

Package ‘CatastRo’

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Title Interface to the API 'Sede Electronica Del Catastro'

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Description Access public spatial data available under the 'INSPIRE' directive. Tools for downloading references and addresses of properties, as well as map images.

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<https://github.com/rOpenSpain/CatastRo>

BugReports <https://github.com/rOpenSpain/CatastRo/issues>

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catr_atom_get_address *ATOM INSPIRE: Download all the addresses of a municipality*

Description

Get the spatial data of all the addresses belonging to a single municipality using the INSPIRE ATOM service. Additionally, the function also returns the corresponding street information on the fields with the prefix tfname_*,

Usage

```
catr_atom_get_address(
  munic,
  to = NULL,
  cache = TRUE,
  update_cache = FALSE,
  cache_dir = NULL,
  verbose = FALSE
)
```

Arguments

munic	Municipality to extract, It can be a part of a string or the cadastral code. See catr_atom_search_munic() for getting the cadastral codes.
to	Optional parameter for defining the Territorial Office to which munic belongs. This parameter is a helper for narrowing the search.
cache	A logical whether to do caching. Default is TRUE. See About caching section on catr_set_cache_dir() .
update_cache	A logical whether to update cache. Default is FALSE. When set to TRUE it would force a fresh download of the source file.
cache_dir	A path to a cache directory. On NULL value (the default) the function would store the cached files on the tempdir .
verbose	Logical, displays information. Useful for debugging, default is FALSE.

Value

A [sf](#) object.

References

[API Documentation](#).

[INSPIRE Services for Cadastral Cartography](#).

See Also

INSPIRE API functions: [catr_atom_get_address_db_all\(\)](#), [catr_atom_get_buildings\(\)](#), [catr_atom_get_building](#), [catr_atom_get_parcel](#), [catr_atom_get_parcel_db_all\(\)](#), [catr_wfs_get_address_bbox\(\)](#), [catr_wfs_get_buildings_bbox\(\)](#), [catr_wfs_get_parcel_bbox\(\)](#), [catr_wms_get_layer\(\)](#)

Other INSPIRE ATOM services: [catr_atom_get_address_db_all\(\)](#), [catr_atom_get_buildings\(\)](#), [catr_atom_get_buildings_db_all\(\)](#), [catr_atom_get_parcel\(\)](#), [catr_atom_get_parcel_db_all\(\)](#), [catr_atom_search_munic\(\)](#)

Other addresses: [catr_atom_get_address_db_all\(\)](#), [catr_wfs_get_address_bbox\(\)](#)

Other spatial: [catr_atom_get_buildings\(\)](#), [catr_atom_get_parcel\(\)](#), [catr_wfs_get_address_bbox\(\)](#), [catr_wfs_get_buildings_bbox\(\)](#), [catr_wfs_get_parcel_bbox\(\)](#), [catr_wms_get_layer\(\)](#)

Examples

```
s <- catr_atom_get_address("Melque",
  to = "Segovia"
)

library(ggplot2)

ggplot(s) +
  geom_sf(aes(color = specification)) +
  coord_sf(
    xlim = c(376200, 376850),
    ylim = c(4545000, 4546000)
  ) +
  labs(
    title = "Addresses",
    subtitle = "Melque de Cercos, Segovia"
  )
```

catr_atom_get_address_db_all

ATOM INSPIRE: Reference database for ATOM addresses

Description

Create a database containing the urls provided in the INSPIRE ATOM service of the Spanish Cadastre for extracting Addresses.

- `catr_atom_get_address_db_all()` provides a top-level table including information of all the territorial offices (except Basque Country and Navarre) listing the municipalities included on each office.
- `catr_atom_get_address_db_to()` provides a table for the specified territorial office including information for each of the municipalities of that office.

Usage

```
catr_atom_get_address_db_all(
  cache = TRUE,
  update_cache = FALSE,
  cache_dir = NULL,
  verbose = FALSE
)
```

```
catr_atom_get_address_db_to(
  to,
  cache = TRUE,
  update_cache = FALSE,
```

```

    cache_dir = NULL,
    verbose = FALSE
  )

```

Arguments

cache	A logical whether to do caching. Default is TRUE. See About caching section on catr_set_cache_dir() .
update_cache	A logical whether to update cache. Default is FALSE. When set to TRUE it would force a fresh download of the source file.
cache_dir	A path to a cache directory. On NULL value (the default) the function would store the cached files on the tempdir .
verbose	Logical, displays information. Useful for debugging, default is FALSE.
to	Territorial office. It can be any type of string, the function would perform a search using base::grep() .

Value

A [tibble](#) with the information requested.

- `catr_atom_get_address_db_all()` includes the following fields:
 - `territorial_office`: Territorial office, corresponding to each province of Spain except Basque Country and Navarre.
 - `url`: ATOM url for the corresponding territorial office.
 - `munic`: Name of the municipality.
 - `date`: Reference date of the data. Note that **the information of this service is updated twice a year**.
- `catr_atom_get_address_db_to()` includes the following fields:
 - `munic`: Name of the municipality.
 - `url`: url for downloading information of the corresponding municipality.
 - `date`: Reference date of the data. Note that **the information of this service is updated twice a year**.

Source

<https://www.catastro.hacienda.gob.es/INSPIRE/Addresses/ES.SDGC.AD.atom.xml>

See Also

INSPIRE API functions: [catr_atom_get_address\(\)](#), [catr_atom_get_buildings\(\)](#), [catr_atom_get_buildings_db_all\(\)](#), [catr_atom_get_parcel\(\)](#), [catr_atom_get_parcel_db_all\(\)](#), [catr_wfs_get_address_bbox\(\)](#), [catr_wfs_get_buildings_bbox\(\)](#), [catr_wfs_get_parcel_bbox\(\)](#), [catr_wms_get_layer\(\)](#)

Other INSPIRE ATOM services: [catr_atom_get_address\(\)](#), [catr_atom_get_buildings\(\)](#), [catr_atom_get_buildings_db_all\(\)](#), [catr_atom_get_parcel\(\)](#), [catr_atom_get_parcel_db_all\(\)](#), [catr_atom_search_munic\(\)](#)

Other addresses: [catr_atom_get_address\(\)](#), [catr_wfs_get_address_bbox\(\)](#)

Other databases: [catr_atom_get_buildings_db_all\(\)](#), [catr_atom_get_parcel_db_all\(\)](#), [catr_atom_search_munic\(\)](#), [catr_srs_values](#)

Examples

```
catr_atom_get_address_db_all()
```

```
catr_atom_get_buildings
```

ATOM INSPIRE: Download all the buildings of a municipality

Description

Get the spatial data of all the buildings belonging to a single municipality using the INSPIRE ATOM service.

