

# Package ‘plenaar’

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**Type** Package

**Title** Data Extraction to R from Plenar.io's API

**Version** 0.3.0

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**Depends** R (>= 3.1.1)

**Description** Provides easy interaction with  
Plenar.io's open API.  
Users can easily pull event, shape and sensor network data into R.

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**Imports** jsonlite,  
httr,  
data.table

**Suggests** testthat,  
geojsonlint

**RoxygenNote** 6.0.1

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available\_data

*Query API for available Event, Shape or Sensor Network Data*


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### Description

Query API for available Event, Shape or Sensor Network Data

### Usage

```
available_data(type, location = NULL, date_begin = NULL, date_end = NULL)
```

### Arguments

type	A character string, one of 'event', 'shape' or 'sensor'
location	('type = "event"' and 'type = "shape"' only) filter data sets with a valid geojson polygon
date_begin	('type = "event"' only) filter data sets for those that begin on or after this date specified in 'YYYY-MM-DD' format
date_end	('type = "event"' only) filter data sets for those that end on or before this date specified in 'YYYY-MM-DD' format

### Value

A data.table object

### Examples

```
# can use filters
loc = '{"type": "Polygon",
      "coordinates": [
        [[-87.58695602416992, 41.79224063145134],
         [-87.58695602416992, 41.7996633276003],
         [-87.5745964050293, 41.7996633276003],
         [-87.5745964050293, 41.79224063145134],
         [-87.58695602416992, 41.79224063145134]]]}'
event <- available_data(type = "event", date_begin = "2015-10-20", location = loc)

shapes <- available_data(type = "shape")

sensor <- available_data(type = "sensor")
```

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event\_data

*Dump all records for an event data set*


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### Description

Dump all records for an event data set

**Usage**

```
event_data(name = NULL, location = NULL, date_begin = NULL,
            date_end = NULL, filter = NULL)
```

**Arguments**

name	The name of the dataset to extract
location	(‘type = "event"‘ and ‘type = "shape"‘ only) filter data sets with a valid geojson polygon
date_begin	(‘type = "event"‘ only) filter data sets for those that begin on or after this date specified in ‘YYYY-MM-DD‘ format
date_end	(‘type = "event"‘ only) filter data sets for those that end on or before this date specified in ‘YYYY-MM-DD‘ format
filter	Attribute filtering, see the [documentation]( <a href="http://docs.plenar.io/#attribute-filtering">http://docs.plenar.io/#attribute-filtering</a> )

**Value**

A data.table

**Examples**

```
x <- event_data(name = "crimes_2001_to_present",
                 filter = '{"op": "eq", "col": "primary_type", "val": "HOMICIDE"}',
                 date_begin = "2016-12-01", date_end = "2016-12-31")
```

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get\_response

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Check a GET verb call for errors

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**Description**

Check a GET verb call for errors

**Usage**

```
get_response(url, content_only = TRUE)
```

**Arguments**

url	A query to the plenar.io API in the form of a character string
content_only	Only include the content, discard completion info

**Value**

httr response object

**See Also**

[validate\\_url](#)

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plenar_api	<i>The URL for the Plenar.io API</i>
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**Description**

The URL for the Plenar.io API

**Usage**

plenar\_api

**Format**

A character string

**Source**

<http://docs.plenar.io/#welcome>

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validate_url	<i>Basic quality checks on URL(s)</i>
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**Description**

Basic quality checks on URL(s)

**Usage**

validate\_url(urls)

**Arguments**

urls                      A character vector of URL(s)

**Value**

The original URL(s)

**See Also**

[get\\_response](#)

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