Package ‘tinytiger’

August 27, 2022

Title Lightweight Interface to TIGER/Line Shapefiles

Version 0.0.4

Description Download geographic shapes from the United States Census Bureau TIGER/Line Shapefiles <https://www.census.gov/geographies/mapping-files/time-series/geo/tiger-line-file.html>. Functions support downloading and reading in geographic boundary data. All downloads can be set up with a cache to avoid multiple downloads. Data is available back to 2000 for most geographies.

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Depends R (>= 2.10)

Imports rlang, cli, glue, curl, sf

Suggests knitr, rappdirs, rmarkdown, testthat (>= 3.0.0)

Encoding UTF-8

RoxygenNote 7.2.1

LazyData true


BugReports https://github.com/alarm-redist/tinytiger/issues

Config/testthat/edition 3

VignetteBuilder knitr

NeedsCompilation no

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Repository CRAN

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### Description

Contains three columns:

- state: state FIPS
- county: county FIPS
- name: county name

### Usage

```r
data("county_fips_2020")
```

### Value

tibble

### tt_address_ranges

**Download TIGER shapes for Address Ranges**

#### Description

Download TIGER shapes for Address Ranges

#### Usage

```r
tt_address_ranges(state, county, year = 2021)
```

#### Arguments

- **state**: FIPS, postal codes, or full names of states.
- **county**: FIPS codes or full names of counties. Optional.
- **year**: Integer year. Required. 2000 and 2010-2021 are currently supported.

#### Value

sf data.frame

#### Examples

```r
# Wrapped in try due to false positive 304 errors
try(tt_address_ranges("DE", county = "001"))
```
tt_ai_an_nh_areas  Download TIGER shapes for American Indian / Alaska Native / Native Hawaiian Areas

Description
Download TIGER shapes for American Indian / Alaska Native / Native Hawaiian Areas

Usage
tt_ai_an_nh_areas(year = 2021)

Arguments
year  Integer year. Required. 2000 and 2010-2021 are currently supported.

Value
sf data.frame

Examples
# Wrapped in try due to false positive 304 errors
try(tt_ai_an_nh_areas())

---------
tt_anrc  Download TIGER shapes for Alaska Native Regional Corporation (Alaska)

Description
Download TIGER shapes for Alaska Native Regional Corporation (Alaska)

Usage
tt_anrc(year = 2021)

Arguments
year  Integer year. Required. 2000 and 2010-2021 are currently supported.

Value
sf data.frame

Examples
# Wrapped in try due to false positive 304 errors
try(tt_anrc())
**tt_area_landmarks**

Download TIGER shapes for Area Landmarks

**Description**

Download TIGER shapes for Area Landmarks

**Usage**

```
tt_area_landmarks(state, year = 2021)
```

**Arguments**

- `state` FIPS, postal codes, or full names of states.
- `year` Integer year. Required. 2000 and 2010-2021 are currently supported.

**Value**

sf data.frame

**Examples**

```
# Wrapped in try due to false positive 304 errors
try(tt_area_landmarks("DE"))
```

**tt_area_water**

Download TIGER Shapes for Area Water

**Description**

Download TIGER Shapes for Area Water

**Usage**

```
tt_area_water(state, county, year = 2021)
```

**Arguments**

- `state` FIPS, postal codes, or full names of states.
- `county` FIPS codes or full names of counties. Optional.
- `year` Integer year. Required. 2000 and 2010-2021 are currently supported.

**Value**

sf data.frame
Examples

# Wrapped in try due to false positive 304 errors
try(tt_area_water("DE"))

---

tt_blocks

*Download TIGER shapes for blocks*

**Description**

Download TIGER shapes for blocks

**Usage**

```r
tt_blocks(state = "DE", county = "001")
```

**Arguments**

- **state** FIPS, postal codes, or full names of states.
- **county** FIPS codes or full names of counties. Optional.
- **year** Integer year. Required. 2000 and 2010-2021 are currently supported.

