

# Package ‘nsrr’

May 14, 2019

**Type** Package

**Title** Interface to National Sleep Research Resource

**Version** 0.1.2

**Description** Allows users to access data from the National Sleep Research Resource ('NSRR') <<https://sleepdata.org/>>.

**License** GPL-3

**Imports** httr, jsonlite, tools, digest, stats, utils

**Suggests** covr, DT, knitr, rmarkdown, testthat

**Encoding** UTF-8

**LazyData** true

**VignetteBuilder** knitr

**URL** <https://github.com/muschellij2/nsrr>

**BugReports** <https://github.com/muschellij2/nsrr/issues>

**RoxygenNote** 6.1.1

**NeedsCompilation** no

**Author** John Muschelli [aut, cre] (<<https://orcid.org/0000-0001-6469-1750>>)

**Maintainer** John Muschelli <[muschellij2@gmail.com](mailto:muschellij2@gmail.com)>

**Repository** CRAN

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nsrr\_all\_dataset\_files

*NSRR All Dataset files*

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### Description

NSRR All Dataset files

### Usage

```
nsrr_all_dataset_files(dataset, token = nsrr_token(), max_files = Inf)
```

### Arguments

dataset	a dataset "slug", one from <a href="#">nsrr_datasets</a>
token	Token for NSRR resources. Found at <a href="https://sleepdata.org/token">https://sleepdata.org/token</a>
max_files	maximum files to return if not wanting to go through all folders recursively.

### Value

A data.frame of the data sets and their endpoints

### Examples

```
dataset = "shhs"
df = nsrr_all_dataset_files(dataset, max_files = 10)
testthat::expect_lte(nrow(df), 20)
## Not run:
df = nsrr_all_dataset_files(dataset)

## End(Not run)
```

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nsrr\_datasets

*NSRR data sets*

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### Description

NSRR data sets

### Usage

```
nsrr_datasets(token = nsrr_token(), page = NULL)
```

```
nsrr_dataset(dataset = NULL, token = nsrr_token())
```

```
nsrr_dataset_files(dataset = NULL, path = NULL, token = nsrr_token())
```

**Arguments**

token	Token for NSRR resources. Found at <a href="https://sleepdata.org/token">https://sleepdata.org/token</a>
page	which page to grab. Increment over successive requests to retrieve all datasets. A request that return NULL or a number of datasets less than 18 indicates the last page.
dataset	a dataset "slug", one from <a href="#">nsrr_datasets</a>
path	a folder or file path inside the dataset

**Value**

A data.frame of the data sets and their endpoints

**Examples**

```
df = nsrr_datasets()
if (attributes(df)$status_code == 200) {
  testthat::expect_is(df, "data.frame")
  slugs = c("abc", "bestair", "chat", "ccshs", "cfs",
            "heartbeat", "hchs", "homepap", "haassa", "learn")
  testthat::expect_true(all(slugs %in% df$slug))
}
nsrr_dataset(dataset = "shhs", token = "")
dataset = "shhs"
token = NULL
df = nsrr_dataset_files(dataset)
ddf = nsrr_dataset_files(dataset, path = df$full_path[1])

dataset = "shhs"
token = NULL
df = nsrr_dataset_files(dataset)
nsrr_dataset_files("wecare")

testthat::expect_error(nsrr_dataset_files(), "one data")
testthat::expect_error(nsrr_dataset_files(c("shhs", "chat")), "one data")
```

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nsrr_download_url	<i>NSRR Download file</i>
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**Description**

NSRR Download file

**Usage**

```
nsrr_download_url(dataset, path, token = nsrr_token())

nsrr_download_file(dataset, path, token = nsrr_token(),
  check_md5 = TRUE)
```

**Arguments**

dataset	a dataset "slug", one from <a href="#">nsrr_datasets</a>
path	full path to the file.
token	Token for NSRR resources. Found at <a href="https://sleepdata.org/token">https://sleepdata.org/token</a>
check_md5	check if MD5 checksum agrees when downloaded

**Value**

A data.frame of the data sets and their endpoints

**Examples**

```
dataset = "shhs"
path = "datasets/shhs-data-dictionary-0.13.2-domains.csv"
nsrr_download_url(dataset, path, token = "")
if (nsrr_have_token()) {
  res = nsrr_download_file(dataset, path)
  testthat::expect_true(res$success)
  path = "biostatistics-with-r/shhs1.txt"
  res = nsrr_download_file(dataset, path)
}
url = nsrr_download_url("shhs", path = "datasets/CHANGELOG.md",
  token = NULL)
res = nsrr_download_file("shhs", path = "datasets/CHANGELOG.md",
  token = NULL)
testthat::expect_true(res$correct_md5)
res = nsrr_download_file("shhs", path = "datasets/CHANGELOG.md",
  token = NULL, check_md5 = FALSE)
testthat::expect_null(res$correct_md5)
```

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nsrr\_token

*NSRR Token*

---

**Description**

NSRR Token

**Usage**

```
nsrr_token(token = NULL)

nsrr_have_token(token = NULL)

nsrr_auth(token = NULL)

nsrr_authenticated(token = NULL)
```

**Arguments**

token                   Token for NSRR resources. Found at <https://sleepdata.org/token>

**Value**

A character vector or NULL

**Examples**

```
is.null(nsrr_token())
if (!is.null(nsrr_token())) {
  res = nsrr_auth()
  res$authenticated
}
bad_res = nsrr_auth("")
bad_res$authenticated
nsrr_have_token()
nsrr_authenticated()
```

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nsrr\_version

*NSRR Gem version online*

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**Description**

NSRR Gem version online

**Usage**

```
nsrr_version()
```

```
nsrr_gem_version()
```

```
nsrr_api_version()
```

**Value**

A character of the version

**Examples**

```
nsrr_version()
nsrr_gem_version()
```

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nsrr_website	<i>The NSRR Website URL</i>
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**Description**

The NSRR Website URL

**Usage**

```
nsrr_website()
```

```
nsrr_api_url()
```

**Value**

A character value of the website

**Examples**

```
nsrr_website()
```

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