

Package: op3r (via r-universe)

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Title R Interface to the OP3 API

Version 0.1.1

Description The op3r package provides a tidy interface to the Open Prefix Project (OP3) API.

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Remotes rpodcast/podindexr

URL <https://rpodcast.github.io/op3r/>

VignetteBuilder knitr

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

RemoteUrl <https://github.com/rpodcast/op3r>

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<code>get_op3_token</code>	<i>Obtain OP3 API token</i>
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Description

Obtain the OP3 API token from a `.Renviron` file, either stored in the current directory or the user's home directory.

Usage

```
get_op3_token()
```

Value

list with API token

<code>op3_downloads_show</code>	<i>Get monthly and weekly show download counts</i>
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Description

`op3_downloads_show()` obtains the number of monthly downloads and average weekly downloads over the last four weeks (excludes bots)

Usage

```
op3_downloads_show(show_id, nest_downloads = TRUE)
```

Arguments

<code>show_id</code>	One or more character strings of OP3 show UUID values
<code>nest_downloads</code>	Boolean to create a list column of the weekly download metrics or expand the data frame to have one row per week of download metrics. Default is TRUE.

Value

tibble data frame with the following columns:

- `days`: Number of days in time window
- `monthlyDownloads`: Number of downloads in month
- `weeklyAvgDownloads`: Average number of downloads per week in month
- `numWeeks`: Number of weeks in time window
- `download_data`: Nested data frame of download numbers per week (when `nest_downloads` is TRUE)
- `weekNumber`: Week number in time window (when `nest_downloads` is FALSE)
- `weeklyDownloads`: Number of downloads for `weekNumber` (when `nest_downloads` is FALSE)

Examples

```
# Requires API token

op3_downloads_show(show_id = "a18389b8a52d4112a782b32f40f73df6")
```

op3_get_show_uuid *Get podcast OP3 UUID from Podcast GUID or RSS Feed*

Description

op3_get_show_uuid() uses the API to obtain the podcast OP3 UUID based on either the podcast GUID or podcast RSS feed. Only one of the two can be specified.

Usage

```
op3_get_show_uuid(show_guid = NULL, show_rss_url = NULL)
```

Arguments

show_guid String representing the podcast GUID.
show_rss_url String representing the podcast RSS feed

Value

string with the podcast UUID

op3_hits *Get log record metadata for OP3 service*

Description

op3_hits() obtains lowest-level log records for every prefix redirect processed by the OP3 service.

Usage

```
op3_hits(
  format = "json",
  limit = 100,
  desc = TRUE,
  start = NULL,
  start_inclusive = TRUE,
  end = NULL,
  url = NULL,
  hashed_ip_address = NULL
)
```

Arguments

format	result output format returned by the API endpoint. Possible values are json (object-based) or json-a (array-based) formats.
limit	Integer of maximum number of episodes to return. The maximum limit supported for this endpoint is 1000. Default is 100.
desc	Boolean to return results in time-descending order. If FALSE, results are returned in time-ascending order. Default is TRUE.
start	Optional date or date-time object to filter results to those starting at the supplied value. The object must be class Date. Default is NULL.
start_inclusive	Boolean to consider the start date or date-time as inclusive for results. If FALSE, the start value is considered exclusive. Default is TRUE.
end	Optional date or date-time object to filter results to those ending at the supplied value. The object must be class Date. Default is NULL.
url	Optional string to filter results by the specific URL providing the redirect. The URL is often a direct link to a podcast episode file, or a version of the URL with a wildcard character * to enable multiple episodes for a given podcast. Default is NULL.
hashed_ip_address	Optional string to filter results by the specific IP address secure hash. Default is NULL.