Usage

```
catr_atom_get_buildings(
    munic,
    to = NULL,
    what = c("building", "buildingpart", "other"),
    cache = TRUE,
    update_cache = FALSE,
    cache_dir = NULL,
    verbose = FALSE
)
```

Arguments

munic	Municipality to extract, It can be a part of a string or the cadastral code. See catr_atom_search_munic() for getting the cadastral codes.
to	Optional parameter for defining the Territorial Office to which munic belongs. This parameter is a helper for narrowing the search.
what	Information to load. It could be: • "building" for buildings. • "buildingpart" for parts of a building. • "other" for others elements, as swimming pools, etc.
cache	A logical whether to do caching. Default is TRUE. See About caching section on catr_set_cache_dir() .
update_cache	A logical whether to update cache. Default is FALSE. When set to TRUE it would force a fresh download of the source file.
cache_dir	A path to a cache directory. On NULL value (the default) the function would store the cached files on the tempdir .
verbose	Logical, displays information. Useful for debugging, default is FALSE.

Description

Create a database containing the urls provided in the INSPIRE ATOM service of the Spanish Cadastre for extracting buildings.

- `catr_atom_get_buildings_db_all()` provides a top-level table including information of all the territorial offices (except Basque Country and Navarre) listing the municipalities included on each office.
- `catr_atom_get_buildings_db_to()` provides a table for the specified territorial office including information for each of the municipalities of that office.

Usage

```
catr_atom_get_buildings_db_all(
  cache = TRUE,
  update_cache = FALSE,
  cache_dir = NULL,
  verbose = FALSE
)

catr_atom_get_buildings_db_to(
  to,
  cache = TRUE,
  update_cache = FALSE,
  cache_dir = NULL,
  verbose = FALSE
)
```

Arguments

cache	A logical whether to do caching. Default is TRUE. See About caching section on catr_set_cache_dir() .
update_cache	A logical whether to update cache. Default is FALSE. When set to TRUE it would force a fresh download of the source file.
cache_dir	A path to a cache directory. On NULL value (the default) the function would store the cached files on the tempdir .
verbose	Logical, displays information. Useful for debugging, default is FALSE.
to	Territorial office. It can be any type of string, the function would perform a search using base::grep() .

Value

A [tibble](#) with the information requested.

- `catr_atom_get_buildings_db_all()` includes the following fields:
 - `territorial_office`: Territorial office, corresponding to each province of Spain except Basque Country and Navarre.
 - `url`: ATOM url for the corresponding territorial office.

- munic: Name of the municipality.
- date: Reference date of the data. Note that **the information of this service is updated twice a year**.
- catr_atom_get_buildings_db_to() includes the following fields:
 - munic: Name of the municipality.
 - url: url for downloading information of the corresponding municipality.
 - date: Reference date of the data. Note that **the information of this service is updated twice a year**.

Source

<https://www.catastro.hacienda.gob.es/INSPIRE/buildings/ES.SDGC.BU.atom.xml>

See Also

INSPIRE API functions: [catr_atom_get_address\(\)](#), [catr_atom_get_address_db_all\(\)](#), [catr_atom_get_buildings\(\)](#), [catr_atom_get_parcel\(\)](#), [catr_atom_get_parcel_db_all\(\)](#), [catr_wfs_get_address_bbox\(\)](#), [catr_wfs_get_buildings_bbox\(\)](#), [catr_wfs_get_parcel_bbox\(\)](#), [catr_wms_get_layer\(\)](#)

Other INSPIRE ATOM services: [catr_atom_get_address\(\)](#), [catr_atom_get_address_db_all\(\)](#), [catr_atom_get_buildings\(\)](#), [catr_atom_get_parcel\(\)](#), [catr_atom_get_parcel_db_all\(\)](#), [catr_atom_search_munic\(\)](#)

Other buildings: [catr_atom_get_buildings\(\)](#), [catr_wfs_get_buildings_bbox\(\)](#)

Other databases: [catr_atom_get_address_db_all\(\)](#), [catr_atom_get_parcel_db_all\(\)](#), [catr_atom_search_munic\(\)](#), [catr_srs_values](#)

Examples

```
catr_atom_get_buildings_db_all()
```

`catr_atom_get_parcel` *ATOM INSPIRE: Download all the cadastral parcels of a municipality*

Description

Get the spatial data of all the cadastral parcels belonging to a single municipality using the INSPIRE ATOM service.

Usage

```
catr_atom_get_parcel(
    munic,
    to = NULL,
    what = "parcel",
    cache = TRUE,
    update_cache = FALSE,
```

```

    cache_dir = NULL,
    verbose = FALSE
  )

```

Arguments

<code>munic</code>	Municipality to extract, It can be a part of a string or the cadastral code. See catr_atom_search_munic() for getting the cadastral codes.
<code>to</code>	Optional parameter for defining the Territorial Office to which <code>munic</code> belongs. This parameter is a helper for narrowing the search.
<code>what</code>	Information to load. It could be "parcel" for cadastral parcels or "zoning" for cadastral zoning.
<code>cache</code>	A logical whether to do caching. Default is TRUE. See About caching section on catr_set_cache_dir() .
<code>update_cache</code>	A logical whether to update cache. Default is FALSE. When set to TRUE it would force a fresh download of the source file.
<code>cache_dir</code>	A path to a cache directory. On NULL value (the default) the function would store the cached files on the tempdir .
<code>verbose</code>	Logical, displays information. Useful for debugging, default is FALSE.

Value

A [sf](#) object.

References

[API Documentation](#).

[INSPIRE Services for Cadastral Cartography](#).

