

Package ‘cpp11bigwig’

January 7, 2025

Type Package

Title Read bigWig and bigBed Files

Version 0.1.0

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.

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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

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Repository CRAN

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read_bigbed	<i>Read data from bigBed files.</i>
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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")
```

read_bigwig	<i>Read data from bigWig files.</i>
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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")
```

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