Package ‘canadacovid’

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Title API Wrapper for the Canadian COVID-19 Tracker
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get_content_parsed

Description
Sends a GET request to https://api.covid19tracker.ca/. If the request is successful and the returned content is JSON, formats it and returns it parsed (via `jsonlite::fromJSON`).

Usage
get_content_parsed(url)

Arguments
url A string URL linking to the API. If it does not contain the base "https://api.covid19tracker.ca", then url will be combined with the base to attempt to make a valid URL (and return a warning).

Value
A list.

Examples

get_content_parsed("https://api.covid19tracker.ca/provinces")

get_provinces

Description
Get provinces and territories

Usage
get_provinces(geo_only = TRUE)

Arguments
geo_only Logical, indicating if only provinces/territories should be returned. If FALSE, also returned non-geographic entities like Repatriated Canadians and the Federal Allocation for vaccinations.
Value

A data frame with a row per province/territory.

Examples

get_regions()
get_regions(geo_only = FALSE)

data frame with a row per health region.

get_regions

Get health regions

Description

Returns a list of health regions in the COVID-19 tracker. By default (hr_uid and province NULL), returns all 92 regions.

Usage

get_regions(hr_uid = NULL, province = NULL)

Arguments

hr_uid One or more health region UIDs (e.g. 3553) to return.
province One or more provinces to return.

Examples

get_regions()
get_regions(hr_uid = c("2414", 591))
get_regions(province = c("ns", "SK"))
get_reports

Get the day-to-day reports

Description

Runs a GET request of reports data from the COVID-19 tracker API, and returns parsed data. Via the split argument, data may be "overall" (all provinces/territories combined), or by "province". Alternatively, provide one or more two-letter codes (e.g. "AB") to province to return reports for specific provinces, or one or more numeric region codes (e.g. "1204") to return specific health regions.

Usage

get_reports(
  split = c("overall", "province"),
  province = NULL,
  region = NULL,
  fill_dates = NULL,
  stat = NULL,
  date = NULL,
  after = NULL,
  before = NULL
)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>split</td>
<td>One of &quot;overall&quot;, or &quot;province&quot; to specify how the data is split. An &quot;overall&quot; report gives cumulative numbers across Canada. Splitting by &quot;province&quot; returns all reports for all provinces/territories.</td>
</tr>
<tr>
<td>province</td>
<td>One or more province/territory codes (&quot;AB&quot;, &quot;BC&quot;, &quot;MB&quot;, &quot;NB&quot;, &quot;NL&quot;, &quot;NS&quot;, &quot;NT&quot;, &quot;NU&quot;, &quot;ON&quot;, &quot;PE&quot;, &quot;QC&quot;, &quot;SK&quot;, &quot;YT&quot;) to get reports. Upper, lower and mixed case strings are accepted.</td>
</tr>
<tr>
<td>region</td>
<td>One or more health region IDs to get reports. Numeric and character values are accepted.</td>
</tr>
<tr>
<td>fill_dates</td>
<td>When TRUE, the response fills in any missing dates with blank entries.</td>
</tr>
<tr>
<td>stat</td>
<td>Returns only the specified statistics, e.g. &quot;cases&quot;.</td>
</tr>
<tr>
<td>date</td>
<td>Returns reports from only the specified date, in YYYY-MM-DD format.</td>
</tr>
<tr>
<td>after</td>
<td>Returns reports from only on or after the specified date, in YYYY-MM-DD format.</td>
</tr>
<tr>
<td>before</td>
<td>Returns reports from only on or before the specified date, in YYYY-MM-DD format.</td>
</tr>
</tbody>
</table>

Value

A data frame containing the reports data, one row per day. Includes a province variable if data is split by province, and a hr_uid variable if data is split by health region.
get_subregions

Examples

```r
get_reports()
get_reports("province")
get_reports(province = c("AB", "SK"))
get_reports(region = 1204)
get_reports(region = c("472", 1204), stat = "cases")
```

get_subregions

Get sub-regions

Description

Returns a list of sub-regions in the COVID-19 tracker. By default, returns all 805 sub-regions.

Usage

```r
get_subregions(subregion_code = NULL)
```

Arguments

- `subregion_code`: One or more sub-regions to be returned.

Value

A data frame with a row per sub-region.