See Also

INSPIRE API functions: [catr_atom_get_address\(\)](#), [catr_atom_get_address_db_all\(\)](#), [catr_atom_get_buildings\(\)](#), [catr_atom_get_buildings_db_all\(\)](#), [catr_atom_get_parcel_db_all\(\)](#), [catr_wfs_get_address_bbox\(\)](#), [catr_wfs_get_buildings_bbox\(\)](#), [catr_wfs_get_parcel_bbox\(\)](#), [catr_wms_get_layer\(\)](#)

Other INSPIRE ATOM services: [catr_atom_get_address\(\)](#), [catr_atom_get_address_db_all\(\)](#), [catr_atom_get_buildings\(\)](#), [catr_atom_get_buildings_db_all\(\)](#), [catr_atom_get_parcel_db_all\(\)](#), [catr_atom_search_munic\(\)](#)

Other parcels: [catr_atom_get_parcel_db_all\(\)](#), [catr_wfs_get_parcel_bbox\(\)](#)

Other spatial: [catr_atom_get_address\(\)](#), [catr_atom_get_buildings\(\)](#), [catr_wfs_get_address_bbox\(\)](#), [catr_wfs_get_buildings_bbox\(\)](#), [catr_wfs_get_parcel_bbox\(\)](#), [catr_wms_get_layer\(\)](#)

Examples

```

s <- catr_atom_get_parcel("Melque",
  to = "Segovia",
  what = "parcel"
)

```

```
library(ggplot2)

ggplot(s) +
  geom_sf() +
  labs(
    title = "Cadastral Zoning",
    subtitle = "Melque de Cercos, Segovia"
  )
```

catr_atom_get_parcel_db_all

ATOM INSPIRE: Reference database for ATOM cadastral parcels

Description

Create a database containing the urls provided in the INSPIRE ATOM service of the Spanish Cadastre for extracting cadastral parcels.

- `catr_atom_get_parcel_db_all()` provides a top-level table including information of all the territorial offices (except Basque Country and Navarre) listing the municipalities included on each office.
- `catr_atom_get_parcel_db_to()` provides a table for the specified territorial office including information for each of the municipalities of that office.

Usage

```
catr_atom_get_parcel_db_all(
  cache = TRUE,
  update_cache = FALSE,
  cache_dir = NULL,
  verbose = FALSE
)
```

```
catr_atom_get_parcel_db_to(
  to,
  cache = TRUE,
  update_cache = FALSE,
  cache_dir = NULL,
  verbose = FALSE
)
```

Arguments

cache	A logical whether to do caching. Default is TRUE. See About caching section on catr_set_cache_dir() .
-------	--

update_cache	A logical whether to update cache. Default is FALSE. When set to TRUE it would force a fresh download of the source file.
cache_dir	A path to a cache directory. On NULL value (the default) the function would store the cached files on the tempdir .
verbose	Logical, displays information. Useful for debugging, default is FALSE.
to	Territorial office. It can be any type of string, the function would perform a search using base::grep() .

Value

A [tibble](#) with the information requested.

- `catr_atom_get_parcel_db_all()` includes the following fields:
 - territorial_office: Territorial office, corresponding to each province of Spain except Basque Country and Navarre.
 - url: ATOM url for the corresponding territorial office.
 - munic: Name of the municipality.
 - date: Reference date of the data. Note that **the information of this service is updated twice a year**.
- `catr_atom_get_parcel_db_to()` includes the following fields:
 - munic: Name of the municipality.
 - url: url for downloading information of the corresponding municipality.
 - date: Reference date of the data. Note that **the information of this service is updated twice a year**.

Source

<https://www.catastro.hacienda.gob.es/INSPIRE/CadastralParcels/ES.SDGC.CP.atom.xml>

See Also

INSPIRE API functions: [catr_atom_get_address\(\)](#), [catr_atom_get_address_db_all\(\)](#), [catr_atom_get_buildings\(\)](#), [catr_atom_get_buildings_db_all\(\)](#), [catr_atom_get_parcel_db_all\(\)](#), [catr_wfs_get_address_bbox\(\)](#), [catr_wfs_get_buildings_bbox\(\)](#), [catr_wfs_get_parcel_db_all\(\)](#), [catr_wms_get_layer\(\)](#)

Other INSPIRE ATOM services: [catr_atom_get_address\(\)](#), [catr_atom_get_address_db_all\(\)](#), [catr_atom_get_buildings\(\)](#), [catr_atom_get_buildings_db_all\(\)](#), [catr_atom_get_parcel_db_all\(\)](#), [catr_atom_search_munic\(\)](#)

Other parcels: [catr_atom_get_parcel_db_all\(\)](#), [catr_wfs_get_parcel_db_all\(\)](#)

Other databases: [catr_atom_get_address_db_all\(\)](#), [catr_atom_get_buildings_db_all\(\)](#), [catr_atom_search_munic\(\)](#), [catr_srs_values](#)

Examples

```
catr_atom_get_parcel_db_all()
```

catr_atom_search_munic

ATOM INSPIRE: Search for municipality codes

Description

Search for a municipality (as a string, part of string or code) and get the corresponding coding as per the Cadastre.

Usage

```
catr_atom_search_munic(
  munic,
  to = NULL,
  cache = TRUE,
  update_cache = FALSE,
  cache_dir = NULL,
  verbose = FALSE
)
```

Arguments

munic	Municipality to extract, It can be a part of a string or the cadastral code.
to	Optional parameter for defining the Territorial Office to which munic belongs. This parameter is a helper for narrowing the search.
cache	A logical whether to do caching. Default is TRUE. See About caching section on catr_set_cache_dir() .
update_cache	A logical whether to update cache. Default is FALSE. When set to TRUE it would force a fresh download of the source file.
cache_dir	A path to a cache directory. On NULL value (the default) the function would store the cached files on the tempdir .
verbose	Logical, displays information. Useful for debugging, default is FALSE.

Value

A [tibble](#).

See Also

Other INSPIRE ATOM services: [catr_atom_get_address\(\)](#), [catr_atom_get_address_db_all\(\)](#), [catr_atom_get_buildings\(\)](#), [catr_atom_get_buildings_db_all\(\)](#), [catr_atom_get_parcel\(\)](#), [catr_atom_get_parcel_db_all\(\)](#)

Other search: [catr_get_code_from_coords\(\)](#), [catr_ovc_get_cod_munic\(\)](#), [catr_ovc_get_cod_provinces\(\)](#)

Other databases: [catr_atom_get_address_db_all\(\)](#), [catr_atom_get_buildings_db_all\(\)](#), [catr_atom_get_parcel_db_all\(\)](#), [catr_srs_values](#)

Examples

```
catr_atom_search_munic("Mad")
```

catr_clear_cache	<i>Clear your Rhrefhttps://CRAN.R-project.org/package=CatastRoCatastRo cache dir</i>
------------------	--

Description

Use this function with caution. This function would clear your cached data and configuration, specifically:

- Deletes the **CatastRo** config directory (`rappdirs::user_config_dir("CatastRo", "R")`).
- Deletes the `cache_dir` directory.
- Deletes the values on stored on `Sys.getenv("CATASTROESP_CACHE_DIR")`.

