

Package: finto (via r-universe)

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Title Access the 'Finto' API

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Description Access and retrieve vocabulary data 'Finto' API
<<https://api.finto.fi/>>, which is a centralized service for
interoperable thesauri, ontology and classification schemes for
different subject areas.

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Encoding UTF-8

LazyData true

Imports tibble, httr, dplyr, jsonlite, tidyr, stringr, rlang, purrr

Suggests testthat (>= 3.0.0), rmarkdown, knitr

URL <https://fennicahub.github.io/finto/>

BugReports <https://github.com/fennicahub/finto/issues>

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.3

Config/testthat/edition 3

VignetteBuilder knitr

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Config/pak/sysreqs libicu-dev libssl-dev

Repository <https://fennicahub.r-universe.dev>

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 fennica_subset

Sample Subset of Fennica Bibliographic Records

Description

A 300-record sample from the Fennica dataset (Melinda) for demonstration and testing.

Format

A data frame with 300 rows and 28 variables:

melinda_id Melinda record ID (001)
leader MARC leader field
008 Fixed-length data elements (008)
author_name Personal name of the main author (100a)
author_date Birth/death dates or period of activity (100d)
author_ID Combined authority ID from fields 100\$0 and 264a
language Language code(s) (041a)
language_original Original language (041h)
title_uniform Uniform title (240a)
title Main title (245a)
title_remainder Remainder of title (245b)
publication_place Place of publication (260a)
publisher Name of publisher (260b)
physical_dimensions Dimensions (300c)
physical_extent Extent (300a)
publication_frequency Publication frequency (310a)
publication_interval Dates of publication (362a)
signum Call number or shelf mark
location_852 Library location (852a)
UDK Universal Decimal Classification (080a)
UDK_aux Auxiliary UDC notation (080x)
245n Part/section of a work (245n)
genre_655 Genre/form terms (655a)
650a Topical subject headings (650a)
general_note General note (500a)
700a Added entry – personal name (700a)
700_0 Authority ID for added personal name (700\$0)
a.15 Unidentified field (parsing artifact)

Source

<https://www.kansalliskirjasto.fi/fi/palvelut/fennica-suomen-kansallisbibliografia>

fetch_kanto_info	<i>Fetch RDF data for a specific concept from the Finto Skosmos API using a single asteriID</i>
------------------	---

Description

This function retrieves RDF data for a given concept from the Finto API. The user only needs to provide the asteriID, which is appended to a fixed base URI.

Usage

```
fetch_kanto_info(asteriID, format = "application/json")
```

Arguments

asteriID	The unique identifier to append to the base URI.
format	The MIME type of the serialization format (e.g., "application/rdf+xml" or "text/turtle"). Default is "application/json".

Value

A tibble containing the RDF data for the concept.

Examples

```
concept_data <- fetch_kanto_info(asteriID = "000094320")
print(concept_data)
```

fetch_profession_hierarchy	<i>Fetch hierarchy of professions from Finto API</i>
----------------------------	--

Description

This function retrieves broader/narrower relationships and constructs a hierarchical structure.

Usage

```
fetch_profession_hierarchy(concept_uri, vocid = "mts", depth = 3)
```

Arguments

concept_uri	The URI of the starting profession (root).
vocid	The vocabulary ID (default: "mts").
depth	The depth of hierarchy to fetch (default: 3).

Value

A data.frame representing the hierarchy.

Examples

```
hierarchy_df <- fetch_profession_hierarchy("http://urn.fi/URN:NBN:fi:au:mts:m3357")
print(hierarchy_df)
```

fetch_profession_info *Fetch all metadata from Finto Skosmos API*

Description

This function queries the Finto API for a given concept URI and extracts all relevant metadata fields.

Usage

```
fetch_profession_info(concept_uri)
```

Arguments

concept_uri The URI of the concept to fetch.

Value

A tibble containing the full metadata.

Examples

```
metadata <- fetch_profession_info("http://urn.fi/URN:NBN:fi:au:mts:m3357")
print(metadata)
```

finto_api_request *Helper function to send requests to the Finto Skosmos API*

Description

Helper function to send requests to the Finto Skosmos API

Usage

```
finto_api_request(endpoint, params = list())
```

Arguments

endpoint API endpoint to request.
params List of query parameters.

