Package 'alabaster.vcf'

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Title Save and Load Variant Data to/from File

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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.

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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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readVCF

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)</pre>
```

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

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

| Х | 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)</pre>
```

tmp <- tempfile()
saveObject(vcf, tmp)</pre>

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