Package: deeptimedata (via r-universe)

October 16, 2025

Title Geologic Pattern Data from FGDC Used in 'deeptime'

Version 1.0.0

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Description Geologic pattern data from <https://ngmdb.usgs.gov/fgdc_gds/geolsymstd.php>. Access functions are provided in the accompanying package 'deeptime'.

URL http://williamgearty.com/deeptimedata/, https://github.com/willgearty/deeptimedata

BugReports https://github.com/willgearty/deeptimedata/issues

Depends R (>= 2.10)

License GPL (>= 3)

Encoding UTF-8

RoxygenNote 7.3.2

LazyData true

Suggests grImport2, rsvg, usethis

Roxygen list(markdown = TRUE)

Repository https://r-multiverse-staging.r-universe.dev

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RemoteUrl https://github.com/willgearty/deeptimedata

RemoteRef v1.0.0

RemoteSha 7f1d9e301bac0d580f93c168328ef2aaad490aca

Contents

geo_grobs *FGDC Geologic Pattern Data*

Description

Geologic map and lithology patterns as defined in the FGDC Digital Cartographic Standard for Geologic Map Symbolization by the U.S. Geological Survey and the Geologic Data Subcommittee (GDS) of the Federal Geographic Data Committee (FGDC). `deeptime::geo_grob()` and `deeptime::geo_pattern()` should be used to retrieve and modify an individual pattern as a grob object or GridPattern object, respectively.

Usage

```
geo_grobs
```

Format

A list, where each item corresponds to a geologic pattern stored as a gTree object as returned by `grImport2::pictureGrob()`. The names of the list correspond to the pattern codes.

Details

For specific pattern codes, see the "pattern numbers" in the full pattern chart. Daven Quinn has also assembled more accessible documentation of the map patterns/codes and lithology patterns/codes. `rmacrostrat::def_lithologies()` can also be used to look up pattern codes for various lithologies (see the "fill" column). Note that patterns associated with color variants (e.g., "101-M") are not included but can be created using `deeptime::geo_grob()`.

These patterns were originally processed and optimized by Daven Quinn and are hosted on GitHub.

Source

`https://ngmdb.usgs.gov/fgdc_gds/geolsymstd.php` via `https://github.com/davenquinn/geologic-patterns`

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