Usage

```
catr_clear_cache(config = FALSE, cached_data = TRUE, verbose = FALSE)
```

Arguments

<code>config</code>	if TRUE, will delete the configuration folder of CatastRo .
<code>cached_data</code>	If this is set to TRUE, it will delete your <code>cache_dir</code> and all its content.
<code>verbose</code>	Logical, displays information. Useful for debugging, default is FALSE.

Details

This is an overkill function that is intended to reset your status as it you would never have installed and/or used **CatastRo**.

Value

Invisible. This function is called for its side effects.

See Also

Other cache utilities: `catr_set_cache_dir()`

Examples

```
# Don't run this! It would modify your current state
## Not run:
catr_clear_cache(verbose = TRUE)

## End(Not run)

Sys.getenv("CATASTROESP_CACHE_DIR")
```

catr_get_code_from_coords

Get the cadastral municipality code from coordinates

Description

This function takes as an input a pair of coordinates of a [sf](#) object and returns the corresponding municipality code for that coordinates.

See also [mapSpain::esp_get_munic_siane\(\)](#) and [catr_ovc_get_cod_munic\(\)](#).

Usage

```
catr_get_code_from_coords(x, srs, verbose = FALSE, cache_dir = NULL, ...)
```

Arguments

x	It could be: • A pair of coordinates c(x,y). • A sf object. See Details.
srs	SRS/CRS to use on the query. To check the admitted values check catr_srs_values , specifically the wfs_service column. See Details .
verbose	Logical, displays information. Useful for debugging, default is FALSE.
cache_dir	A path to a cache directory. On NULL value (the default) the function would store the cached files on the tempdir .
...	Arguments passed on to mapSpain::esp_get_munic_siane year Release year. See Details for years available.

Details

When x is a numeric vector, make sure that the srs matches the coordinate values.

When x is a [sf](#) object, only the first value would be used. The function would extract the coordinates using `sf::st_centroid(x, of_largest_polygon = TRUE)`.

Value

A [tibble](#) with the format described in [catr_ovc_get_cod_munic\(\)](#).

See Also

[mapSpain::esp_get_munic_siane\(\)](#), [sf::st_centroid\(\)](#).

Other search: [catr_atom_search_munic\(\)](#), [catr_ovc_get_cod_munic\(\)](#), [catr_ovc_get_cod_provinces\(\)](#)

Examples

```
# Use with coords
catr_get_code_from_coords(c(-16.25462, 28.46824), srs = 4326)

# Use with sf
prov <- mapSpain::esp_get_prov("Caceres")
catr_get_code_from_coords(prov)
```

```
catr_ovc_get_cod_munic
```

OVCCallejero: Extract the code of a municipality

Description

Implementation of the OVCCallejero service [ConsultaMunicipioCodigos](#).

Return the names and codes of a municipality. Returns both the codes as per the Cadastre and as per the INE (National Statistics Institute).

Usage

```
catr_ovc_get_cod_munic(cpro, cmun = NULL, cmun_ine = NULL, verbose = FALSE)
```

Arguments

cpro	The code of a province, as provided by catr_ovc_get_cod_provinces() .
cmun	Code of a municipality, as recorded on the Spanish Cadastre.
cmun_ine	Code of a municipality, as recorded on National Statistics Institute. See INE: List of municipalities
verbose	Logical, displays information. Useful for debugging, default is FALSE.

Details

Parameter cpro is mandatory. Either cmun or cmun_ine should be provided.

On a successful query, the function returns a [tibble](#) with one row including the following columns:

- munic: Name of the municipality as per the Cadastre.
- catr_to: Cadastral territorial office code.
- catr_munic: Municipality code as recorded on the Cadastre.
- catrcode: Full Cadastral code for the municipality.
- cpro: Province code as per the INE.
- catr_munic: Municipality code as per the INE.
- catrcode: Full INE code for the municipality.
- Rest of fields: Check the API Docs.

Value

A [tibble](#). See **Details**

References

[ConsultaMunicipioCodigos](#).

See Also

[mapSpain::esp_get_munic\(\)](#) to get shapes of municipalities, including the INE code.

OVCCoordenadas API: [catr_ovc_get_cod_provinces\(\)](#)

Other search: [catr_atom_search_munic\(\)](#), [catr_get_code_from_coords\(\)](#), [catr_ovc_get_cod_provinces\(\)](#)

Examples

```
# Get municipality by cadastral code
ab <- catr_ovc_get_cod_munic(2, 900)

ab

# Same query using the INE code

ab2 <- catr_ovc_get_cod_munic(2, cmun_ine = 3)

ab2
```

catr_ovc_get_cod_provinces

OVCCallejero: Extract a list of provinces with their codes

Description

Implementation of the OVCCallejero service [ConsultaProvincia](#).

Return a list of the provinces included on the Spanish Cadastre.

Usage

```
catr_ovc_get_cod_provinces(verbose = FALSE)
```

Arguments

verbose Logical, displays information. Useful for debugging, default is FALSE.

Value

A [tibble](#).

References

[ConsultaProvincia](#).

See Also

OVCCoordenadas API: [catr_ovc_get_cod_munic\(\)](#)

Other search: [catr_atom_search_munic\(\)](#), [catr_get_code_from_coords\(\)](#), [catr_ovc_get_cod_munic\(\)](#)

Examples

```
catr_ovc_get_cod_provinces()
```

catr_ovc_get_cpmrc	<i>OVCCoordenadas: Geocode a cadastral reference</i>
--------------------	--

Description

Implementation of the OVCCoordenadas service [Consulta CPMRC](#).

Return the coordinates for a specific cadastral reference.

Usage

```
catr_ovc_get_cpmrc(
  rc,
  srs = 4326,
  province = NULL,
  municipality = NULL,
  verbose = FALSE
)
```

Arguments

rc	The cadastral reference to be geocoded.
srs	SRS/CRS to use on the query. To check the admitted values check catr_srs_values , specifically the ovc_service column.
province, municipality	Optional, used for narrowing the search.
verbose	Logical, displays information. Useful for debugging, default is FALSE.

Details

When the API does not provide any result, the function returns a [tibble](#) with the input parameters only.

On a successful query, the function returns a [tibble](#) with one row by cadastral reference, including the following columns:

- xcoord, ycoord: X and Y coordinates in the specified SRS.
- refcat: Cadastral Reference.
- address: Address as it is recorded on the Cadastre.
- Rest of fields: Check the API Docs.