Value

Parsed JSON response from the API.

Examples

```
## Not run:  
finto_api_request("vocabularies")  
  
## End(Not run)
```

get_alphabetical_index_letters

Get the initial letters of the alphabetical index for labels in a specific vocabulary from the Finto Skosmos API

Description

Get the initial letters of the alphabetical index for labels in a specific vocabulary from the Finto Skosmos API

Usage

```
get_alphabetical_index_letters(vocid, lang = NULL)
```

Arguments

vocid	The vocabulary ID, e.g., "yso".
lang	The language of labels, e.g., "en" or "fi". Optional.

Value

A tibble containing the initial letters of the alphabetical index.

Examples

```
result <- get_alphabetical_index_letters(vocid = "yso", lang = "fi")  
print(result)
```

get_broader_concepts *Get broader concepts for a specific concept from the Finto Skosmos API*

Description

Get broader concepts for a specific concept from the Finto Skosmos API

Usage

```
get_broader_concepts(vocid, uri, lang = NULL)
```

Arguments

vocid	The vocabulary ID, e.g., "yso".
uri	The URI of the concept whose broader concepts to retrieve.
lang	The language code for the labels, e.g., "fi" or "en". Optional.

Value

A tibble containing the broader concepts (prefLabel and uri) for the specified concept.

Examples

```
concepts <- get_broader_concepts(vocid = "yso",  
uri = "http://www.yso.fi/onto/yso/p22922", lang = "fi")  
print(concepts)
```

get_broader_transitive_concepts
Get broader transitive concepts for a specific concept from the Finto Skosmos API

Description

Get broader transitive concepts for a specific concept from the Finto Skosmos API

Usage

```
get_broader_transitive_concepts(vocid, uri, lang = NULL)
```

Arguments

vocid	The vocabulary ID, e.g., "yso".
uri	The URI of the concept whose broader transitive concepts to retrieve.
lang	The language code for the labels, e.g., "fi" or "en". Optional.

Value

A tibble containing the broader transitive concepts (prefLabel and uri) for the specified concept.

Examples

```
concepts <- get_broader_transitive_concepts(vocid = "yso",
uri = "http://www.yso.fi/onto/yso/p22922", lang = "fi")
print(concepts)
```

get_children_concepts *Get children concepts for a specific concept from the Finto Skosmos API*

Description

Get children concepts for a specific concept from the Finto Skosmos API

Usage

```
get_children_concepts(vocid, uri, lang = NULL)
```

Arguments

vocid	The vocabulary ID, e.g., "yso".
uri	The URI of the concept whose children concepts to retrieve.
lang	The language code for the labels, e.g., "fi" or "en". Optional.

Value

A tibble containing the children concepts (prefLabel, uri, hasChildren) for the specified concept.

Examples

```
children <- get_children_concepts(vocid = "yso",
uri = "http://www.yso.fi/onto/yso/p690", lang = "fi")
print(children)
```

get_concept_data	<i>Get RDF data for a specific concept from the Finto Skosmos API</i>
------------------	---

Description

Get RDF data for a specific concept from the Finto Skosmos API

Usage

```
get_concept_data(uri, format = "application/json")
```

Arguments

uri	The URI of the concept to retrieve data for.
format	The MIME type of the serialization format (e.g., "application/rdf+xml" or "text/turtle"). Default is "application/json".

Value

A tibble containing the RDF data for the concept.

Examples

```
concept_data <- get_concept_data(uri = "http://www.yso.fi/onto/afo/")
print(concept_data)
```

get_concept_groups	<i>Get concept groups for a given vocabulary from the Finto Skosmos API</i>
--------------------	---

Description

Get concept groups for a given vocabulary from the Finto Skosmos API

Usage

```
get_concept_groups(vocid, lang = NULL)
```

Arguments

vocid	The vocabulary ID, e.g., "yso".
lang	The language of labels, e.g., "en" or "fi". Optional.

Value

A tibble containing concept groups, with fields for URI, prefLabel, and hasMembers.

