

# Package ‘openadds’

January 3, 2017

**Title** Client to Access 'Openaddresses' Data

**Description** 'Openaddresses' (<<https://openaddresses.io/>>) client. Search, fetch data, and combine 'datasets'. Outputs are easy to visualize with base plots, 'ggplot2', or 'leaflet'.

**Version** 0.2.0

**License** MIT + file LICENSE

**URL** <https://github.com/sckott/openadds>

**BugReports** <https://github.com/sckott/openadds/issues>

**LazyData** true

**Imports** crul (>= 0.1.6), jsonlite (>= 1.2), readr (>= 1.0.0), dplyr (>= 0.5.0), tibble (>= 1.2), xml2 (>= 1.0.0), maptools (>= 0.8-40), rappdirs (>= 0.3.1)

**Suggests** roxygen2 (>= 5.0.1), testthat, leaflet, covr

**RoxygenNote** 5.0.1

**NeedsCompilation** no

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**Repository** CRAN

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openadds-package      *R client for Openaddresses.io data*

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**Description**

R client for Openaddresses.io data

**Author(s)**

Scott Chamberlain <myrmecocystus@gmail.com>

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as\_openadd      *Coerce to openadd object*

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**Description**

Coerce to openadd object

**Usage**

```
as_openadd(country = NULL, state = NULL, city = NULL, ...)
```

**Arguments**

country	(character) Country name
state	(character) State (or province) name
city	(character) City name
...	ignored

**Details**

This is a helper function to let the user specify what they want with any combination of country, state, and city - the output of which can be passed to [oa\\_get](#) to get data.

If your search results in more than 1 result, we stop with message to refine your search.

**Value**

an object of class openadd

**Examples**

```
## Not run:  
as_openadd(country="us", state="nv", city="las_vegas")  
  
# too coarse, will ask you to refine your search  
# as_openadd(country="us", state="mi", city="detroit")  
  
## End(Not run)
```

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oa_cache	<i>Manage cached files</i>
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### Description

Manage cached files

### Usage

```
oa_cache_list()

oa_cache_delete(files, force = TRUE)

oa_cache_delete_all(force = TRUE)

oa_cache_details(files = NULL)
```

### Arguments

files	File name or names
force	(logical) Should files be force deleted? Default: FALSE

### Details

cache\_delete only accepts 1 file name, while cache\_delete\_all doesn't accept any names, but deletes all files. For deleting many specific files, use cache\_delete in a [lapply](#) type call

We cache using [user\\_cache\\_dir](#), find your cache folder by executing `rappdirs::user_cache_dir("openadds-cache")`

### Examples

```
## Not run:
# list files in cache
oa_cache_list()

# List info for single files
oa_cache_details(files = oa_cache_list()[1])
oa_cache_details(files = oa_cache_list()[2])

# List info for all files
oa_cache_details()

# delete files by name in cache
# oa_cache_delete(files = oa_cache_list()[1])

# delete all files in cache - BE CAREFUL, MAKE SURE YOU WANT TO DO THIS
# oa_cache_delete_all()

## End(Not run)
```

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`oa_combine`*Combine data helper*

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**Description**

Combine data helper

**Usage**

```
oa_combine(...)
```

**Arguments**

... Data sets, all need to be of class oa

**Details**

Gives back a single `tbl_df`, with a subset of columns, currently `lon`, `lat`, and `address`.

This function attempts to combine, but may fail sometimes.

**Value**

a tibble (a `data.frame`) of all the inputs combined, with attributes for original urls and paths on disk

**Examples**

```
## Not run:
dat <- oa_list()

out1 <- oa_get(dat$processed[5])
out2 <- oa_get(dat$processed[35])
(alldat <- oa_combine(out1, out2))

out4 <- oa_get(dat$processed[788])
(alldat <- oa_combine(out2, out4))

if (!requireNamespace("leaflet")) {
  install.packages("leaflet")
}
library("leaflet")
leaflet(alldat) %>%
  addTiles() %>%
  addCircles(lat = ~lat, lng = ~lon, popup = ~address)

## End(Not run)
```



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

---

oa_list	<i>List available data</i>
---------	----------------------------

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**Description**

List available data

**Usage**

```
oa_list(...)
```

**Arguments**

... Pass on curl options to [HttpClient](#)

**Value**

A tibble (a data.frame)

**Examples**

```
## Not run:  
(res <- oa_list())  
  
# mean address count per state/country/etc  
mean(res$`address count`, na.rm = TRUE)  
  
## End(Not run)
```

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oa_readme	<i>Print readme from one or more datasets</i>
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**Description**

Print readme from one or more datasets

**Usage**

```
oa_readme(x)
```

**Arguments**

x input, either an object of class oa or a list of such objects

**Value**

character string

**Examples**

```
## Not run:
# single
url1 <- "http://data.openaddresses.io/runs/33311/us/mi/ottawa.zip"
xx <- oa_get(url1)
oa_readme(xx)
cat(oa_readme(xx))

# many at once
url2 <- "http://data.openaddresses.io/runs/101436/us/ca/yolo.zip"
zz <- oa_get(url2)
oa_readme(list(xx, zz))
cat(oa_readme(list(xx, zz)), sep = "\n\n")

## End(Not run)
```

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oa\_search

*Search Openaddresses datasets*

---

**Description**

Search Openaddresses datasets

**Usage**

```
oa_search(country = NULL, state = NULL, city = NULL, ...)
```

**Arguments**

country	(character) Country name
state	(character) State (or province) name
city	(character) City name
...	Pass on curl options to <a href="#">HttpClient</a>

**Value**

a tibble (a data.frame)

**Examples**

```
## Not run:  
# return all data in a data.frame  
oa_search()  
  
# search by various combinations  
oa_search(country = "us")  
oa_search(country = "us", state = "ca")  
oa_search(state = "tx")  
oa_search(city = "houston")  
oa_search("us", "nv", "las_vegas")  
  
## End(Not run)
```



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