Examples

```r
get_subregions()
get_subregions("AB001")
get_subregions(c("SK003", "SK005"))
```

get_subregion_vaccination_data

Get sub-region vaccination data

Description

Runs a GET request of sub-region vaccination data from the COVID-19 tracker API, and returns parsed data. The `dates` argument specifies the time frame of the data: “current” (the default; latest report for each sub-region), "recent" (15 most recent reports for each sub-region), and “all” (returns all reports for one or more sub-regions specified by the `subregion_code` argument). To get a list of available sub-regions, use the function `get_subregions()`.
Usage

get_subregion_vaccination_data(
    dates = c("current", "recent", "all"),
    subregion_code = NULL
)

Arguments

dates
  One of "current", "recent", or "all" to specify the time frame of the reports returned. If choosing "all" reports, must also provide one or more sub-region codes.

subregion_code
  One or more sub-region codes. Returns all reports for those sub-regions (even if dates is not "all")

Details

Note that sub-region vaccination data is only for select provinces and territories. Also the percentages reported differ between percent of total population, and percent of eligible population. See the API documentation for more details: https://api.covid19tracker.ca/docs/1.0/vaccinations.

Value

A data frame with one row per sub-region report.

Examples

get_subregion_vaccination_data()
get_subregion_vaccination_data("recent")
get_subregion_vaccination_data("all", subregion_code = c("ON382", "SK007"))

get_summary

Get the most recent summary data

Description

Runs a GET request of summary data from the COVID-19 tracker API, and returns parsed data. Via the split argument, data may be "overall" (all provinces/territories combined), by "province" (one row per province/territory) or by "region" (one row per health region).

Usage

get_summary(split = c("overall", "province", "region"))

Arguments

split
  One of "overall", "province", or "region" to specify how the data is split.
Value

A data frame containing the summary data.

Examples

```r
get_summary()
get_summary("province")
get_summary("region")
```

### Description

Runs a GET request of vaccination data from the COVID-19 tracker API, and returns parsed data. Data may be returned as `type = "summary"` (the most recent data) or `type = "reports"` (day-to-day reports). Via the `split` argument, data may be "overall" (all provinces/territories combined), by "province", or by "region". Alternatively, provide one or more two-letter codes (e.g. "AB") to province to return reports for specific provinces, or one or more numeric region codes (e.g. "1204") to return specific health regions.

### Usage

```r
get_vaccination_data(
  type = c("summary", "reports"),
  split = c("overall", "province", "region"),
  province = NULL,
  region = NULL,
  fill_dates = NULL,
  stat = NULL,
  date = NULL,
  after = NULL,
  before = NULL
)
```

### Arguments

- **type**: One of "summary" (most recent data) or "reports" (day-to-day data).
- **split**: One of "overall", "province", or "region" to specify how the data is split. An "overall" summary or report gives cumulative numbers across Canada. Splitting by "province" returns data for all provinces/territories. Splitting by "region" is only available for "summary" data, and returns data for all health regions.
- **province**: One or more province/territory codes ("AB", "BC", "MB", "NB", "NL", "NS", "NT", "NU", "ON", "PE", "QC", "SK", "YT") to get reports. Upper, lower and mixed case strings are accepted.
get_vaccine_age_groups

Description
Runs a GET request of vaccination data by age groups from the COVID-19 tracker API, and returns parsed data. Via the `split` argument, data may be "overall" (all provinces/territories combined), or by "province". Alternatively, provide one or more two-letter codes (e.g. "AB") to `province` to return reports for specific provinces.

Usage
```r
get_vaccine_age_groups(
  split = c("overall", "province"),
  province = NULL,
  group = NULL,
  before = NULL,
  after = NULL
)
```
get_vaccine_age_groups

**Arguments**

- **split**
  One of "overall", or "province" to specify how the data is split. An "overall" report gives cumulative numbers across Canada. Splitting by "province" returns all reports for all provinces/territories.

- **province**
  One or more province/territory codes ("AB", "BC", "MB", "NB", "NL", "NS", "NT", "NU", "ON", "PE", "QC", "SK", "YT") to get reports. Upper, lower and mixed case strings are accepted.

- **group**
  A specific age group to return, for example: "0-4", "05-11", "30-39", "80+", "not_reported"

- **before**
  Returns reports from only on or before the specified date, in YYYY-MM-DD format.

- **after**
  Returns reports from only on or after the specified date, in YYYY-MM-DD format.

**Value**

A data frame with, one row per age group per date. Includes a province variable if data is split by province.

**Examples**

```r
get_vaccine_age_groups()
get_vaccine_age_groups(split = "province")
get_vaccine_age_groups(province = c("AB", "SK"))
get_vaccine_age_groups(province = "NS", group = "18-29")
get_vaccine_age_groups(group = "80+", after = "2021-12-01")
```
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