

Retrieving multi-file ZIP resources

Some resources from the City of Toronto Open Data Portal are ZIP files containing multiple files. When a resource like this is retrieved using `get_resource()`, the result is a list with elements named after each file.

For example, the dataset on the Annual Summary of Reportable Communicable Diseases:

```
library(opendatatoronto)
library(dplyr)

summary_diseases <- search_packages("Annual Summary of Reportable Communicable Diseases") %>%
  list_package_resources() %>%
  filter(name == "summary-of-reportable-communicable-diseases-in-toronto-2007-2017") %>%
  get_resource()

str(summary_diseases, max.level = 1)
#> List of 6
#> $ ChickenpoxAgegroups2017.csv : tibble [3 x 14] (S3: tbl_df/tbl/data.frame)
#> $ DiseaseSexandAgegroups2017.csv : tibble [117 x 22] (S3: tbl_df/tbl/data.frame)
#> $ MeansbyDiseaseSex2007_2016.csv : tibble [120 x 13] (S3: tbl_df/tbl/data.frame)
#> $ RatesbyDisease2007_2017.csv : tibble [62 x 23] (S3: tbl_df/tbl/data.frame)
#> $ RatesbyDiseaseandSex2007_2017.csv : tibble [121 x 35] (S3: tbl_df/tbl/data.frame)
#> $ read me file for annual report data.xlsx: tibble [28 x 3] (S3: tbl_df/tbl/data.frame)
```

To access a single file, you can pull out the element by name:

```
summary_diseases[["RatesbyDisease2007_2017.csv"]]
#> # A tibble: 62 x 23
#>   Disease      X2007 X2007.1 X2008 X2008.1 X2009 X2009.1 X2010 X2010.1
#>   <chr>      <chr> <chr> <chr> <chr> <chr> <chr> <chr>
#> 1 ""          #      Rate*  #      Rate  #      Rate  #      Rate
#> 2 "Acute fla~ 0      0      0      0      0      0      0
#> 3 "AIDS"      98     3.7    111    4.2    68     2.6    61     2.3
#> 4 "HIV"       619    23.6   541    20.6   532    20     496    18.5
#> 5 "Amebiasis~ 405    15.5   411    15.6   432    16.3   427    16
#> 6 "Botulism " 0      0      2      <0.1   1      <0.1   0      0
#> 7 "Brucellos~ 1      <0.1   1      <0.1   1      <0.1   0      0
#> 8 "Campyloba~ 982    37.5   992    37.7   772    29.1   752    28.1
#> 9 "Chickenpo~ 2,931  112    2,327  88.4   2,109  79.5   1,942  72.6
#> 10 "Chlamydia" 7,027  268.5  7,379  280.3  7,957  299.8  8,837  330.2
#> # i 52 more rows
#> # i 14 more variables: X2011 <chr>, X2011.1 <chr>, X2012 <chr>,
#> #   X2012.1 <chr>, X2013 <chr>, X2013.1 <chr>, X2014 <chr>,
#> #   X2014.1 <chr>, X2015 <chr>, X2015.1 <chr>, X2016 <chr>,
#> #   X2016.1 <chr>, X2017 <chr>, X2017.1 <chr>
```