

Package: rwfs (via r-universe)

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Type Package

Title R Clients for Open Geospatial Consortium's Web Feature Services

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Description R clients for Open Geospatial Consortium's (OGC) Web Feature Services (WFS).

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URL <https://github.com/ropengov/rwfs>, <https://ropengov.github.io/rwfs/>

BugReports <https://github.com/rOpenGov/rwfs/issues>

Depends R (>= 3.0.1)

Imports digest, R6, raster, sf, sp

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asISO8601	Returns date time string in ISO8601 format
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Description

Converts an object which can be converted to a POSIXlt object to a ISO8601 date time string.

Usage

asISO8601(dt)

Arguments

dt Date time object which can be converted to a POSIXlt object.

Value

Character string in ISO8601 format.

Author(s)

Jussi Jousimo <jvj@iki.fi>

Examples

asISO8601("2014-01-01")

GMLFile*A class for providing a file name reference to a GML document*

Description

A class for providing a file name reference to a GML document.

Super class

`rwfs::WFSRequest` -> GMLFile

Methods**Public methods:**

- `GMLFile$new()`
- `GMLFile$getDataSource()`
- `GMLFile$clone()`

Method new():

Usage:

`GMLFile$new(srcFile)`

Method getDataSource():

Usage:

`GMLFile$getDataSource()`

Method clone(): The objects of this class are cloneable with this method.

Usage:

`GMLFile$clone(deep = FALSE)`

Arguments:

`deep` Whether to make a deep clone.

Author(s)

Jussi Jousimo <jvj@iki.fi>

rwfs

*WFS client for R***Description**

This R package provides a client to access Web Feature Services (WFS) (<http://www.opengeospatial.org/standards/wfs>).

Details

The client relies on the GDAL (<http://www.gdal.org/>) library and the **rgdal** (<https://cran.r-project.org/package=rgdal>) package, which should be installed first.

See examples in the **fmi** (<http://www.github.com/rOpenGov/fmi>) and the **gisfin** packages (<http://www.github.com/rOpenGov/gisfin>) how to inherit the abstract R6 classes (<https://cran.r-project.org/package=R6>) provided by the package.

Author(s)

Jussi Jousimo <jvj@iki.fi>

WFS Caching Client

*Downloads response from a WFS and parses the intermediate file***Description**

Dispatches a WFS request, saves the response to a file and parses the file. The data can be converted using ogr2ogr of RGDAL. Provides a caching mechanism for subsequent queries on the same data.

Super class

```
rwfs::WFSCClient -> WFS Caching Client
```

Methods**Public methods:**

- `WFS Caching Client$saveGMLFile()`
- `WFS Caching Client$loadGMLFile()`
- `WFS Caching Client$listLayers()`
- `WFS Caching Client$getLayer()`
- `WFS Caching Client$clone()`

Method `saveGMLFile()`:

Usage:

```
WFS Caching Client$saveGMLFile(destFile)
```

Method loadGMLFile():

Usage:

WFSCachingClient\$loadGMLFile(fromFile)

Method listLayers():

Usage:

WFSCachingClient\$listLayers()

Method getLayer():

Usage:

WFSCachingClient\$getLayer(layer, ...)

Method clone(): The objects of this class are cloneable with this method.

Usage:

WFSCachingClient\$clone(deep = FALSE)

Arguments:

deep Whether to make a deep clone.

Author(s)

Jussi Jousimo <jvj@iki.fi>

See Also

[WFSRequest](#), [WFSStreamingClient](#)

WFSCachingRequest	<i>An abstract class for building a URL reference to a WFS with a caching</i>
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Description

The abstract method getUrl must be overloaded in a subclass to provide a request URL to a WFS service.

Super classes

[rwfs::WFSRequest](#) -> [rwfs::WFSStreamingRequest](#) -> WFSCachingRequest

Methods

Public methods:

- [WFSCachingRequest\\$getDataSource\(\)](#)
- [WFSCachingRequest\\$clone\(\)](#)

Method `getDataSource()`:

Usage:

```
WFSCachingRequest$getDataSource()
```

Method `clone()`: The objects of this class are cloneable with this method.

