

# Package ‘alabaster.vcf’

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**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.

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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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|         |                                    |
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| readVCF | <i>Read a VCF object from disk</i> |
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## 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 <a href="#">saveObject</a> method for <a href="#">VCF</a> objects. |
| metadata | Named list of metadata for this object, see <a href="#">readObjectFile</a> for details.                                              |
| ...      | Further arguments passed to internal <a href="#">altReadObject</a> 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)
```

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

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### 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 <a href="#">VCF</a> 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)
```

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