Value

A [tibble](#). See **Details**

References

[Consulta CPMRC.](#)

See Also

[catr_srs_values](#), `vignette("ovcservice", package = "Catastro")`

OVCCoordenadas API: [catr_ovc_get_rccoor\(\)](#), [catr_ovc_get_rccoor_distancia\(\)](#), [catr_srs_values](#)

Other cadastral references: [catr_ovc_get_rccoor\(\)](#), [catr_ovc_get_rccoor_distancia\(\)](#)

Examples

```
# using all the arguments
catr_ovc_get_cpmrc("13077A01800039",
  4230,
  province = "CIUDAD REAL",
  municipality = "SANTA CRUZ DE MUDELA"
)

# only the cadastral reference
catr_ovc_get_cpmrc("9872023VH5797S")
```

catr_ovc_get_rccoor *OVCCoordenadas: Reverse geocode a cadastral reference*

Description

Implementation of the OVCCoordenadas service [Consulta RCCOOR](#).

Return the cadastral reference found of a set of specific coordinates.

Usage

```
catr_ovc_get_rccoor(lat, lon, srs = 4326, verbose = FALSE)
```

Arguments

lat	Latitude to use on the query. It should be specified in the same in the CRS/SRS specified by srs.
lon	Longitude to use on the query. It should be specified in the same in the CRS/SRS specified by srs.
srs	SRS/CRS to use on the query. To check the admitted values check catr_srs_values , specifically the ovc_service column.
verbose	Logical, displays information. Useful for debugging, default is FALSE.

Details

When the API does not provide any result, the function returns a [tibble](#) with the input parameters only.

On a successful query, the function returns a [tibble](#) with one row by cadastral reference, including the following columns:

- geo.xcen, geo.ycen, geo.srs: Input parameters of the query.
- refcat: Cadastral Reference.
- address: Address as it is recorded on the Cadastre.
- Rest of fields: Check the API Docs.

Value

A [tibble](#). See **Details**

References

[Consulta RCCOOR](#).

See Also

[catr_srs_values](#), `vignette("ovcservice", package = "Catastro")`

OVCCoordenadas API: [catr_ovc_get_cpmrc\(\)](#), [catr_ovc_get_rccoor_distancia\(\)](#), [catr_srs_values](#)

Other cadastral references: [catr_ovc_get_cpmrc\(\)](#), [catr_ovc_get_rccoor_distancia\(\)](#)

Examples

```
catr_ovc_get_rccoor(
  lat = 38.6196566583596,
  lon = -3.45624183836806,
  srs = 4326
)
```

catr_ovc_get_rccoor_distancia

OVCCoordenadas: Reverse geocode cadastral references on a region

Description

Implementation of the OVCCoordenadas service [Consulta RCCOOR Distancia](#).

Return the cadastral reference found on a set of coordinates. If no cadastral references are found, the API returns a list of the cadastral references found on an area of 50 square meters around the requested coordinates.

Usage

```
catr_ovc_get_rccoor_distancia(lat, lon, srs = 4326, verbose = FALSE)
```

Arguments

lat	Latitude to use on the query. It should be specified in the same in the CRS/SRS specified by srs.
lon	Longitude to use on the query. It should be specified in the same in the CRS/SRS specified by srs.
srs	SRS/CRS to use on the query. To check the admitted values check catr_srs_values , specifically the ovc_service column.
verbose	Logical, displays information. Useful for debugging, default is FALSE.

Details

When the API does not provide any result, the function returns a [tibble](#) with the input parameters only.

On a successful query, the function returns a [tibble](#) with one row by cadastral reference, including the following columns:

- geo.xcen, geo.ycen, geo.srs: Input parameters of the query.
- refcat: Cadastral reference.
- address: Address as it is recorded on the Cadastre.
- cmun_ine: Municipality code as registered on the INE (National Statistics Institute).
- Rest of fields: Check the API Docs.

Value

A [tibble](#). See **Details**

References

[Consulta RCCOOR Distancia.](#)

See Also

[catr_srs_values](#), `vignette("ovcservice", package = "CatastRo")`

OVCCoordenadas API: [catr_ovc_get_cpmrc\(\)](#), [catr_ovc_get_rccoor\(\)](#), [catr_srs_values](#)

Other cadastral references: [catr_ovc_get_cpmrc\(\)](#), [catr_ovc_get_rccoor\(\)](#)

Examples

```
catr_ovc_get_rccoor_distancia(
  lat = 40.963200,
  lon = -5.671420,
  srs = 4326
)
```

catr_set_cache_dir	<i>Set your R hrefhttps://CRAN.R-project.org/package=CatastRo CatastRo cache dir</i>
--------------------	--

Description

[catr_set_cache_dir\(\)](#) will store your cache_dir path on your local machine and would load it for future sessions.

Alternatively, you can store the cache_dir manually with the following options:

- Run `Sys.setenv(CATASTROESP_CACHE_DIR = "cache_dir")`. You would need to run this command on each session (Similar to `install = FALSE`).
- Write this line on your `.Renv` file: `CATASTROESP_CACHE_DIR = "value_for_cache_dir"` (same behavior than `install = TRUE`). This would store your cache_dir permanently.

[catr_detect_cache_dir\(\)](#) detects and returns the path to your current cache_dir.

Usage

```

catr_set_cache_dir(
    cache_dir = NULL,
    overwrite = FALSE,
    install = FALSE,
    verbose = TRUE
)

catr_detect_cache_dir(...)

```

Arguments

cache_dir	A path to a cache directory. On NULL value (the default) the function would store the cached files on the tempdir .
overwrite	If this is set to TRUE, it will overwrite an existing CATASTROESP_CACHE_DIR that you already have in local machine.
install	if TRUE, will install the key in your local machine for use in future sessions. Defaults to FALSE. If cache_dir is FALSE this parameter is set to FALSE automatically.
verbose	Logical, displays information. Useful for debugging, default is FALSE.
...	Ignored

Value

[catr_set_cache_dir\(\)](#) is called for its side effects, and returns an (invisible) character with the path to your cache_dir.

[catr_detect_cache_dir\(\)](#) returns the path to the cache_dir used in this session

About caching

Sometimes cached files may be corrupt. On that case, try re-downloading the data setting `update_cache = TRUE`.

If you experience any problem on download, try to download the corresponding file by any other method and save it on your cache_dir. Use the option `verbose = TRUE` for debugging the API query.