**Value**

sf data.frame

**Examples**

# Wrapped in try due to false positive 304 errors
try(tt_blocks(state = "DE", county = "001"))

---

tt_block_groups

*Download TIGER shapes for block groups*

**Description**

Download TIGER shapes for block groups

**Usage**

```r
tt_block_groups(state, county, year = 2021)
```

**Arguments**

- **state** FIPS, postal codes, or full names of states.
- **county** FIPS codes or full names of counties. Optional.
- **year** Integer year. Required. 2000 and 2010-2021 are currently supported.
tt_cache_size

Value

sf data.frame

Examples

# Wrapped in try due to false positive 304 errors
try(tt_block_groups(state = "DE", county = "001"))

Description

Functions to inspect and clear the cache. If the cache is not enabled, uses a temporary directory.

Usage

tt_cache_size()

tt_cache_clear(force = FALSE)

tt_cache_path()

Arguments

force FALSE by default. Asks the user to confirm if interactive. Does not clear cache if force is FALSE and not interactive.

Value

For tt_cache_size(), the size in bytes, invisibly
For tt_cache_clear(), the path to the cache, invisibly.
For tt_cache_path(), the path to the cache

Examples

tt_cache_size()

tt_cache_clear()

tt_cache_path()
### tt_cbsa

*Download TIGER shapes for Core Based Statistical Areas*

#### Description

Download TIGER shapes for Core Based Statistical Areas

#### Usage

```r
tt_cbsa(year = 2021)
```

#### Arguments

- `year`: Integer year. Required. 2000 and 2010-2021 are currently supported.

#### Value

- sf data.frame

#### Examples

```r
# takes > 5 seconds
# Wrapped in try due to false positive 304 errors
try(tt_cbsa())
```

### tt_coastline

*Download TIGER shapes for Coastlines*

#### Description

Download TIGER shapes for Coastlines

#### Usage

```r
tt_coastline(year = 2021)
```

#### Arguments

- `year`: Integer year. Required. 2000 and 2010-2021 are currently supported.

#### Value

- sf data.frame
**tt_congressional_districts**

**Examples**

```r
# takes > 5 seconds
# Wrapped in try due to false positive 304 errors
try(tt_coastline())
```

---

**tt_congressional_districts**

*Download TIGER shapes for congressional districts*

**Description**

Download TIGER shapes for congressional districts

**Usage**

```r
tt_congressional_districts(state, year = 2021)
```

**Arguments**

- `state` FIPS, postal codes, or full names of states.
- `year` Integer year. Required. 2000 and 2010-2021 are currently supported.

**Value**

sf data.frame

**Examples**

```r
# takes > 5 seconds
# Wrapped in try due to false positive 304 errors
try(tt_congressional_districts())
```

---

**tt_consolidated_cities**

*Download TIGER shapes for Public Use Microdata Areas*

**Description**

Download TIGER shapes for Public Use Microdata Areas

**Usage**

```r
tt_consolidated_cities(state, year = 2021)
```
Arguments

state  FIPS, postal codes, or full names of states.
year   Integer year. Required. 2000 and 2010-2021 are currently supported.

Value

sf data.frame

Examples

# Wrapped in try due to false positive 304 errors
try(tt_consolidated_cities("CT"))

# takes > 5 seconds
# Wrapped in try due to false positive 304 errors
try(tt_counties(state = "DE"))
tt_county_subdivisions

Description

Download TIGER shapes for County Subdivisions

Usage

tt_county_subdivisions(state, year = 2021)

Arguments

state     FIPS, postal codes, or full names of states.
year      Integer year. Required. 2000 and 2010-2021 are currently supported.

Value

sf data.frame

Examples

# Wrapped in try due to false positive 304 errors
try(tt_county_subdivisions("DE"))

tt_csa

Description

Download TIGER shapes for Combined Statistical Area

Usage

tt_csa(year = 2021)

Arguments

year      Integer year. Required. 2000 and 2010-2021 are currently supported.

Value

sf data.frame
Examples

# Wrapped in try due to false positive 304 errors
try(tt_csa())

---

```r
## Download TIGER shapes for Elementary School Districts
tt_elementary_school_districts
```

Description

Download TIGER shapes for Elementary School Districts

Usage

tt_elementary_school_districts(state, year = 2021)

Arguments

- `state`: FIPS, postal codes, or full names of states.
- `year`: Integer year. Required. 2000 and 2010-2021 are currently supported.