Usage:

```
WFSCachingRequest$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

Author(s)

Jussi Jousimo <jvj@iki.fi>

WFSClient

Class representing a WFS client

Description

An abstract class to represent OGC's WFS client in R. Other client classes in this package inherit this this class.

Format

[R6Class](#) object.

Methods

`new(request)` This method is used to create object of this class with `request` as the request object containing WFS connection information and methods. NOTE: as this is abstract class, you shouldn't be creating instances of it.

`setRequest(request)` Set client's request object to `request`, which must inherit from [WFSRequest](#).

`listLayers()` Not implemented in this abstract class, but it classes inheriting this class.

`getLayer` Not implemented in this abstract class, but it classes inheriting this class.

`getRaster` Get a raster layer from WFS

Public fields

`test`

Active bindings

test

Methods**Public methods:**

- [WFSCClient\\$new\(\)](#)
- [WFSCClient\\$setRequest\(\)](#)
- [WFSCClient\\$listLayers\(\)](#)
- [WFSCClient\\$getLayer\(\)](#)
- [WFSCClient\\$getRaster\(\)](#)
- [WFSCClient\\$clone\(\)](#)

Method new():

Usage:

WFSCClient\$new(request)

Method setRequest():

Usage:

WFSCClient\$setRequest(request)

Method listLayers():

Usage:

WFSCClient\$listLayers()

Method getLayer():

Usage:

WFSCClient\$getLayer(layer, ...)

Method getRaster():

Usage:

WFSCClient\$getRaster(parameters)

Method clone(): The objects of this class are cloneable with this method.

Usage:

WFSCClient\$clone(deep = FALSE)

Arguments:

deep Whether to make a deep clone.

Author(s)

Jussi Jousimo <jvj@iki.fi>, Joona Lehtomaki <joona.lehtomaki@gmail.com>

See Also

[WFSSStreamingClient](#), [WFSCachingClient](#), [WFSRequest](#)

WFSRequest*An abstract class for referencing a WFS or a GML document*

Description

This class should be inherited and the abstract method `getDataSource` overloaded in a subclass to provide a reference.

Methods

Public methods:

- [WFSRequest\\$getDataSource\(\)](#)
- [WFSRequest\\$print\(\)](#)
- [WFSRequest\\$clone\(\)](#)

Method `getDataSource()`:

Usage:

```
WFSRequest$getDataSource()
```

Method `print()`:

Usage:

```
WFSRequest$print(...)
```

Method `clone()`: The objects of this class are cloneable with this method.

Usage:

```
WFSRequest$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

Author(s)

Jussi Jousimo <jvj@iki.fi>

See Also

[WFSClient](#), [GMLFile](#)

WFSSstreamingClient	<i>Streams response from a WFS</i>
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Description

Dispatches a WFS request and parses response from the stream directly.

Super class

`rwfs::WFSCClient -> WFSSstreamClient`

Methods

Public methods:

- `WFSSstreamingClient$listLayers()`
- `WFSSstreamingClient$getLayer()`
- `WFSSstreamingClient$clone()`

Method `listLayers()`:

Usage:

`WFSSstreamingClient$listLayers()`

Method `getLayer()`:

Usage:

`WFSSstreamingClient$getLayer(layer, ...)`

Method `clone()`: The objects of this class are cloneable with this method.

Usage:

`WFSSstreamingClient$clone(deep = FALSE)`

Arguments:

`deep` Whether to make a deep clone.

Author(s)

Jussi Jousimo <jvj@iki.fi>

See Also

`WFSRequest`, `WFSCachingClient`

WFSSstreamingRequest	An abstract class for building a URL reference to a WFS
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Description

An abstract class for building a URL reference to a WFS.

Super class

`rwfs::WFSRequest` -> WFSSstreamingRequest

Methods

Public methods:

- `WFSSstreamingRequest$getParameters()`
- `WFSSstreamingRequest$setPath()`
- `WFSSstreamingRequest$setParameters()`
- `WFSSstreamingRequest$getCapabilities()`
- `WFSSstreamingRequest$getFeature()`
- `WFSSstreamingRequest$clone()`

Method `getParameters()`:

Usage:

`WFSSstreamingRequest$getParameters()`

Method `setPath()`:

Usage:

`WFSSstreamingRequest$setPath(path)`

Method `setParameters()`:

Usage:

`WFSSstreamingRequest$setParameters(...)`

Method `getCapabilities()`:

Usage:

`WFSSstreamingRequest$getCapabilities(version = "1.0.0", ...)`

Method `getFeature()`:

Usage:

`WFSSstreamingRequest$getFeature(version = "1.0.0", typeNames, ...)`

Method `clone()`: The objects of this class are cloneable with this method.

Usage:

`WFSSstreamingRequest$clone(deep = FALSE)`

Arguments:

`deep` Whether to make a deep clone.

Author(s)

Jussi Jousimo <jvj@iki.fi>

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