See Also

[rappdirs::user_config_dir\(\)](#)

Other cache utilities: [catr_clear_cache\(\)](#)

Examples

```

# Don't run this! It would modify your current state
## Not run:
catr_set_cache_dir(verbose = TRUE)

```

```
## End(Not run)

catr_detect_cache_dir()
```

catr_srs_values	Reference	SRS	codes	for	Rhref https://CRAN.R-project.org/package=CatastroAPIs
-----------------	-----------	-----	-------	-----	---

Description

A [tibble](#) including the valid SRS (also known as CRS) values that may be used on each API service. The values are provided as [EPSG codes](#).

Format

- A [tibble](#) with 16 rows and columns:
- SRS** Spatial Reference System (CRS) value, identified by the corresponding [EPSG](#) code.
- Description** Description of the SRS/EPSG code.
- ovc_service** Logical. Is this code valid on OVC services?
- wfs_service** Logical. Is this code valid on INSPIRE WFS services?

Details

Table: Content of [catr_srs_values](#)

SRS	Description	ovc_service	wfs_service
3785	Web Mercator	FALSE	TRUE
3857	Web Mercator	FALSE	TRUE
4230	Geográficas en ED 50	TRUE	FALSE
4258	Geográficas en ETRS89	TRUE	TRUE
4326	Geográficas en WGS 80	TRUE	TRUE
23029	UTM huso 29N en ED50	TRUE	FALSE
23030	UTM huso 30N en ED50	TRUE	FALSE
23031	UTM huso 31N en ED50	TRUE	FALSE
25829	UTM huso 29N en ETRS89	TRUE	TRUE
25830	UTM huso 30N en ETRS89	TRUE	TRUE
25831	UTM huso 31N en ETRS89	TRUE	TRUE
32627	UTM huso 27N en WGS 84	TRUE	FALSE
32628	UTM huso 28N en WGS 84	TRUE	FALSE
32629	UTM huso 29N en WGS 84	TRUE	FALSE
32630	UTM huso 30N en WGS 84	TRUE	FALSE
32631	UTM huso 31N en WGS 84	TRUE	FALSE

References

- [OVCCoordenadas](#).
- [INSPIRE WFS Service](#).

See Also

`sf::st_crs()`.

Other databases: `catr_atom_get_address_db_all()`, `catr_atom_get_buildings_db_all()`, `catr_atom_get_parcels_db_all()`, `catr_atom_search_munic()`

Other INSPIRE WFS services: `catr_wfs_get_address_bbox()`, `catr_wfs_get_buildings_bbox()`, `catr_wfs_get_parcels_bbox()`

OVCCoordenadas API: `catr_ovc_get_cpmrc()`, `catr_ovc_get_rccoor()`, `catr_ovc_get_rccoor_distancia()`

Examples

```
data("catr_srs_values")

# OVC valid codes
library(dplyr)

catr_srs_values %>% filter(ovc_service == TRUE)

# WFS valid codes

catr_srs_values %>% filter(wfs_service == TRUE)

# Use with sf::st_crs()

catr_srs_values %>%
  filter(wfs_service == TRUE & ovc_service == TRUE) %>%
  print() %>%
  # First value
  slice_head(n = 1) %>%
  pull(SRS) %>%
  # As crs
  sf::st_crs(.)
```

`catr_wfs_get_address_bbox`

WFS INSPIRE: Download addresses

Description

Get the spatial data of addresses The WFS Service allows to perform several types of queries:

- By bounding box: Implemented on `catr_wfs_get_address_bbox()`. Extract objects included on the bounding box provided. See **Details**.

- By street code: Implemented on `catr_wfs_get_address_codvia()`. Extract objects of specific addresses.
- By cadastral reference: Implemented on `catr_wfs_get_address_rc()`. Extract objects of specific cadastral references
- By postal codes: Implemented on `catr_wfs_get_address_postalcode()`. Extract objects of specific cadastral references

Usage

```
catr_wfs_get_address_bbox(x, srs, verbose = FALSE)

catr_wfs_get_address_codvia(codvia, del, mun, srs = NULL, verbose = FALSE)

catr_wfs_get_address_rc(rc, srs = NULL, verbose = FALSE)

catr_wfs_get_address_postalcode(postalcode, srs = NULL, verbose = FALSE)
```

Arguments

x	See Details . It could be: • A numeric vector of length 4 with the coordinates that defines the bounding box: <code>c(xmin, ymin, xmax, ymax)</code> • A <code>sf/sfc</code> object, as provided by the <code>sf</code> package.
srs	SRS/CRS to use on the query. To check the admitted values check <code>catr_srs_values</code> , specifically the <code>wfs_service</code> column. See Details .
verbose	Logical, displays information. Useful for debugging, default is FALSE.
codvia	Cadastral street code.
del	Cadastral office code.
mun	Cadastral municipality code.
rc	The cadastral reference to be extracted.
postalcode	Postal code.

Details

When `x` is a numeric vector, make sure that the `srs` matches the coordinate values. Additionally, when the `srs` correspond to a geographic reference system (4326, 4258), the function queries the bounding box on **EPSG:3857** - Web Mercator, to overcome a potential bug on the API side.

When `x` is a `sf` object, the value `srs` is ignored. In this case, the bounding box of the `sf` object would be used for the query (see `sf::st_bbox()`). The query is performed using **EPSG:3857** (Web Mercator). The result is provided always in the SRS of the `sf` object provided as input.

Value

A `sf` object.

API Limits

The API service is limited to a bounding box of 4km² and a maximum of 5.000 elements.

References

[API Documentation.](#)

[INSPIRE Services for Cadastral Cartography.](#)

See Also

[sf::st_bbox\(\)](#)

INSPIRE API functions: [catr_atom_get_address\(\)](#), [catr_atom_get_address_db_all\(\)](#), [catr_atom_get_buildings\(\)](#), [catr_atom_get_buildings_db_all\(\)](#), [catr_atom_get_parcel\(\)](#), [catr_atom_get_parcel_db_all\(\)](#), [catr_wfs_get_buildings_bbox\(\)](#), [catr_wfs_get_parcel_bbox\(\)](#), [catr_wms_get_layer\(\)](#)

Other INSPIRE WFS services: [catr_srs_values](#), [catr_wfs_get_buildings_bbox\(\)](#), [catr_wfs_get_parcel_bbox\(\)](#)

Other addresses: [catr_atom_get_address\(\)](#), [catr_atom_get_address_db_all\(\)](#)

Other spatial: [catr_atom_get_address\(\)](#), [catr_atom_get_buildings\(\)](#), [catr_atom_get_parcel\(\)](#), [catr_wfs_get_buildings_bbox\(\)](#), [catr_wfs_get_parcel_bbox\(\)](#), [catr_wms_get_layer\(\)](#)

Examples

```
ad <- catr_wfs_get_address_bbox(
  c(
    233673, 4015968, 233761, 4016008
  ),
  srs = 25830
)
```

```
library(ggplot2)
```

```
ggplot(ad) +
  geom_sf()
```

catr_wfs_get_buildings_bbox

WFS INSPIRE: Download buildings

Description

Get the spatial data of buildings. The WFS Service allows to perform two types of queries:

- By bounding box: Implemented on [catr_wfs_get_buildings_bbox\(\)](#). Extract objects included on the bounding box provided. See **Details**.
- By cadastral reference: Implemented on [catr_wfs_get_buildings_rc\(\)](#). Extract objects of specific cadastral references.

