

Package ‘hoplon’

June 30, 2023

Title tidy human phenotype ontology

Version 0.0.0.9000

Description Tidy and lightweight handling of human phenotype ontology (HPO) terms.

License MIT + file LICENSE

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.2.3

Depends R (>= 2.10)

Imports dplyr,
magrittr,
purrr,
stringr,
tibble,
tidyr

R topics documented:

ancestors	1
children	2
descendants	3
describe	3
parents	4
parse_hpo	4

ancestors

Return the ancestors of an HPO term

Description

Return the ancestors of an HPO term

Usage

ancestors(term)

Arguments

term Character vector, a valid HPO ID

Value

a character vector where each element is a ancestor term

Examples

```
ancestors("HP:000001")
## Not run:
data %>% mutate(ancestors = ancestors(term))

## End(Not run)
```

children	<i>Return the children of an HPO term</i>
----------	---

Description

Return the children of an HPO term

Usage

```
children(term)
```

Arguments

term Character vector, a valid HPO ID

Value

a character vector where each element is a child term

Examples

```
children("HP:000001")
## Not run:
data %>% mutate(children = children(term))

## End(Not run)
```

descendants	<i>Return the descendants of an HPO term</i>
-------------	--

Description

Return the descendants of an HPO term

Usage

```
descendants(term)
```

Arguments

term	Character vector, a valid HPO ID
------	----------------------------------

Value

a character vector where each element is a descendant term

Examples

```
descendants("HP:000001")
## Not run:
data %>% mutate(descendants = descendants(term))

## End(Not run)
```

describe	<i>Return the description of an HPO term</i>
----------	--

Description

Return the description of an HPO term

Usage

```
describe(term)
```

Arguments

term	Character vector, a valid HPO ID
------	----------------------------------

Value

a character vector of the description (name) of the HPO ID

Examples

```
describe("HP:000001")
```

parents	<i>Return the parents of an HPO term</i>
---------	--

Description

Return the parents of an HPO term

Usage

```
parents(term)
```

Arguments

term	Character vector, a valid HPO ID
------	----------------------------------

Value

a character vector where each element is a parent term

Examples

```
parents("HP:000001")
## Not run:
data %>% mutate(parents = parents(term))

## End(Not run)
```

parse_hpo	<i>Parse an HPO OBO file</i>
-----------	------------------------------

Description

Parse an HPO OBO file

Usage

```
parse_hpo(path)
```

Arguments

path	Character vector; filepath to your hp.obo file.
------	---

Value

Tibble of HPO terms, term descriptions, and relations

Examples

```
## Not run:
hpo <- parse_hpo("hp.obo")

## End(Not run)
```