# Package 'alabaster.string'

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Title Save and Load Biostrings to/from File

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**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.

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Depends Biostrings, alabaster.base

Imports utils, methods, S4Vectors

Suggests BiocStyle, rmarkdown, knitr, testthat

VignetteBuilder knitr

RoxygenNote 7.2.3

biocViews DataImport, DataRepresentation

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readXStringSet

# 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 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"))</pre>
```

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

#### Description

Save a XStringSet to its on-disk representation.

# Usage

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

# Arguments

х	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)

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# See Also

readXStringSet, to read the XStringSet back into the R session.

# Examples

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

tmp <- tempfile()
saveObject(stuff, tmp)
list.files(tmp, recursive=TRUE)</pre>

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