Usage

```
catr_wfs_get_buildings_bbox(x, what = "building", srs, verbose = FALSE)
```

```
catr_wfs_get_buildings_rc(rc, what = "building", srs = NULL, verbose = FALSE)
```

Arguments

x	See Details . It could be: • A numeric vector of length 4 with the coordinates that defines the bounding box: c(xmin, ymin, xmax, ymax) • A sf/sfc object, as provided by the sf package.
what	Information to load. It could be: • "building" for buildings. • "buildingpart" for parts of a building. • "other" for others elements, as swimming pools, etc.
srs	SRS/CRS to use on the query. To check the admitted values check catr_srs_values , specifically the wfs_service column. See Details .
verbose	Logical, displays information. Useful for debugging, default is FALSE.
rc	The cadastral reference to be extracted.

Details

When x is a numeric vector, make sure that the srs matches the coordinate values. Additionally, when the srs correspond to a geographic reference system (4326, 4258), the function queries the bounding box on [EPSG:3857](#) - Web Mercator, to overcome a potential bug on the API side. The result is provided always in the SRS provided in srs.

When x is a **sf** object, the value srs is ignored. The query is performed using [EPSG:3857](#) (Web Mercator) and the spatial object is projected back to the SRS of the initial object.

Value

A **sf** object.

API Limits

The API service is limited to a bounding box of 4km2 and a maximum of 5.000 elements.

References

[API Documentation](#).

[INSPIRE Services for Cadastral Cartography](#).

See Also

`sf::st_bbox()`

INSPIRE API functions: `catr_atom_get_address()`, `catr_atom_get_address_db_all()`, `catr_atom_get_buildings()`, `catr_atom_get_buildings_db_all()`, `catr_atom_get_parcel_bbox()`, `catr_atom_get_parcel_db_all()`, `catr_wfs_get_address_bbox()`, `catr_wfs_get_parcel_bbox()`, `catr_wms_get_layer()`

Other INSPIRE WFS services: `catr_srs_values`, `catr_wfs_get_address_bbox()`, `catr_wfs_get_parcel_bbox()`

Other buildings: `catr_atom_get_buildings()`, `catr_atom_get_buildings_db_all()`

Other spatial: `catr_atom_get_address()`, `catr_atom_get_buildings()`, `catr_atom_get_parcel_bbox()`, `catr_wfs_get_address_bbox()`, `catr_wfs_get_parcel_bbox()`, `catr_wms_get_layer()`

Examples

```
# Using bbox
building <- catr_wfs_get_buildings_bbox(
  c(
    376550,
    4545424,
    376600,
    4545474
  ),
  srs = 25830
)
library(ggplot2)
ggplot(building) +
  geom_sf() +
  labs(title = "Search using bbox")

# Using rc
rc <- catr_wfs_get_buildings_rc("6656601UL7465N")
library(ggplot2)
ggplot(rc) +
  geom_sf() +
  labs(title = "Search using rc")
```

`catr_wfs_get_parcel_bbox`

WFS INSPIRE: Download cadastral parcels

Description

Get the spatial data of cadastral parcels and zones. The WFS Service allows to perform several types of queries:

- By bounding box: Implemented on `catr_wfs_get_parcel_bbox()`. Extract objects included on the bounding box provided. See **Details**.

- By zoning: Implemented on `catr_wfs_get_parcel_zoning()`. Extract objects of a specific cadastral zone.
- By cadastral parcel: Implemented on `catr_wfs_get_parcel_parcel()`. Extract cadastral parcels of a specific cadastral reference.
- Neighbor cadastral parcels: Implemented on `catr_wfs_get_parcel_neigh_parcel()`. Extract neighbor cadastral parcels of a specific cadastral reference.
- Cadastral parcels by zoning: Implemented on `catr_wfs_get_parcel_parcel_zoning()`. Extract cadastral parcels of a specific cadastral zone.

Usage

```
catr_wfs_get_parcel_bbox(x, what = "parcel", srs, verbose = FALSE)
```

```
catr_wfs_get_parcel_zoning(cod_zona, srs = NULL, verbose = FALSE)
```

```
catr_wfs_get_parcel_parcel(rc, srs = NULL, verbose = FALSE)
```

```
catr_wfs_get_parcel_neigh_parcel(rc, srs = NULL, verbose = FALSE)
```

```
catr_wfs_get_parcel_parcel_zoning(cod_zona, srs = NULL, verbose = FALSE)
```

Arguments

x	See Details . It could be: • A numeric vector of length 4 with the coordinates that defines the bounding box: <code>c(xmin, ymin, xmax, ymax)</code> • A <code>sf/sfc</code> object, as provided by the sf package.
what	Information to load. It could be "parcel" for cadastral parcels or "zoning" for cadastral zoning.
srs	SRS/CRS to use on the query. To check the admitted values check catr_srs_values , specifically the <code>wfs_service</code> column. See Details .
verbose	Logical, displays information. Useful for debugging, default is FALSE.
cod_zona	Cadastral zone code.
rc	The cadastral reference to be extracted.

Details

When `x` is a numeric vector, make sure that the `srs` matches the coordinate values. Additionally, when the `srs` correspond to a geographic reference system (4326, 4258), the function queries the bounding box on [EPSG:3857](#) - Web Mercator, to overcome a potential bug on the API side. The result is provided always in the SRS provided in `srs`.

When `x` is a `sf` object, the value `srs` is ignored. The query is performed using [EPSG:3857](#) (Web Mercator) and the spatial object is projected back to the SRS of the initial object.

Value

A [sf](#) object.

API Limits

The API service is limited to the following constraints:

- "parcel": Bounding box of 1km2 and a maximum of 500. elements.
- "zoning": Bounding box of 25km2 and a maximum of 500 elements.

