Package ‘crsmeta’

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Title   Extract Coordinate System Metadata

Version 0.2.0


License GPL-3

Encoding UTF-8

LazyData true

RoxygenNote 7.1.0

Depends R (>= 3.2)

Suggests testthat (>= 2.1.0), spelling

Imports methods

URL https://github.com/hypertidy/crsmeta

BugReports https://github.com/hypertidy/crsmeta/issues

Language en-US

NeedsCompilation no

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R topics documented:

- `crs_epsg` .......................................................... 2
- `crs_proj` .......................................................... 3
- `crs_wkt2` .......................................................... 3
- `sfx` ................................................................. 4

Index

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**`crs_epsg`**

*Extract 'EPSG' value*

**Description**

Obtain the 'EPSG' string from an object, if it has one. Supported inputs include sf.

**Usage**

`crs_epsg(x, ...)`

**Arguments**

- `x` object with 'EPSG' value
- `...` ignored

**Value**

integer (or NA)

**References**

EPSG website

**See Also**

`crs_wkt2()` `crs_proj()`

**Examples**

```r
  crs_epsg(sfx)
  x <- sfx
  attr(x$geom, "crs")$epsg <- NA ## oh no we lost it
  crs_epsg(x)
```
**crs_proj**

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**Extract 'PROJ4' string**

**Description**

Obtain the 'PROJ4' string from an object, if it has one. Supported inputs include raster, sf, sp, and silicate.

**Usage**

```r
crs_proj(x, ...)
```

**Arguments**

- `x` object with 'PROJ4' string
- `...` ignored

**Value**

character string (or NA)

**References**

PROJ system website

**See Also**

crs_epsg() crs_wkt2()

**Examples**

```r
crs_proj(sfx)
crs_proj(sfx$geom)
```

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**crs_wkt2**

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**Extract 'WKT2' string**

**Description**

Obtain the 'WKT2' string from an object, if it has one. Supported inputs include sp and sf.

**Usage**

```r
crs_wkt2(x, ...)
crs_wkt(x, ...)
```
Arguments

x  object with ‘WKT2’ string

Details

The functions `crs_wkt()` and `crs_wkt2()` are aliased, they do the same thing.

Value

character string (or NA)

Warning

For WKT2 only, PROJ6 and beyond

References

WKT2 specification

See Also

`crs_epsg()`  `crs_proj()`  `crs_wkt()`

Examples

`crs_wkt2(sfx)`

`crs_wkt2(sfx$geom)`

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**sfx**  
*Simple features example data*

Description

A copy of the `minimal_mesh` data set from the `silicate` package, with coordinate reference system information added.

Warning

do not use this data in real situations, or as exemplary of the `sf` format. It was created purely to add examples to this package.
Examples

```r
## three equivalent representations, of increasing richness
CRS_epsg(sfx)

CRS_proj(sfx)

CRS_wkt2(sfx)
```
Index

crs_epsg, 2


crs_epsg(), 3, 4
crs_proj, 3
crs_proj(), 2, 4
crs_wkt (crs_wkt2), 3
crs_wkt(), 4
crs_wkt2, 3
crs_wkt2(), 2–4

sfx, 4