# 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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<b>Depends</b> Biostrings, alabaster.base
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Suggests BiocStyle, rmarkdown, knitr, testthat
VignetteBuilder knitr
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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)

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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"))

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

# **Index**