Value

`sf` data.frame

Examples

# Wrapped in try due to false positive 304 errors
try(tt_elementary_school_districts("AZ"))

---

```r
## Download TIGER shapes for Estates (US Virgin Islands)
tt_estates
```

Description

Download TIGER shapes for Estates (US Virgin Islands)

Usage

tt_estates(year = 2021)

Arguments

- `year`: Integer year. Required. 2000 and 2010-2021 are currently supported.
Value

sf data.frame

Examples

# Wrapped in try due to false positive 304 errors
try(tt_estates())

download_tiger_shape

Description

Download TIGER Shapes for Linear Water

Usage

tt_linear_water(state, county, year = 2021)

Arguments

state  FIPS, postal codes, or full names of states.
county FIPS codes or full names of counties. Optional.
year   Integer year. Required. 2000 and 2010-2021 are currently supported.

Value

sf data.frame

Examples

# Wrapped in try due to false positive 304 errors
try(tt_linear_water("DE"))
tt_metropolitan_divisions

*Description*

Download TIGER shapes for Metropolitan Divisions

*Usage*

```r
tt_metropolitan_divisions(year = 2021)
```

*Arguments*

- `year` (integer): Required. 2000 and 2010-2021 are currently supported.

*Value*

- `sf` data.frame

*Examples*

```r
# Wrapped in try due to false positive 304 errors
try(tt_metropolitan_divisions())
```

---

tt_military

*Description*

Download TIGER shapes for Military Installations

*Usage*

```r
tt_military(year = 2021)
```

*Arguments*

- `year` (integer): Required. 2000 and 2010-2021 are currently supported.

*Value*

- `sf` data.frame

*Examples*

```r
# Wrapped in try due to false positive 304 errors
try(tt_military())
```
tt_new_england_cities  Download TIGER shapes for New England City and Town Area

Description

Download TIGER shapes for New England City and Town Area

Usage

    tt_new_england_cities(year = 2021)

Arguments

    year  Integer year. Required. 2000 and 2010-2021 are currently supported.

Value

    sf data.frame

Examples

    # Wrapped in try due to false positive 304 errors
    try(tt_new_england_cities())

---

tt_new_england_city_divisions  Download TIGER shapes for New England City and Town Area Divisions

Description

Download TIGER shapes for New England City and Town Area Divisions

Usage

    tt_new_england_city_divisions(year = 2021)

Arguments

    year  Integer year. Required. 2000 and 2010-2021 are currently supported.

Value

    sf data.frame

Examples

    # Wrapped in try due to false positive 304 errors
    try(tt_new_england_city_divisions())
tt_new_england_combined_areas

*Download TIGER shapes for New England Combined City and Town Areas*

**Description**

Download TIGER shapes for New England Combined City and Town Areas

**Usage**

```
tt_new_england_combined_areas(year = 2021)
```

**Arguments**

- `year` Integer year. Required. 2000 and 2010-2021 are currently supported.

**Value**

sf data.frame

**Examples**

```
# Wrapped in try due to false positive 304 errors
try(tt_new_england_combined_areas())
```

---

tt_places

*Download TIGER shapes for Places*

**Description**

Download TIGER shapes for Places

**Usage**

```
tt_places(state, year = 2021)
```

**Arguments**

- `state` FIPS, postal codes, or full names of states.
- `year` Integer year. Required. 2000 and 2010-2021 are currently supported.

**Value**

sf data.frame
**Examples**

```r
# Wrapped in try due to false positive 304 errors
try(tt_places("DE"))
```

**Description**

Download TIGER shapes for Point Landmarks

**Usage**

```r
tt_point_landmarks(state, year = 2021)
```

**Arguments**

- **state**: FIPS, postal codes, or full names of states.
- **year**: Integer year. Required. 2000 and 2010-2021 are currently supported.

**Value**

sf data.frame

**Examples**

```r
# Wrapped in try due to false positive 304 errors
try(tt_point_landmarks("DE"))
```

**Description**

Download TIGER shapes for Polygon Edges

**Usage**

```r
tt_polygon_edges(state, county, year = 2021)
```

**Arguments**

- **state**: FIPS, postal codes, or full names of states.
- **county**: FIPS codes or full names of counties. Optional.
- **year**: Integer year. Required. 2000 and 2010-2021 are currently supported.
Description

Download TIGER shapes for Polygon Faces

Usage

```r
tt_polygon_faces(state, county, year = 2021)
```

Arguments

- **state**: FIPS, postal codes, or full names of states.
- **county**: FIPS codes or full names of counties. Optional.
- **year**: Integer year. Required. 2000 and 2010-2021 are currently supported.

