Package 'DOPE'

May 7, 2026

Title Drug Ontology Parsing Engine

Version 2.1.0

Description Provides information on drug names (brand, generic and street) for drugs tracked by the DEA. There are functions that will search synonyms and return the drug names and types. The vignettes have extensive information on the work done to create the data for the package.

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URL https://ctn-0094.github.io/DOPE/, https://github.com/CTN-0094/DOPE

BugReports https://github.com/CTN-0094/DOPE/issues

Encoding UTF-8

LazyData true

RoxygenNote 7.1.1

Depends R (>= 2.10)

Imports dplyr, magrittr, stats, stringr, tibble, tidytext, utils

Suggests purrr, knitr, rmarkdown, conflicted, readr, rvest, sqldf, tidyr, testthat, usethis, xml2

VignetteBuilder knitr

NeedsCompilation no

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Repository CRAN

Date/Publication 2021-06-18 18:40:02 UTC

Contents

`compress_lookup` *Collapse Redundant Rows of a Lookup Table*

Description

Given a Drug Lookup table as returned by the function `lookup`, collapse rows from unwanted columns

Usage

```
compress_lookup(
  lookupTable,
  compressOriginalWord = FALSE,
  compressClass = FALSE,
  compressCategory = FALSE,
  compressSynonym = TRUE
)
```

Arguments

`lookupTable`	A lookup table with category `data.frame` having three columns: drug class, drug category, and drug street name. These tables are returned by the function `lookup`.
`compressOriginalWord`	Should the search word(s) be collapsed? Defaults to `FALSE`.
`compressClass`	Should the drug class be collapsed? Defaults to `FALSE`.
`compressCategory`	Should the drug category be collapsed? Defaults to `FALSE`.
`compressSynonym`	Should the drug synonym / street name be collapsed? Defaults to `TRUE`.

Value

A compressed lookup table, with unwanted columns removed.

Examples

```
longExampleTable <- lookup("dope", "methamphetamine")
compress_lookup(longExampleTable)
compress_lookup(longExampleTable, compressCategory = TRUE)
```

---

dea_brands *Drug brand info*

Description

A dataset containing a unique record for each the drug categories and their respective brand names.

Usage

```
data(dea_brands)
```

Format

A tibble with 28 rows and 2 variables:

category the drug category

brands Drug brand name

---

dea_controlled *Drug controlled substance synonyms*

Description

A dataset containing

Usage

```
data(dea_controlled)
```

Format

A tibble with 29 rows and 3 variables:

substance formal drug name

number DEA number

schedule drug schedule number

narcotic Yes No indicator if the drug is a narcotic

synonym synonym name

dea_factsheets *Drug ontology information from https://www.dea.gov/factsheets*

Description

A dataset containing a record for each drug category listed on https://www.dea.gov/factsheets, the class in which that drug belongs in and path to the factsheet.

Usage

```
data(dea_factsheets)
```

Format

A tibble with 29 rows and 3 variables:

class the drug class

category the drug category

fact_path the unique path to the drug's factsheet

Source

https://www.dea.gov/factsheets

dea_street_names *Drug slang from DEA's DIR-020-17 Drug Slang Code Words.pdf*

Description

A dataset containing slag provided by the DEA

Usage

```
data(dea_street_names)
```

Format

A tibble with 1734 rows and 3 variables:

category DEA drug category

brand Brand name of drug

slang slang name

drug_df *Simulated drug data*

Description

A dataset containing a record of drugs used by a patient. The `textdrug` field is unstructured.

Usage

```
data(drug_df)
```

Format

A tibble with 500 rows and 3 variables:

textdrug A free-text field of drug names

sex Patient sex

race Patient race

drug_stop_words *A vector with drug-specific stop words in English*

Description

These are extraneous words or characters found in several clinical data that have been accumulated to form a vector that can be used to parse out drug names from corpus of text.

Usage

```
data(drug_stop_words)
```

Format

A vector with 47 words:

iqvia *Data sent from IQVIA*

Description

A dataset containing a unique record for each the drug names and their classes and categories.

Usage

```
data(iqvia)
```

Format

A tibble with 125 rows and 3 variables:

caegory drug category

class the drug class

synonym drug name

lookup *Make a table with the class and category for a drug name*

Description

This function provides a table with drug class and category information all of the known drugs.

Usage

```
lookup(
  drug_vec = NULL,
  ...,
  searchClass = TRUE,
  searchCategory = TRUE,
  searchSynonym = TRUE
)
```

Arguments

drug_vec	a vector of strings holding possible drug names
...	multiple strings holding possible drug names
searchClass	Should the substances listed in ... be searched for in column class? Defaults to TRUE.
searchCategory	Should the substances listed in ... be searched for in column category? Defaults to TRUE.
searchSynonym	Should the substances listed in ... be searched for in column synonym? Defaults to TRUE.

Value

A lookup table with category `data.frame` having four columns: original search term, drug class, drug category, and drug street name.

Examples

```
lookup("zip", "shrooms")
```

---

lookup_df *A lookup table with drug class, category, and synonyms*

Description

A dataset containing a record for each drug synonym

Usage

```
data(lookup_df)
```

Format

A tibble with 4,296 rows and 3 variables:

class the drug class

category the drug category

synonym drug synonym

---

lookup_syn *Make a table with the class and category for a drug name*

Description

This function provides a table with drug synonyms that have the same class and category as the search term.

Usage

```
lookup_syn(drug_name)
```

Arguments

`drug_name`	a string of a single drug name.

Value

A lookup table with category `data.frame` having three columns: drug class, drug category match, and synonym name.

Examples

```
lookup_syn("zip")
```

`noslang_raw` *Drug terms from https://www.noslang.com/drugs/dictionary*

Description

A dataset containing a record for a drug rleated term and it's description. This contains both drug names and other things like drug amounts.

Usage

```
data(noslang_raw)
```

Format

A tibble with 3172 rows and 2 variables:

street_name Slang term

description Text description of drug term

Source

www.noslang.com

`noslang_street_names` *Drug slang from https://www.noslang.com/drugs/dictionary*

Description

A dataset containing a record for a drug slang term and it's description.

Usage

```
data(noslang_street_names)
```

Format

A tibble with 3172 rows and 2 variables:

street_name Slang term

description Text description of drug term

Source

www.noslang.com

`parse` *Parse a vector of free text containing drug information*

Description

This function provides a dataframe of parsed out strings from a free text field, input as a vector, specified by the user.

Usage

```
parse(drug_vec)
```

Arguments

`drug_vec`	A vector containing the free text to be parsed

Value

A n x 1 vector of class `character`.

Examples

```
parse("Lortab and Percocet")
```

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