Examples

```
result <- get_concept_groups(vocid = "yso", lang = "fi")
print(result)
```

```
get_concept_labels      Get labels for a specific concept from the Finto Skosmos API and re-
                        turn as a tibble
```

Description

Get labels for a specific concept from the Finto Skosmos API and return as a tibble

Usage

```
get_concept_labels(uri, lang = NULL)
```

Arguments

`uri` The URI of the concept to retrieve labels for.
`lang` The language of labels to retrieve, e.g., "en" or "fi". Optional.

Value

A tibble containing the URI, preferred label (`prefLabel`), alternative labels (`altLabel`), and hidden labels (`hiddenLabel`) for the concept.

Examples

```
lables <- get_concept_labels(uri = "http://www.yso.fi/onto/koko/p91024",
lang = "fi")
print(lables)
```

```
get_concept_labels_vocid
                        Get labels for a specific concept from the Finto Skosmos API
```

Description

Get labels for a specific concept from the Finto Skosmos API

Usage

```
get_concept_labels_vocid(vocid, uri, lang = NULL)
```

Arguments

vocid	The vocabulary ID, e.g., "yso".
uri	The URI of the concept whose labels to retrieve.
lang	The language code for the labels, e.g., "fi" or "en". Optional.

Value

A tibble containing the labels (prefLabel, altLabel, hiddenLabel) for the specified concept.

Examples

```
lables <- get_concept_labels_vocid(vocid = "yso",
uri = "http://www.yso.fi/onto/yso/p22922", lang = "fi")
print(lables)
```

```
get_concepts_by_letter
```

Get concepts starting with a specific letter in the alphabetical index for a given vocabulary

Description

Get concepts starting with a specific letter in the alphabetical index for a given vocabulary

Usage

```
get_concepts_by_letter(vocid, letter, lang = NULL)
```

Arguments

vocid	The vocabulary ID, e.g., "yso".
letter	The initial letter, or "0-9" for numeric or "!*" for special character labels.
lang	The language of labels, e.g., "en" or "fi". Optional.

Value

A tibble containing concepts with labels starting with the given letter.

Examples

```
result <- get_concepts_by_letter(vocid = "yso", letter = "A", lang = "fi")
print(result)
```

get_group_members	<i>Get members of a specific concept group from the Finto Skosmos API</i>
-------------------	---

Description

Get members of a specific concept group from the Finto Skosmos API

Usage

```
get_group_members(vocid, uri, lang = NULL)
```

Arguments

vocid	The vocabulary ID, e.g., "yso".
uri	The URI of the concept group whose members to retrieve.
lang	The language code for the labels, e.g., "fi" or "en". Optional.

Value

A tibble containing members associated with the specified concept group.

Examples

```
group_members_data <- get_group_members(vocid = "yso",
uri = "http://www.yso.fi/onto/yso/p26580", lang = "fi")
print(head(group_members_data))
```

get_hierarchy	<i>Get the hierarchical context for a specific concept from the Finto Skosmos API</i>
---------------	---

Description

Get the hierarchical context for a specific concept from the Finto Skosmos API

Usage

```
get_hierarchy(vocid, uri, lang = NULL)
```

Arguments

vocid	The vocabulary ID, e.g., "yso".
uri	The URI of the concept whose hierarchical context to retrieve.
lang	The language code for the labels, e.g., "fi" or "en". Optional.

Value

A tibble containing the hierarchical context (broader, narrower, prefLabel, etc.) for the specified concept.

Examples

```
hierarchy <- get_hierarchy(vocid = "yso", uri = "http://www.yso.fi/onto/yso/p24489", lang = "fi")
print(hierarchy)
```

get_kanto	<i>Process and Fetch KANTO Information using a list of author_IDs as column</i>
-----------	---

Description

This function extracts Asteri IDs from the 'author_ID' column as list, fetches RDF data from the Finto Skosmos API using those IDs, and returns a cleaned tibble with the retrieved metadata and profession labels.

Usage

```
get_kanto(data)
```

Arguments

data A dataframe containing an 'author_ID' column with values like "(FIN11)000069536".

Value

A tibble with author_ID, RDF data, and extracted profession labels.

get_label_statistics	<i>Get label statistics by language in a specific vocabulary from the Finto Skosmos API</i>
----------------------	---

Description

Get label statistics by language in a specific vocabulary from the Finto Skosmos API

Usage

```
get_label_statistics(vocid)
```

Arguments

vocid The vocabulary ID, e.g., "yso".

