

Package: alabaster.string (via r-universe)

May 29, 2026

Title Save and Load Biostrings to/from File

Version 1.12.0

Date 2023-12-29

Description Save Biostrings objects to file artifacts, and load them back into memory. This is a more portable alternative to serialization of such objects into RDS files. Each artifact is associated with metadata for further interpretation; downstream applications can enrich this metadata with context-specific properties.

License MIT + file LICENSE

Depends Biostrings, alabaster.base

Imports utils, methods, S4Vectors

Suggests BiocStyle, rmarkdown, knitr, testthat

VignetteBuilder knitr

RoxygenNote 7.2.3

biocViews DataImport, DataRepresentation

Config/pak/sysreqs libssl-dev libnode-dev zlib1g-dev

Repository <https://bioc-release.r-universe.dev>

Date/Publication 2026-04-28 13:00:09 UTC

RemoteUrl <https://github.com/bioc/alabaster.string>

RemoteRef RELEASE_3_23

RemoteSha 4cc6030ebc62bc8a9e33fd0fd7df4f053efe15d0

Contents

| | |
|--|---|
| readXStringSet | 2 |
| saveObject,XStringSet-method | 3 |

| | |
|--------------|----------|
| Index | 4 |
|--------------|----------|

| | |
|----------------|--------------------------------------|
| readXStringSet | <i>Read an XStringSet from disk.</i> |
|----------------|--------------------------------------|

Description

Read a [XStringSet](#) object from its on-disk representation. This is usually not directly called by users, but is instead called by dispatch in [readObject](#).

Usage

```
readXStringSet(path, metadata, ...)
```

Arguments

| | |
|----------|---|
| path | String containing a path to a directory, itself created using the saveObject method for XStringSet objects. |
| metadata | Named list of metadata for this object, see readObjectFile for details. |
| ... | Further arguments passed to internal altReadObject calls. |

Value

An [XStringSet](#) subclass containing DNA, RNA, protein or custom sequences. This may also be a [QualityScaledDNAStrngSet](#) with quality scores.

See Also

"[saveObject,XStringSet-method](#)", to save an [XStringSet](#) to disk.

Examples

```
library(Biostrings)
stuff <- DNAStrngSet(c("AAA", "CC", "G", "TTTT"))

tmp <- tempfile()
saveObject(stuff, tmp)
readObject(tmp)
```

saveObject,XStringSet-method
Save a XStringSet to disk

Description

Save a [XStringSet](#) to its on-disk representation.

Usage

```
## S4 method for signature 'XStringSet'  
saveObject(x, path, ...)
```

Arguments

| | |
|------|---|
| x | A XStringSet or any of its subclasses such as a QualityScaledXStringSet . |
| path | String containing the path to a directory in which to save x. |
| ... | Further arguments to pass to specific methods. |

Value

The contents of x are saved into a path, and NULL is invisibly returned.

Author(s)

Aaron Lun

See Also

[readXStringSet](#), to read the XStringSet back into the R session.

Examples

```
library(Biostrings)  
stuff <- DNASTringSet(c("AAA", "CC", "G", "TTTT"))  
  
tmp <- tempfile()  
saveObject(stuff, tmp)  
list.files(tmp, recursive=TRUE)
```

Index

altReadObject, [2](#)

loadXStringSet (readXStringSet), [2](#)

QualityScaledDNAStrngSet, [2](#)

QualityScaledXStringSet, [3](#)

readObject, [2](#)

readObjectFile, [2](#)

readXStringSet, [2](#), [3](#)

saveObject, [2](#)

saveObject, XStringSet-method, [3](#)

stageObject, XStringSet-method
(saveObject, XStringSet-method),
[3](#)

XStringSet, [2](#), [3](#)