

# Package ‘tmap.sources’

August 24, 2026

**Title** Data Sources for 'tmap'

**Version** 0.1-1

**Description** Provides support for a variety of spatial data sources in 'tmap', including remote, tiled, and streaming formats. Enables the use of external vector and raster data without requiring full data import, facilitating efficient visualization workflows.

**License** GPL-3

**Encoding** UTF-8

**Depends** R (>= 4.1)

**Imports** tmap (>= 4.3), sf, httr2, jsonlite, freestiler, data.table, servr, cli

**Suggests** tmap.mapgl (>= 0.2-1)

**Config/Needs/website** bookdown, rmarkdown, r-tmap/tmap, walkerke/mapgl, r-tmap/tmap.mapgl

**URL** <https://github.com/r-tmap/tmap.sources>

**BugReports** <https://github.com/r-tmap/tmap.sources/issues>

**Config/roxygen2/version** 8.0.0

**NeedsCompilation** no

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**Repository** CRAN

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## Contents

|                              |          |
|------------------------------|----------|
| tmap_src_accessors . . . . . | 2        |
| tmap_src_meta . . . . .      | 3        |
| tmap_src_overture . . . . .  | 3        |
| <b>Index</b>                 | <b>4</b> |

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|--------------------|---------------------------------------------------|
| tmap_src_accessors | <i>Derived accessors for tmap source metadata</i> |
|--------------------|---------------------------------------------------|

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## Description

Convenience functions to extract specific parts of the metadata object returned by [tmap\\_src\\_meta](#).

## Usage

```
tmap_src_layers(meta)

tmap_src_vars(meta, layer = NULL)

tmap_src_cats(meta, layer = NULL, var)
```

## Arguments

|       |                                                                                                  |
|-------|--------------------------------------------------------------------------------------------------|
| meta  | List. Output of <a href="#">tmap_src_meta</a> .                                                  |
| layer | Character. Layer name. May be omitted when the source has exactly one layer; required otherwise. |
| var   | Character. Variable name within the layer.                                                       |

## Value

**tmap\_src\_layers** Character vector of layer names.

**tmap\_src\_vars** Data frame with columns `variable`, `class`, `categories` (list-column), and `palette` (list-column) for all variables in the layer.

**tmap\_src\_cats** A list with elements `categories` (character vector of known category values) and `palette` (named character vector of hex colours), both `NULL` when no catalogue entry exists for `layer.var`.

Each accessor returns `NULL` if `meta` is `NULL` (e.g. because the required network resource was unavailable upstream), rather than raising an error.

## Examples

```
urls <- tmap_src_overture()
meta <- tmap_src_meta(urls$buildings)
if (!is.null(meta)) {
  tmap_src_layers(meta)
  tmap_src_vars(meta, layer = "building")
  tmap_src_cats(meta, layer = "building", var = "subtype")
}
```

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|               |                                 |
|---------------|---------------------------------|
| tmap_src_meta | <i>Get tmap source metadata</i> |
|---------------|---------------------------------|

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**Description**

Returns all known metadata for a PMTiles source. For Overture Maps URLs, the layer\_vars data frames are automatically annotated with categories and palette list-columns for variables that have a known closed value set.

**Usage**

```
tmap_src_meta(x)
```

**Arguments**

|   |                                             |
|---|---------------------------------------------|
| x | URL or local file path to a PMTiles source. |
|---|---------------------------------------------|

**Value**

A list with elements: input, type, tile\_type, url, layers, layer\_vars, bbox, zoom. Each element of layer\_vars is a data frame with columns variable, class, categories (list), palette (list). Returns NULL if the required network resource is unavailable, rather than raising an error.

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|                   |                                       |
|-------------------|---------------------------------------|
| tmap_src_overture | <i>Get Overture Maps PMTiles URLs</i> |
|-------------------|---------------------------------------|

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**Description**

Returns a named list of PMTiles URLs for all Overture themes. When release = "latest" (default), the version is resolved via the Overture STAC catalog at runtime.

**Usage**

```
tmap_src_overture(release = "latest")
```

**Arguments**

|         |                                                                                           |
|---------|-------------------------------------------------------------------------------------------|
| release | Character. "latest" or an explicit release string such as "2026-03-18" or "2026-03-18.0". |
|---------|-------------------------------------------------------------------------------------------|

**Value**

Named list of URLs: addresses, base, buildings, divisions, places, transportation. Returns NULL if the required network resource is unavailable, rather than raising an error.

# Index

tmap\_src\_accessors, [2](#)  
tmap\_src\_cats (tmap\_src\_accessors), [2](#)  
tmap\_src\_layers (tmap\_src\_accessors), [2](#)  
tmap\_src\_meta, [2](#), [3](#)  
tmap\_src\_overture, [3](#)  
tmap\_src\_vars (tmap\_src\_accessors), [2](#)