

# Package ‘overturemapsr’

February 14, 2025

**Title** Download Overture Maps Data in R

**Version** 0.1.0

**Description** Overture Maps offers free and open geospatial map data sourced from various providers and standardized to a common schema. This tool allows you to download Overture Maps data for a specific region of interest and convert it to several different file formats. For more information, visit <<https://overturemaps.org/download/>>.

**License** MIT + file LICENSE

**URL** <https://github.com/denironyx/overturemapsr>

**BugReports** <https://github.com/denironyx/overturemapsr/issues>

**Encoding** UTF-8

**RoxygenNote** 7.3.1

**Depends** R (>= 3.5.0)

**Imports** arrow, dplyr, sf

**Suggests** testthat (>= 3.0.0)

**Config/testthat/edition** 3

**Config/Needs/website** rmarkdown

**NeedsCompilation** no

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**Repository** CRAN

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dataset_path	<i>dataset_path</i>
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**Description**

This function returns the S3 path for the specified Overture dataset schema type.

**Usage**

```
dataset_path(schema_type, release_date = "2025-01-22")
```

**Arguments**

schema_type	Character. Required. The type of feature to select. Examples include 'building', 'place', etc. To learn more, run <code>get_all_overture_schema_types()</code> .
release_date	Character. Optional. The dataset release date (format: 'YYYY-MM-DD'). Defaults to the latest available release.

**Value**

Character. The S3 path to the bucket where the data is stored.

**Examples**

```
# Example usage
path <- dataset_path('place', release_date = '2025-01-22')
print(path)
```

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get_all_overture_schema_types	<i>get_all_overture_types</i>
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**Description**

This function returns all of the overturemaps theme types.

**Usage**

```
get_all_overture_schema_types()
```

**Value**

Character vector. All overturemaps theme types.

### Note

The theme types are important for fetching data from the S3 bucket, as they indicate if you are fetching places, buildings, admin, etc.

### Examples

```
# Example usage
types <- get_all_overture_schema_types()
print(types)
```

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`get_dataset_metadata`    *get\_dataset\_metadata*

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### Description

This function retrieves metadata information for a given dataset type.

### Usage

```
get_dataset_metadata(schema_type, release_date = "2025-01-22")
```

### Arguments

`schema_type`    Character. Required. The type of feature to select.  
`release_date`    Character. Optional. The dataset release date (format: 'YYYY-MM-DD').

### Value

A list containing metadata such as column names and dataset size.

### Examples

```
metadata <- get_dataset_metadata('place', release_date = '2025-01-22')
print(metadata)
```

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record\_batch\_reader    *record\_batch\_reader*

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### Description

This function retrieves a filtered dataset from the specified Overture dataset type, optionally within a bounding box, and converts it to an `sf` object.

### Usage

```
record_batch_reader(schema_type, bbox = NULL, release_date = "2025-01-22")
```

### Arguments

<code>schema_type</code>	Character. Required. The type of feature to select. Examples include 'building', 'place', etc. To learn more, run <code>get_all_overture_schema_types()</code> .
<code>bbox</code>	Numeric vector. Optional. A bounding box specified as <code>c(xmin, ymin, xmax, ymax)</code> . It is recommended to use a bounding box to limit the dataset size and processing time. Without a bounding box, processing the entire dataset (e.g., buildings over 2 billion) can be time-consuming.
<code>release_date</code>	Character. Optional. The dataset release date (format: 'YYYY-MM-DD'). Defaults to the latest available release.

### Value

An `sf` object containing the filtered dataset based on the bounding box.

### Examples

```
# Example usage with a bounding box takes > 20 secs
sf_bbox <- c(-122.5, 37.7, -122.3, 37.8)
result <- record_batch_reader(schema_type = 'place', bbox = sf_bbox)
print(result)
```

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