References

[API Documentation.](#)

[INSPIRE Services for Cadastral Cartography.](#)

See Also

[sf::st_bbox\(\)](#)

INSPIRE API functions: [catr_atom_get_address\(\)](#), [catr_atom_get_address_db_all\(\)](#), [catr_atom_get_buildings\(\)](#), [catr_atom_get_buildings_db_all\(\)](#), [catr_atom_get_parcel_bboxes\(\)](#), [catr_atom_get_parcel_bboxes_db_all\(\)](#), [catr_wfs_get_address_bbox\(\)](#), [catr_wfs_get_buildings_bbox\(\)](#), [catr_wms_get_layer\(\)](#)

Other INSPIRE WFS services: [catr_srs_values](#), [catr_wfs_get_address_bbox\(\)](#), [catr_wfs_get_buildings_bbox\(\)](#)

Other parcels: [catr_atom_get_parcel_bboxes\(\)](#), [catr_atom_get_parcel_bboxes_db_all\(\)](#)

Other spatial: [catr_atom_get_address\(\)](#), [catr_atom_get_buildings\(\)](#), [catr_atom_get_parcel_bboxes\(\)](#), [catr_wfs_get_address_bbox\(\)](#), [catr_wfs_get_buildings_bbox\(\)](#), [catr_wms_get_layer\(\)](#)

Examples

```
cp <- catr_wfs_get_parcel_bbox(
  c(
    233673, 4015968, 233761, 4016008
  ),
  srs = 25830
)

library(ggplot2)

ggplot(cp) +
  geom_sf()
```

catr_wms_get_layer	<i>WMS INSPIRE: Download map images</i>
--------------------	---

Description

Get geotagged images from the Spanish Cadastre. This function is a wrapper of [mapSpain::esp_getTiles\(\)](#).

Usage

```
catr_wms_get_layer(
  x,
  srs,
  what = c("building", "buildingpart", "parcel", "zoning", "address", "admboundary",
    "admunit"),
  styles = "default",
  update_cache = FALSE,
  cache_dir = NULL,
  verbose = FALSE,
  crop = FALSE,
  options = NULL,
  ...
)
```

Arguments

x	See Details . It could be: - A numeric vector of length 4 with the coordinates that defines the bounding box: <code>c(xmin, ymin, xmax, ymax)</code> - A <code>sf/sfc</code> object, as provided by the sf package.
srs	SRS/CRS to use on the query. To check the admitted values check catr_srs_values , specifically the <code>wfs_service</code> column. See Details .
what	Layer to be extracted, see Details .
styles	Style of the WMS layer. See Details .
update_cache	A logical whether to update cache. Default is FALSE. When set to TRUE it would force a fresh download of the source file.
cache_dir	A path to a cache directory. On NULL value (the default) the function would store the cached files on the tempdir .
verbose	Logical, displays information. Useful for debugging, default is FALSE.
crop	TRUE if results should be cropped to the specified x extent, FALSE otherwise. If x is an sf object with one POINT, crop is set to FALSE.
options	A named list containing additional options to pass to the query.
...	Arguments passed on to mapSpain::esp_getTiles
res	Resolution (in pixels) of the final tile. Only valid for WMS.

bbox_expand A numeric value that indicates the expansion percentage of the bounding box of x.

transparent Logical. Provides transparent background, if supported. Depends on the selected provider on type.

mask TRUE if the result should be masked to x.

Details

When x is a numeric vector, make sure that the srs matches the coordinate values. When x is a [sf](#) object, the value srs is ignored.

The query is performed using [EPSG:3857](#) (Web Mercator) and the tile is projected back to the SRS of x. In case that the tile looks deformed, try either providing x or specify the SRS of the requested tile via the srs parameter, that ideally would need to match the SRS of x. See **Examples**.

Value

A [SpatRaster](#) is returned, with 3 (RGB) or 4 (RGBA) layers, see [terra::RGB\(\)](#).

Layers

The parameter what defines the layer to be extracted. The equivalence with the [API Docs](#) equivalence is:

- "parcel": CP.CadastralParcel
- "zoning": CP.CadastralZoning
- "building": BU.Building
- "buildingpart": BU.BuildingPart
- "address": AD.Address
- "admboundary": AU.AdministrativeBoundary
- "admunit": AU.AdministrativeUnit

Styles

The WMS service provide different styles on each layer (what parameter). Some of the styles available are:

- "parcel": styles: "BoundariesOnly", "ReferencePointOnly", "ELFCadastre".
- "zoning": styles: "BoundariesOnly", "ELFCadastre".
- "building", "buildingpart": "ELFCadastre"
- "address": "Number.ELFCadastre"
- "admboundary", "admunit": "ELFCadastre"

Check the [API Docs](#) for more information.

References

[API Documentation](#).

[INSPIRE Services for Cadastral Cartography](#).

See Also

`mapSpain::esp_getTiles()` and `terra::RGB()`. For plotting see `terra::plotRGB()` and `tidyterra::geom_spatraster`.
 INSPIRE API functions: `catr_atom_get_address()`, `catr_atom_get_address_db_all()`, `catr_atom_get_buildings()`,
`catr_atom_get_buildings_db_all()`, `catr_atom_get_parcel()`, `catr_atom_get_parcel_db_all()`,
`catr_wfs_get_address_bbox()`, `catr_wfs_get_buildings_bbox()`, `catr_wfs_get_parcel_bbox()`
 Other spatial: `catr_atom_get_address()`, `catr_atom_get_buildings()`, `catr_atom_get_parcel()`,
`catr_wfs_get_address_bbox()`, `catr_wfs_get_buildings_bbox()`, `catr_wfs_get_parcel_bbox()`

Examples

```
# With a bbox

pict <- catr_wms_get_layer(
  c(222500, 4019500, 223700, 4020700),
  srs = 25830,
  what = "parcel"
)

library(mapSpain)
library(ggplot2)
library(tidyterra)

ggplot() +
  geom_spatraster_rgb(data = pict)

# With a spatial object

parcels <- catr_wfs_get_parcel_neigh_parcel("3662303TF3136B", srs = 25830)

# Use styles

parcels_img <- catr_wms_get_layer(parcels,
  what = "buildingpart",
  srs = 25830, # As parcels object
  bbox_expand = 0.3,
  styles = "ELFCadastre"
)

ggplot() +
  geom_sf(data = parcels, fill = "blue", alpha = 0.5) +
  geom_spatraster_rgb(data = parcels_img)
```

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