Value

A tibble containing the label statistics for each language, with columns for language, literal, property, and label count.

Examples

```
result <- get_label_statistics(vocid = "yso")
print(result)
```

get_mappings

Get mappings for a specific concept from the Finto Skosmos API

Description

Get mappings for a specific concept from the Finto Skosmos API

Usage

```
get_mappings(vocid, uri, lang = NULL)
```

Arguments

vocid	The vocabulary ID, e.g., "yso".
uri	The URI of the concept whose mappings to retrieve.
lang	The language code for the labels, e.g., "fi" or "en". Optional.

Value

A tibble containing mappings associated with the specified concept.

Examples

```
mappings_data <- get_mappings(vocid = "yso", uri = "http://www.yso.fi/onto/yso/p22922", lang = "fi")
print(mappings_data)
```

get_modified_concepts *Get modified concepts in a specific vocabulary from the Finto Skosmos API*

Description

Get modified concepts in a specific vocabulary from the Finto Skosmos API

Usage

```
get_modified_concepts(vocid, lang = NULL, offset = NULL, limit = NULL)
```

Arguments

vocid	The vocabulary ID, e.g., "yso".
lang	The language of labels, e.g., "en" or "fi". Optional.
offset	Offset for the starting index of the results. Optional.
limit	Maximum number of concepts to return. Optional.

Value

A tibble containing the modified concepts with URI, label, and modification date.

Examples

```
result <- get_modified_concepts(vocid = "yso", lang = "fi", limit = 10)
print(result)
```

get_narrower_concepts *Get narrower concepts for a specific concept from the Finto Skosmos API*

Description

Get narrower concepts for a specific concept from the Finto Skosmos API

Usage

```
get_narrower_concepts(vocid, uri, lang = NULL)
```

Arguments

vocid	The vocabulary ID, e.g., "yso".
uri	The URI of the concept whose narrower concepts to retrieve.
lang	The language code for the labels, e.g., "fi" or "en". Optional.

Value

A tibble containing the narrower concepts (prefLabel and uri) for the specified concept.

Examples

```
narrower_concepts <- get_narrower_concepts(vocid = "yso",  
uri = "http://www.yso.fi/onto/yso/p690", lang = "fi")  
print(narrower_concepts)
```

get_narrower_transitive

Get narrower transitive concepts for a specific concept from the Finto Skosmos API

Description

Get narrower transitive concepts for a specific concept from the Finto Skosmos API

Usage

```
get_narrower_transitive(vocid, uri, lang = NULL)
```

Arguments

vocid	The vocabulary ID, e.g., "yso".
uri	The URI of the concept whose narrower transitive hierarchy to retrieve.
lang	The language code for the labels, e.g., "fi" or "en". Optional.

Value

A tibble containing the narrower transitive concepts (prefLabel and uri) for the specified concept.

Examples

```
narrow <- get_narrower_transitive(vocid = "yso",  
uri = "http://www.yso.fi/onto/yso/p690", lang = "fi")  
print(narrow)
```

get_new_concepts	<i>Get new concepts in a specific vocabulary from the Finto Skosmos API</i>
------------------	---

Description

Get new concepts in a specific vocabulary from the Finto Skosmos API

Usage

```
get_new_concepts(vocid, lang = NULL, offset = NULL, limit = NULL)
```

Arguments

vocid	The vocabulary ID, e.g., "yso".
lang	The language of labels, e.g., "en" or "fi". Optional.
offset	Offset for the starting index of the results. Optional.
limit	Maximum number of concepts to return. Optional.

Value

A tibble containing the new concepts with URI, label, and creation date.

Examples

```
result <- get_new_concepts(vocid = "yso", lang = "fi", limit = 10)
print(result)
```

get_related_concepts	<i>Get related concepts for a specific concept from the Finto Skosmos API</i>
----------------------	---

Description

Get related concepts for a specific concept from the Finto Skosmos API

Usage

```
get_related_concepts(vocid, uri, lang = NULL)
```

Arguments

vocid	The vocabulary ID, e.g., "yso".
uri	The URI of the concept whose related concepts to retrieve.
lang	The language code for the labels, e.g., "fi" or "en". Optional.