Value

*sf data.frame*

Examples

```r
# Wrapped in try due to false positive 304 errors
try(tt_polygon_edges("DE", county = "001"))
```

```r
# Wrapped in try due to false positive 304 errors
try(tt_polygon_faces("DE", county = "001"))
```
**tt_primary_roads**  
*Download TIGER shapes for Primary Roads*

**Description**

Download TIGER shapes for Primary Roads

**Usage**

```r
tt_primary_roads(year = 2021)
```

**Arguments**

- `year`  
  Integer year. Required. 2000 and 2010-2021 are currently supported.

**Value**

sf data.frame

**Examples**

```r
# takes > 5 seconds  
# Wrapped in try due to false positive 304 errors
try(tt_primary_roads())
```

---

**tt_primary_secondary_roads**  
*Download TIGER shapes for Primary and Secondary Roads*

**Description**

Download TIGER shapes for Primary and Secondary Roads

**Usage**

```r
tt_primary_secondary_roads(state, year = 2021)
```

**Arguments**

- `state`  
  FIPS, postal codes, or full names of states.
- `year`  
  Integer year. Required. 2000 and 2010-2021 are currently supported.

**Value**

sf data.frame
**Examples**

```r
try(tt_primary_secondary_roads("DE"))
```

---

**tt_puma**  
*Download TIGER shapes for Public Use Microdata Areas*

**Description**

Download TIGER shapes for Public Use Microdata Areas

**Usage**

```r
tt_puma(state, year = 2021)
```

**Arguments**

- `state`: FIPS, postal codes, or full names of states.
- `year`: Integer year. Required. 2000 and 2010-2021 are currently supported.

**Value**

`sf data.frame`

**Examples**

```r
try(tt_puma("DE"))
```

---

**tt_rails**  
*Download TIGER shapes for Rails*

**Description**

Download TIGER shapes for Rails

**Usage**

```r
tt_rails(year = 2021)
```

**Arguments**

- `year`: Integer year. Required. 2000 and 2010-2021 are currently supported.

**Value**

`sf data.frame`
tt_roads

Examples

# takes > 5 seconds
# Wrapped in try due to false positive 304 errors
try(tt_rails())

Description

Download TIGER shapes for Roads

Usage

tt_roads(state, county, year = 2021)

Arguments

  state  FIPS, postal codes, or full names of states.
  county FIPS codes or full names of counties. Optional.
  year   Integer year. Required. 2000 and 2010-2021 are currently supported.

Value

sf data.frame

Examples

# Wrapped in try due to false positive 304 errors
try(tt_roads("DE"))

---

tt_secondary_school_districts

Description

Download TIGER shapes for Secondary School Districts

Usage

tt_secondary_school_districts(state, year = 2021)
Arguments

state  FIPS, postal codes, or full names of states.
year  Integer year. Required. 2000 and 2010-2021 are currently supported.

Value

sf data.frame

Examples

# Wrapped in try due to false positive 304 errors
try(tt_secondary_school_districts("AZ"))

---

**tt_states**  
*Download TIGER shapes for states*

Description

Download TIGER shapes for states

Usage

```r
tt_states(year = 2021)
```

Arguments

year  Integer year. Required. 2000 and 2010-2021 are currently supported.

Value

sf data.frame

Examples

# Wrapped in try due to false positive 304 errors
try(tt_states())
**tt_state_leg_lower**  
*Download TIGER shapes for lower state legislative districts*

**Description**
Download TIGER shapes for lower state legislative districts

**Usage**
```r
tt_state_leg_lower(state, year = 2021)
```

**Arguments**
- `state`: FIPS, postal codes, or full names of states.
- `year`: Integer year. Required. 2000 and 2010-2021 are currently supported.

**Value**
sf data.frame

**Examples**
```r
# Wrapped in try due to false positive 304 errors
try(tt_state_leg_lower("DE"))
```

---

**tt_state_leg_upper**  
*Download TIGER shapes for upper state legislative districts*

**Description**
Download TIGER shapes for upper state legislative districts

**Usage**
```r
tt_state_leg_upper(state, year = 2021)
```

**Arguments**
- `state`: FIPS, postal codes, or full names of states.
- `year`: Integer year. Required. 2000 and 2010-2021 are currently supported.

