Package 'cpp11bigwig'

December 11, 2025

Type Package
Title Read bigWig and bigBed Files
Version 0.1.3
Description Read bigWig and bigBed files using ``libBigWig" https://github.com/dpryan79/libBigWig . Provides lightweight access to the binary bigWig and bigBed formats developed by the UCSC Genome Browser group.
License MIT + file LICENSE
<pre>URL https://rnabioco.github.io/cpp11bigwig/,</pre>
https://github.com/rnabioco/cpp11bigwig
BugReports https://github.com/rnabioco/cpp11bigwig/issues
Imports GenomicRanges, IRanges, tibble
Suggests testthat (>= 3.0.0)
LinkingTo cpp11
Config/Needs/website rnabioco/rbitemplate
Config/testthat/edition 3
Encoding UTF-8
RoxygenNote 7.3.2
NeedsCompilation yes
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Repository CRAN
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Contents
read_bigbed

2 read_bigbed

Index 4

read_bigbed

Read data from bigBed files.

Description

Columns are automatically typed based on the autoSql schema embedded in the bigBed file. Integer types (uint, int) become R integers, floating point types (float, double) become R doubles, and all other types (including array types like int[blockCount]) remain as character strings.

Usage

```
read_bigbed(bbfile, chrom = NULL, start = NULL, end = NULL)
```

Arguments

bbfile filename for bigBed file

chrom read data for specific chromosome

start start position for data end end position for data

Value

tibble

See Also

```
https://github.com/dpryan79/libBigWig
https://github.com/brentp/bw-python
```

Examples

```
bb <- system.file("extdata", "test.bb", package = "cpp11bigwig")
read_bigbed(bb)
read_bigbed(bb, chrom = "chr10")</pre>
```

read_bigwig 3

read_bigwig Re	ead data from bigWig files.

Description

Read data from bigWig files.

Usage

```
read_bigwig(bwfile, chrom = NULL, start = NULL, end = NULL, as = NULL)
```

Arguments

bwfile filename for bigWig file
chrom read data for specific chromosome
start start position for data
end end position for data
as return data as a specific type. The default is a tibble (tb1) or GRanges (gr)

Value

tibble

See Also

```
https://github.com/dpryan79/libBigWig
https://github.com/brentp/bw-python
```

Examples

```
bw <- system.file("extdata", "test.bw", package = "cpp11bigwig")
read_bigwig(bw)
read_bigwig(bw, chrom = "10")
read_bigwig(bw, chrom = "1", start = 100, end = 130)
read_bigwig(bw, as = "GRanges")</pre>
```

Index

read_bigbed, 2
read_bigwig, 3