `data`: a tibble of scored assessments whose column names match those provided by riskmetric’s `pkg_assess` function.
- `weights`: an optional vector of non-negative weights to be assigned to each assessment.

**Value**

A numeric vector of risk scores

**Examples**

```r
## Not run:
library(dplyr)
summarize_scores(pkg_score(pkg_assess(as_tibble(pkg_ref("riskmetric")))))

library(dplyr)
pkg_ref("riskmetric") %>%
pkg_assess() %>%
pkg_score() %>%
summarize_scores()

## End(Not run)
```
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