Value

A tibble containing the related concepts (prefLabel and uri) for the specified concept.

Examples

```
related <- get_related_concepts(vocid = "yso",  
uri = "http://www.yso.fi/onto/yso/p24489", lang = "fi")  
print(related)
```

get_top_concepts	<i>Get top concepts of a specific vocabulary from the Finto Skosmos API</i>
------------------	---

Description

Get top concepts of a specific vocabulary from the Finto Skosmos API

Usage

```
get_top_concepts(vocid, lang = NULL, scheme = NULL)
```

Arguments

vocid	The vocabulary ID, e.g., "yso".
lang	The language of labels to retrieve, e.g., "en" or "fi". Optional.
scheme	The concept scheme to retrieve top concepts from. Optional.

Value

A tibble containing the URI, label, topConceptOf, notation, and hasChildren for each top concept.

Examples

```
result <- get_top_concepts(vocid = "yso", lang = "fi")  
print(result)
```

get_types	<i>Get information about the types (classes) of objects in all vocabularies from the Finto Skosmos API</i>
-----------	--

Description

Get information about the types (classes) of objects in all vocabularies from the Finto Skosmos API

Usage

```
get_types(lang = NULL)
```

Arguments

lang The language of labels to retrieve, e.g., "en" or "fi". Optional.

Value

A tibble containing the URI, label, and superclass for each type.

Examples

```
result <- get_types(lang = "fi")
print(result)
```

get_vocabularies	<i>Get available vocabularies from the Finto Skosmos API</i>
------------------	--

Description

Get available vocabularies from the Finto Skosmos API

Usage

```
get_vocabularies(lang = "fi")
```

Arguments

lang Language of labels, e.g., "en" or "fi" (default is "fi")

Value

A data frame with the vocabulary details: uri, id, and title

Examples

```
result <- get_vocabularies(lang = "fi")
print(result)
```

get_vocabulary_data *Get and structure RDF data of the whole vocabulary or a specific concept from the Finto Skosmos API*

Description

Get and structure RDF data of the whole vocabulary or a specific concept from the Finto Skosmos API

Usage

```
get_vocabulary_data(  
  vocid,  
  format = "application/rdf+xml",  
  uri = NULL,  
  lang = NULL  
)
```

Arguments

vocid	The vocabulary ID, e.g., "yso".
format	The MIME type of the serialization format, e.g., "application/rdf+xml". Default is "application/rdf+xml".
uri	The URI of a specific concept to retrieve data for. If NULL, retrieves data for the entire vocabulary. Optional.
lang	The RDF language code for the requested resource, e.g., "fi" or "en". Optional.

Value

A character string containing the raw RDF response.

Examples

```
rdf_xml_data <- get_vocabulary_data(  
  vocid = "yso",  
  uri = "http://www.w3.org/2004/02/skos/core#Concept",  
  format = "application/rdf+xml"  
)  
cat(rdf_xml_data)  
  
turtle_data <- get_vocabulary_data(  
  vocid = "yso",  
  format = "text/turtle"  
)  
cat(turtle_data) # Print the Turtle data
```

get_vocabulary_info *Get general information about a specific vocabulary from the Finto Skosmos API*

Description

Get general information about a specific vocabulary from the Finto Skosmos API

Usage

```
get_vocabulary_info(vocid, lang = NULL)
```

Arguments

vocid The vocabulary ID, e.g., "yso".
lang The language of labels to retrieve, e.g., "en" or "fi". Optional.

Value

A list containing the vocabulary details such as URI, title, languages, and concept schemes.

Examples

```
result <- get_vocabulary_info(vocid = "yso", lang = "fi")  
print(result)
```

get_vocabulary_statistics
Get vocabulary statistics as a single tibble containing concepts, subtypes, and concept groups

Description

Get vocabulary statistics as a single tibble containing concepts, subtypes, and concept groups

Usage

```
get_vocabulary_statistics(vocid, lang = NULL)
```

Arguments

vocid The vocabulary ID, e.g., "yso".
lang The language of labels, e.g., "en" or "fi". Optional.

Value

A tibble containing counts of concepts, subtypes, and concept groups, with each entry in one row.

