

# Package ‘tndata’

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**Title** Fetch Datasets from the Official Tunisian Data Catalog

**Version** 0.1.0

**Description** Simplifies access to Tunisian government open data from [<https://data.gov.tn/fr/>](https://data.gov.tn/fr/). Queries datasets by theme, author, or keywords, retrieves metadata, and gets structured results ready for analysis; all through the official 'CKAN' API.

**License** Apache License (>= 2)

**Encoding** UTF-8

**Imports** dplyr, fs, glue, httr, httr2, jsonlite, logger, lubridate, purrr, stringr

**Depends** R (>= 4.1.0)

**RoxygenNote** 7.3.2

**URL** <https://github.com/aymennasri/tndata>, <http://aymennasri.me/tndata/>

**BugReports** <https://github.com/aymennasri/tndata/issues>

**NeedsCompilation** no

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**Repository** CRAN

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download_dataset	<i>Download Dataset</i>
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**Description**

Downloads a dataset from the Tunisian data catalog API (data.gov.tn).

**Usage**

```
download_dataset(title, download_dir, format = NULL)
```

**Arguments**

title	Character. Display name of the dataset to download.
download_dir	Character. Directory to save the downloaded dataset at.
format	Character. Format of the dataset to download.

**Value**

The demanded dataset in the demanded path.

**Examples**

```
try({  
  download_dataset(  
    "Ressources en eau- Gouvernorat de Kasserine",  
    format = "xls",  
    download_dir = tempdir()  
  )  
})
```

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get_authors	<i>List All Authors in the Dataset Catalog</i>
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**Description**

Retrieves a list of all authors who have contributed datasets to the catalog by fetching datasets and extracting unique author information.

**Usage**

```
get_authors(max_datasets = 1000)
```

**Arguments**

**max\_datasets** Numeric. Maximum number of datasets to retrieve for author extraction, defaults to 1000.

**Value**

A tibble (data frame) with the following columns:

**name** Character. Name of the author.

**count** Numeric. Number of datasets contributed by this author.

**Examples**

```
try({
  authors <- get_authors(max_datasets = 100)
  head(authors)
})
```

---

get\_datasets

*List Available Datasets*

---

**Description**

Fetches datasets by keyword and/or author

**Usage**

```
get_datasets(
  keyword = NULL,
  author = NULL,
  organization = NULL,
  max_results = 100
)
```

**Arguments**

**keyword** Character. Keyword to search for in dataset titles.

**author** Character. Author name to filter datasets by.

**organization** Character. Organization name to filter datasets by.

**max\_results** Numeric. Maximum number of datasets to return, defaults to 100.

**Value**

A tibble (data frame) with the following columns:

**title** Character. Title of the dataset.

**id** Character. ID of the dataset.

**resources** List. A list of tibbles with the following columns:

**name** Character. Name of the dataset.

**format** Character. Format of the dataset.

**url** Character. URL of the dataset.

**created** Date. Date the dataset was created.

**Examples**

```
try({
  datasets <- get_datasets("agriculture")
  head(datasets)
})
```

---

get\_keywords

*List Dataset Keywords/Tags*

---

**Description**

Retrieves a list of unique keywords/tags from the Tunisian data catalog API.

**Usage**

```
get_keywords(limit = 10, query = NULL)
```

**Arguments**

**limit** Integer. Maximum number of tags to return (default: 10).

**query** Character. Optional search string to filter tags.

**Value**

A data frame of keywords/tags with counts.

**Examples**

```
try({
  get_keywords(limit = 10)
})
```

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get\_organizations      *List Organizations*

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### Description

Retrieves organizations data from the Tunisian data catalog API (data.gov.tn) using faceted search. This function returns organizations that have published datasets.

### Usage

```
get_organizations(min_count = 1)
```

### Arguments

**min\_count**      Integer. Minimum number of datasets an organization must have to be included in results. Default is 1, meaning only organizations with at least one dataset are returned.

### Value

A tibble (data frame) with the following columns:

**name** Character. Machine-readable name/identifier of the organization.

**display\_name** Character. Human-readable name of the organization.

**dataset\_count** Integer. Number of datasets published by the organization.

### Examples

```
try({  
  # Get all organizations with at least 5 datasets  
  orgs <- get_organizations(min_count = 5)  
  head(orgs)  
})
```

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get\_themes      *Summarize Dataset Themes*

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### Description

Fetches and summarizes themes (groups) alongside the number of datasets in each theme from the Tunisian data catalog API (data.gov.tn).

### Usage

```
get_themes()
```

**Value**

A tibble (data frame) with two columns:

**theme** Character. Name of the theme/group.

**dataset\_count** Numeric. Number of datasets in the theme.

**Examples**

```
try({  
  themes_summary <- get_themes()  
  head(themes_summary)  
})
```

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