Package ‘alabaster.vcf’

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Title Save and Load Variant Data to/from File

Version 1.7.0

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Description Save variant calling SummarizedExperiment to file and load them back as VCF objects.
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.

Depends alabaster.base, VariantAnnotation

Imports methods, S4Vectors, alabaster.se, alabaster.string, Rsamtools

Suggests knitr, rmarkdown, BiocStyle, testthat

RoxygenNote 7.2.3

VignetteBuilder knitr

biocViews DataImport, DataRepresentation

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Contents

`readVCF` *Read a VCF object from disk*

Description

Read a VCF object from its on-disk representation.

Usage

```
readVCF(path, metadata, ...)
```

Arguments

`path`	String containing a path to a directory, usually generated by the `saveObject` method for VCF object.s
`metadata`	Named list of metadata for this object, see `readObjectFile` for details.
`...`	Further arguments passed to internal `altReadObject` calls.

Value

A VCF object.

Author(s)

Aaron Lun

See Also

`saveObject,VCF-method`, to save VCF objects to disk.

Examples

```
fl <- system.file("extdata", "structural.vcf", package="VariantAnnotation")
vcf <- readVcf(fl)

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

`saveObject,VCF-method` *Save a VCF object to disk*

Description

Save a VCF object to its on-disk representation, namely a VCF file with the same contents.

Usage

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

Arguments

`x`	Any instance of a VCF class or one of its subclasses.
`path`	String containing the path to a directory in which to save `x`.
`...`	Further arguments to pass to specific methods.

Value

`x` is saved to file inside `path`, and `NULL` is returned.

Author(s)

Aaron Lun

See Also

`readVCF`, to read a VCF object back to the R session.

Examples

```
fl <- system.file("extdata", "structural.vcf", package="VariantAnnotation")
vcf <- readVcf(fl)

tmp <- tempfile()
saveObject(vcf, tmp)
```

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