Package 'cpp11bigwig'

January 19, 2025

Type Package **Title** Read bigWig and bigBed Files Version 0.1.1 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 URL https://rnabioco.github.io/cpp11bigwig/, 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 Author Jay Hesselberth [aut, cre], RNA Bioscience Initiative [fnd, cph], Devon Ryan [cph] Maintainer Jay Hesselberth < jay.hesselberth@gmail.com> **Repository** CRAN

Date/Publication 2025-01-19 22:10:11 UTC

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read_bigbed Read data from bigBed files.

Description

Read data from bigBed files.

Usage

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

Arguments

bbfile	filename for bigBed file
chrom	read data for specific chromosome
start	start position for data
end	end position for data
convert	convert bigBed values to individual columns

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>
```

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read_bigwig

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 (tbl) 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>
```

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