**Value**
sf data.frame
Examples

```r
# Wrapped in try due to false positive 304 errors
try(tt_state_leg_lower("DE"))
```

---------

**tt_subbarrios**

*Download TIGER shapes for Subbarrios (Puerto Rico)*

Description

Download TIGER shapes for Subbarrios (Puerto Rico)

Usage

```r
tt_subbarrios(year = 2021)
```

Arguments

- **year**
  Integer year. Required. 2000 and 2010-2021 are currently supported.

Value

*sf data.frame*

Examples

```r
# Wrapped in try due to false positive 304 errors
try(tt_subbarrios())
```

---------

**tt_tracts**

*Download TIGER shapes for tracts*

Description

Download TIGER shapes for tracts

Usage

```r
tt_tracts(state, county, year = 2021)
```

Arguments

- **state**
  FIPS, postal codes, or full names of states.
- **county**
  FIPS codes or full names of counties. Optional.
- **year**
  Integer year. Required. 2000 and 2010-2021 are currently supported.
tt_tribal_block_groups

Value

sf data.frame

Examples

# Wrapped in try due to false positive 304 errors
try(tt_tracts(state = "DE", county = "001"))

---

**tt_tribal_block_groups**

*Download TIGER shapes for Tribal Block Groups*

Description

Download TIGER shapes for Tribal Block Groups

Usage

```
tt_tribal_block_groups(year = 2021)
```

Arguments

- `year` Integer year. Required. 2000 and 2010-2021 are currently supported.

Value

sf data.frame

Examples

# Wrapped in try due to false positive 304 errors
try(tt_tribal_block_groups())

---

**tt_tribal_subdivisions**

*Download TIGER shapes for American Indian Tribal Subdivision National*

Description

Download TIGER shapes for American Indian Tribal Subdivision National

Usage

```
tt_tribal_subdivisions(year = 2021)
```
Arguments

year Integer year. Required. 2000 and 2010-2021 are currently supported.

Value

sf data.frame

Examples

# Wrapped in try due to false positive 304 errors
try(tt_tribal_subdivisions())

Description

Download TIGER shapes for Tribal Tracts

Usage

tt_tribal_tracts(year = 2021)

Arguments

year Integer year. Required. 2000 and 2010-2021 are currently supported.

Value

sf data.frame

Examples

# Wrapped in try due to false positive 304 errors
try(tt_tribal_tracts())
**tt_uac**

*Download TIGER shapes for Urban Area*

### Description

Download TIGER shapes for Urban Area

### Usage

```r
tt_uac(year = 2021)
```

### Arguments

- **year**: Integer year. Required. 2000 and 2010-2021 are currently supported.

### Value

sf data.frame

### Examples

```r
# takes > 5 seconds
# Wrapped in try due to false positive 304 errors
try(tt_uac())
```

**tt_unified_school_districts**

*Download TIGER shapes for Unified School Districts*

### Description

Download TIGER shapes for Unified School Districts

### Usage

```r
tt_unified_school_districts(state, year = 2021)
```

### Arguments

- **state**: FIPS, postal codes, or full names of states.
- **year**: Integer year. Required. 2000 and 2010-2021 are currently supported.

### Value

sf data.frame
Examples

# Wrapped in try due to false positive 304 errors
try(tt_unified_school_districts("DE"))

---

tt_voting_districts  Download TIGER shapes for Voting Districts

Description

Download TIGER shapes for Voting Districts

Usage

tt_voting_districts(state, county, year = 2021)

Arguments

state  FIPS, postal codes, or full names of states.
county  FIPS codes or full names of counties. Optional.
year  Integer year. Required. 2000 and 2010-2021 are currently supported.

Value

sf data.frame

Examples

# Wrapped in try due to false positive 304 errors
try(tt_voting_districts("DE", county = "001"))

---

tt_zcta  Download TIGER shapes for Zip Code Tabulation Areas

Description

Download TIGER shapes for Zip Code Tabulation Areas

Usage

tt_zcta(year = 2021)

Arguments

year  Integer year. Required. 2000 and 2010-2021 are currently supported.
tt_zcta

Value
   sf data.frame

Examples
   # takes > 5 seconds
   # Wrapped in try due to false positive 304 errors
   try(tt_zcta())
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