# Package 'alabaster.string'

November 12, 2024

Title Save and Load Biostrings to/from File

Version 1.6.0

<b>Date</b> 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
git_url https://git.bioconductor.org/packages/alabaster.string
git_branch RELEASE_3_20
git_last_commit 18f2e6b
git_last_commit_date 2024-10-29
Repository Bioconductor 3.20
Date/Publication 2024-11-12
Author Aaron Lun [aut, cre]
Maintainer Aaron Lun <infinite.monkeys.with.keyboards@gmail.com></infinite.monkeys.with.keyboards@gmail.com>
Contents
readXStringSet
Index

readXStringSet

Read an XStringSet from disk.

### **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**

String containing a path to a directory, itself created using the saveObject method for XStringSet objects.

Mamed 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 QualityScaledDNAStringSet with quality scores.

#### See Also

"saveObject, XStringSet-method", to save an XStringSet to disk.

# **Examples**

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

tmp <- tempfile()
saveObject(stuff, tmp)
readObject(tmp)</pre>
```

```
{\tt save Object, XString Set-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)</pre>
```

# **Index**