

Package: rHealthDataGov (via r-universe)

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rHealthDataGov-package

Retrieve data sets from the HealthData.gov data API

Description

An R interface for the HealthData.gov data API. For each data resource, you can filter results (server-side) to select subsets of data.

Details

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The main function of this package is `fetch_healthdata`, which is used to query (by filter) and retrieve data from the HealthData.gov data API. Currently, the only interesting data store available via the HealthData.gov API is the "Hospital Compare" data store. This is comprised of 33 data sets containing information about process of care, mortality, and readmission quality measures for U.S. hospitals. This package is part of the rOpenHealth project: <https://github.com/rOpenHealth>

Author(s)

Erin LeDell

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References

<http://www.healthdata.gov>
<http://www.healthdata.gov/data-api>
<http://hub.healthdata.gov/dataset/hospital-compare-api>

fetch_healthdata

Fetch HealthData.gov data sets

Description

Query and retrieve data from the HealthData.gov data API.

Usage

```
fetch_healthdata(resource = "hosp", filter = NULL)
```

Arguments

resource	A string that identifies the name of the desired data resource. See the resources object for names and descriptions of the available data resources. Any name from the resources\$resource column can be a value here.
filter	A list of named filters to apply to the API call. The named list elements must be a field in the given resource. To return all records from a particular data resource, set filter to NULL.

Details

The resources data frame and filters list will be lazy-loaded automatically when you load the package. You can also load them explicitly using the data(resources) and data(filters) commands. The filter(s) will be applied on the server-side.

Value

A data frame containing the results of the API query.

Note

The HealthData.gov API only returns 100 results per HTTP request, so if you query matches more than 100 rows, multiple HTTP requests will be made. After all the records that match your query are retrieved via the API, a data frame containing all the records will be returned. Field types will be converted automatically using the field type information returned by the API. Support for 64-bit integers is provided by the required **bit64** package. Some date fields are designated by the API as "text", and therefore will not be converted automatically. However, there are some fields that are designated as having type, "timestamp", and these columns will be converted from a UTC character string (e.g. "2011-01-01T00:00:00") to R base class "POSIXct".

Author(s)

Erin LeDell

References

<http://www.healthdata.gov/data-api>

Examples

```
## Not run:
df <- fetch_healthdata(resource="hosp", filter=list(addr_city="SAN FRANCISCO"))
head(df)
```

#	addr_city	provider_id	tel_nbr	seqn	addr_line_1
# 1	SAN FRANCISCO	50076	4158332646	38	2425 GEARY BLVD
# 2	SAN FRANCISCO	50228	4152068000	641	1001 POTRERO AVENUE

```

# 3 SAN FRANCISCO      50668 4157592300 660    375 LAGUNA HONDA BLVD
# 4 SAN FRANCISCO      50008 4156006000 1207    45 CASTRO STREET
# 5 SAN FRANCISCO      50152 4153536000 2353    900 HYDE ST
# 6 SAN FRANCISCO      50055 4156416562 2911 3555 CESAR CHAVEZ STREET
#
# ownership_type hsp_accreditation addr_postalcode
# 1 Government - Hospital District or Authority 94115
# 2 Government - Local 94110
# 3 Government - Local 94116
# 4 Voluntary non-profit - Other 94114
# 5 Voluntary non-profit - Private 94109
# 6 Voluntary non-profit - Church 94110
# emergency_serv_type addr_state _id hospital_type
# 1 Yes CA 38 Short-term
# 2 Yes CA 641 Short-term
# 3 Yes CA 660 Short-term
# 4 Yes CA 1207 Short-term
# 5 Yes CA 2353 Short-term
# 6 Yes CA 2911 Short-term
#
# hsp_name county_cd
# 1 KAISER FOUNDATION HOSPITAL - SAN FRANCISCO 480
# 2 SAN FRANCISCO GENERAL HOSPITAL 480
# 3 LAGUNA HONDA HOSPITAL & REHABILITATION CENTER 480
# 4 CALIFORNIA PACIFIC MEDICAL CTR-DAVIES CAMPUS HOSP 480
# 5 SAINT FRANCIS MEMORIAL HOSPITAL 480
# 6 CALIFORNIA PACIFIC MEDICAL CTR - ST. LUKES CAMPUS 480

```

```
## End(Not run)
```

filters

List of supported fields and field values for each of the data resources.

Description

This is a list containing elements for each resource. Each resource element is another list that contains named (filter names) vectors of values (unique filter values).

Usage

```
data(filters)
```

Format

The format is:
List of 33

Details

This list was created by by calling the `fetch_healthdata` function (with `filter = NULL`) on all of the resources and returning the unique values for each column in the resulting data frame.

Source

<http://hub.healthdata.gov/dataset/hospital-compare-api>

References

<http://www.healthdata.gov/data-api>

Examples

```
data(filters)

str(filters$hosp$addr_state)
# chr [1:55] "AK" "AL" "AR" "AZ" "CA" "CO" "CT" "DC" "DE" ...

str(filters$hosp$addr_city)
# chr [1:2832] "ABBEVILLE" "ABERDEEN" "ABILENE" "ABINGDON" ...
```

resources

HealthData.gov resources metadata

Description

This is a data frame that contains the resource names which can be passed as a string to the `resource` argument of the `fetch_healthdata` function. It also contains resource descriptions and other meta-data.

Usage

```
data(resources)
```

Format

A data frame with 33 observations on the following 6 variables.

`resource` a factor with levels `ahrqn ahrqp ahrqs cacn cacop cacp cacs cn cp cs hacn hACP haip hais hn hophc hophp hopnp hopqdrpq hopsP hosp hp hpv hs npv on op oq os ppv q sm spv`

`description` a character vector

`date` a Date

`nrow` a numeric vector

`ncol` a numeric vector

`resource_id` a factor (with levels identified by a hash assigned by HealthData.gov)

There are 33 available resources which can be queried by their resource name. The names, descriptions, source dates, number of records and fields, and resource ids are available in this data frame.

<http://hub.healthdata.gov/dataset/hospital-compare-api>

<http://www.healthdata.gov/data-api>

```
data(resources)
head(resources[,1:2])
#   resource description
# 1   ahrqn Healthcare Research and Quality Indicators, Natioanal data
# 2   ahrqp Healthcare Research and Quality Indicators, Providers
# 3   ahrqs Healthcare Research and Quality Indicators, State data
# 4   cacn Childrens Asthma Care National (CACN)
# 5   cacop Childrens Asthma Care Only Providers (CACOP)
# 6   cACP Childrens Asthma Care Providers (CACP)
```

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