Value

Atibble data frame for the json format, otherwise a nested list for the json-a format. The data frame contains the following columns:

- time: Timestamp of current record
- uuid: OP3 UUID for podcast
- hashedIpAddress: Secure hash of the record's originating IP address
- method: Type of HTTP method used
- url: URL of the record's request
- userAgent: Request's reported user agent
- range: If application, the request's specified bytes range.
- edgeColo: Three-letter airport code associated with the record
- continent: The request's originating continent
- country: Two-letter country code of the record
- timezone: Request timezone
- regionCode: Abbreviation of region
- region: Region of request
- metroCode: Region metro code

Examples

```
# Requires API token

# obtain 10 records
op3_hits(limit = 10)

# records based on specific podcast episode
op3_hits(url = "https://op3.dev/e/serve.podhome.fm/episode/99cfd30f-e40c-426a-3557-08dc4ea63bb0/638513408727876")

# records for multiple episodes using a wildcard in URL
op3_hits(url = "https://op3.dev/e/serve.podhome.fm/episode/99cfd30f-e40c-426a-3557-08dc4ea63bb0/*")
```

op3_show	<i>Get podcast show information</i>
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Description

op3_show() obtains show-level information for a given podcast using OP3.

Usage

```
op3_show(show_id, episodes = FALSE)
```

Arguments

show_id	String representing an OP3 show UUID, podcast GUID, or a podcast RSS feed URL.
episodes	Boolean to return episode-level metadata along with the show-level information. Default is FALSE.

Value

tibble data frame with the following columns:

- showUuid: Podcast OP3 UUID
- title: Podcast title
- podcastGuid: Podcast GUID
- statsPageUrl: URL of the OP3 statistics web page for the podcast
- episodes_id: Episode ID (when episodes is TRUE)
- episodes_title: Episode title (when episodes is TRUE)

Examples

```
# Requires API token

op3_show(show_id = "bb28afcc-137e-5c66-b231-4ffad7979b44")
```

op3_token_isset	<i>Detect if OP3 API token is defined</i>
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Description

Detect if OP3 API token is defined

Usage

```
op3_token_isset()
```

Value

boolean, TRUE if 'OP3_API_TOKEN' is defined in the current R session.

op3_top_apps	<i>Get top apps by share of downloads</i>
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Description

op3_top_apps() obtains global shares of application downloads over the last thirty days categorized by application

Usage

```
op3_top_apps(device_name = NULL)
```

Arguments

device_name Optional string of a specific device ID to constrain results.

Value

tibble data frame with the following columns:

- app_name: Device name
- value: Percentage of download share
- min_date: Oldest date in data range
- max_date: Newest date in data range

Examples

```
# Requires API token  
  
op3_top_apps()
```

op3_top_show_apps *Get download numbers by application for a show*

Description

op3_top_show_apps() obtains the download numbers for individual podcast applications over the last three calendar months for a specific show.

Usage

```
op3_top_show_apps(show_id)
```

Arguments

show_id String representing an OP3 show UUID, podcast GUID, or a podcast RSS feed URL.

Value

tibble data frame with the following columns:

- show_uuid: OP3 show UUID
- app_name: Name of podcast application
- value: Number of downloads in the last three calendar months

Examples

```
# Requires API token  
op3_top_show_apps(show_id = "bb28afcc-137e-5c66-b231-4ffad7979b44")
```

op3_transcripts *Get recent episodes with transcripts*

Description

op3_transcripts() obtains the most recent episodes of podcasts using OP3 containing transcripts along with their daily download numbers.

Usage

```
op3_transcripts(limit = 100, nest_downloads = TRUE)
```

Arguments

<code>limit</code>	Integer of maximum number of episodes to return. The maximum limit supported is 100.
<code>nest_downloads</code>	Boolean to create a list column of the daily download metrics or expand the data frame to have one row per day of download metrics. Default is TRUE.

Value

tibble data frame with the following columns:

- `asof`: Timestamp
- `pubdate`: Episode publish timestamp
- `podcastGuid`: Podcast GUID
- `episodeItemGuid`: Episode GUID
- `hasTranscripts`: Boolean indicating if the episode has a transcript
- `dailyDownloads`: List of episode download numbers by date (when `nest_downloads` is TRUE)
- `date`: Date of download number (when `nest_downloads` is FALSE)
- `n_downloads`: Number of downloads for the date (when `nest_downloads` is FALSE)

Examples

```
# Requires API token  
  
op3_transcripts(limit = 5, nest_downloads = FALSE)
```


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