

Package ‘alabaster.vcf’

April 29, 2025

Title Save and Load Variant Data to/from File

Version 1.9.0

Date 2024-01-02

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.

License MIT + file LICENSE

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

git_url <https://git.bioconductor.org/packages/alabaster.vcf>

git_branch devel

git_last_commit 5efb770

git_last_commit_date 2025-04-15

Repository Bioconductor 3.22

Date/Publication 2025-04-29

Author Aaron Lun [aut, cre]

Maintainer Aaron Lun <infinite.monkeys.with.keyboards@gmail.com>

Contents

| | |
|---------------------------------|----------|
| readVCF | 2 |
| saveObject,VCF-method | 3 |
| Index | 4 |

| | |
|---------|------------------------------------|
| readVCF | <i>Read a VCF object from disk</i> |
|---------|------------------------------------|

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 objects. |
| 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

```
f1 <- system.file("extdata", "structural.vcf", package="VariantAnnotation")
vcf <- readVcf(f1)

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

```
f1 <- system.file("extdata", "structural.vcf", package="VariantAnnotation")
vcf <- readVcf(f1)

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

Index

altReadObject, [2](#)

loadVCF (readVCF), [2](#)
loadVCFHeader (readVCF), [2](#)

readObjectFile, [2](#)
readVCF, [2](#), [3](#)

saveObject, [2](#)
saveObject, VCF-method, [3](#)
stageObject, VCF-method
 (saveObject, VCF-method), [3](#)
stageObject, VCFHeader-method
 (saveObject, VCF-method), [3](#)

VCF, [2](#), [3](#)