Examples

```
result <- get_vocabulary_statistics(vocid = "yso", lang = "fi")
print(result)
```

get_vocabulary_types *Get type information for a Finto vocabulary*

Description

This function retrieves information about the types (classes) of objects in a given Finto/Skosmos vocabulary, using the /types endpoint.

Usage

```
get_vocabulary_types(vocid, lang = NULL)
```

Arguments

vocid	A Skosmos vocabulary identifier, e.g. "yso".
lang	Optional language code for labels, e.g. "fi" or "en". If NULL (default), the API's default language is used.

Value

A tibble with one row per type, typically containing columns `uri`, `label`, and (optionally) `superclass`.

Examples

```
types <- get_vocabulary_types("yso", lang = "fi")
print(types)
```

 lookup_concept_by_label

Look up concepts by label in a specific vocabulary from the Finto Skosmos API

Description

Look up concepts by label in a specific vocabulary from the Finto Skosmos API

Usage

```
lookup_concept_by_label(vocid, label, lang = NULL)
```

Arguments

vocid	The vocabulary ID, e.g., "yso".
label	The label to look up, e.g., "cat".
lang	The search language, e.g., "en" or "fi". Optional.

Value

A tibble containing the best matching concept(s) with fields like uri, type, prefLabel, and altLabel.

Examples

```
result <- lookup_concept_by_label(vocid = "yso", label = "cat", lang = "en")
print(result)
```

 search_concepts

Search for concepts in the Finto Skosmos API by query term with additional parameters

Description

Search for concepts in the Finto Skosmos API by query term with additional parameters

Usage

```
search_concepts(
  query,
  lang = NULL,
  labellang = NULL,
  vocab = NULL,
  type = NULL,
  parent = NULL,
```

```

    group = NULL,
    maxhits = NULL,
    offset = NULL,
    fields = NULL,
    unique = NULL
  )

```

Arguments

query	The term to search for, e.g., "sibelius".
lang	Language of labels to match, e.g., "en" or "fi". Optional.
labellang	Language of labels to return, e.g., "en" or "fi". Optional.
vocab	Vocabulary or vocabularies to limit search to, e.g., "yso". Optional.
type	Limit search to concepts of the given type(s), e.g., "skos:Concept". Optional.
parent	Limit search to concepts which have the given concept as a parent. Optional.
group	Limit search to concepts in a specific group. Optional.
maxhits	Maximum number of results to return (default is 191 as per the screenshot). Optional.
offset	Offset to start in the result set, useful for paging. Optional.
fields	Extra fields to include in the results (space-separated list). Optional.
unique	Boolean flag to return each concept only once. Optional.

Value

A data frame containing search results with columns: uri, type, prefLabel, altLabel, hiddenLabel, lang, and vocab.

Examples

```

concepts <- search_concepts(query = "sibelius", lang = "fi")
print(concepts)

```

```

search_vocabulary_concepts

```

Search for concepts and collections in a specific vocabulary from the Finto Skosmos API

Description

Search for concepts and collections in a specific vocabulary from the Finto Skosmos API

Usage

```
search_vocabulary_concepts(
  vocid,
  query,
  lang = NULL,
  type = NULL,
  maxhits = NULL,
  offset = NULL
)
```

Arguments

vocid	The vocabulary ID, e.g., "yso".
query	The search term, e.g., "cat*".
lang	The language of labels to match, e.g., "en" or "fi". Optional.
type	Limit search to concepts of a given type, e.g., "skos:Concept". Optional.
maxhits	Maximum number of results to return. Optional.
offset	Offset where to start in the result set, useful for paging. Optional.

Value

A tibble containing the search results with fields such as uri, type, prefLabel, and altLabel.

Examples

```
search_results <- search_vocabulary_concepts(vocid = "yso", query = "cat", lang = "en")
print(search_results)
```

yso_place

Fetch place information from YSO places (yso-paikat)

Description

Fetch place information from YSO places (yso-paikat)

Usage

```
yso_place(x)
```

Arguments

x	Place id, page URL, or YSO URI
---	--------------------------------

Value

A one-row tibble with key fields for the place

Examples

```
place <- yso_place("http://www.yso.fi/onto/yso/p94257")  
print(place)
```

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