Package: boilerpipeR (via r-universe)

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Title Interface to the Boilerpipe Java Library

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Imports rJava

Suggests RCurl

Description Generic Extraction of main text content from HTML files;
removal of ads, sidebars and headers using the boilerpipe
<https://github.com/kohlschutter/boilerpipe> Java library. The
extraction heuristics from boilerpipe show a robust performance
for a wide range of web site templates.

License Apache License (== 2.0)

URL https://github.com/mannau/boilerpipeR

BugReports https://github.com/mannau/boilerpipeR/issues

RoxygenNote 7.1.1

Encoding UTF-8

NeedsCompilation no

Repository https://cran.r-universe.dev

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`boilerpipeR-package` *Extract the main content from HTML files*

Description

boilerpipeR interfaces the boilerpipe Java library, created by Christian Kohlschutter https://github.com/kohlschutter/boilerpipe. It implements robust heuristics to extract the main content from HTML files, removing unessecary elements like ads, banners and headers/footers.

Author(s)

Mario Annau <mario.annau@gmail>

See Also

`Extractor` `DefaultExtractor` `ArticleExtractor`

Examples

```
## Not run:
data(content)
extract <- DefaultExtractor(content)
cat(extract)

## End(Not run)
```

`ArticleExtractor` *A full-text extractor which is tuned towards news articles.*

Description

In this scenario it achieves higher accuracy than `DefaultExtractor`.

Usage

```
ArticleExtractor(content, ...)
```

Arguments

content	Text content as character
...	additional parameters

Value

extracted text as character

Author(s)

Mario Annau

See Also

Extractor

Examples

```
data(content)
extract <- ArticleExtractor(content)
```

ArticleSentencesExtractor

A full-text extractor which is tuned towards extracting sentences from news articles.

Description

A full-text extractor which is tuned towards extracting sentences from news articles.

Usage

```
ArticleSentencesExtractor(content, ...)
```

Arguments

content	Text content as character
...	additional parameters

Value

extracted text as character

Author(s)

Mario Annau

See Also

Extractor

Examples

```
data(content)
extract <- ArticleSentencesExtractor(content)
```

CanolaExtractor *A full-text extractor trained on a 'krdwrd' Canola (see* https://krdwrd.org/trac/attachment/wiki/Corpora/Canola/CANOLA.pdf.

Description

A full-text extractor trained on a 'krdwrd' Canola (see https://krdwrd.org/trac/attachment/wiki/Corpora/Canola/C

Usage

```
CanolaExtractor(content, ...)
```

Arguments

content	Text content as character
...	additional parameters

Value

extracted text as character

Author(s)

Mario Annau

See Also

Extractor

Examples

```
data(content)
extract <- CanolaExtractor(content)
```

content *Wordpress generated Webpage (retrieved from Quantivity Blog https://quantivity.wordpress.com). Content is saved as character and ready to be extracted.*

Description

Wordpress generated Webpage (retrieved from Quantivity Blog https://quantivity.wordpress.com). Content is saved as character and ready to be extracted.

Author(s)

Mario Annau

References

https://quantivity.wordpress.com

Examples

```
#Data set has been generated as follows:
## Not run:
library(RCurl)
url <- "https://quantivity.wordpress.com/2012/11/09/multi-asset-market-regimes/"
content <- getURL(url)
content <- iconv(content, "UTF-8", "ASCII//TRANSLIT")
save(content, file = "content.rda")

## End(Not run)
```

DefaultExtractor *A quite generic full-text extractor.*

Description

A quite generic full-text extractor.

Usage

```
DefaultExtractor(content, ...)
```

Arguments

content	Text content as character
...	additional parameters

Value

extracted text as character

Author(s)

Mario Annau

See Also

Extractor

Examples

```
data(content)
extract <- DefaultExtractor(content)
```

`Extractor` *Generic extraction function which calls boilerpipe extractors*

Description

It is the actual workhorse which directly calls the boilerpipe Java library. Typically called through functions as listed for parameter `exname`.

Usage

```
Extractor(exname, content, asText = TRUE, ...)
```

Arguments

`exname`	character specifying the extractor to be used. It can take one of the following values: • `ArticleExtractor`A full-text extractor which is tuned towards news articles. • `ArticleSentencesExtractor`A full-text extractor which is tuned towards extracting sentences from news articles. • `CanolaExtractor`A full-text extractor trained on a 'krdwrd'. • `DefaultExtractor`A quite generic full-text extractor. • `KeepEverythingExtractor`Marks everything as content. • `LargestContentExtractor`A full-text extractor which extracts the largest text component of a page. • `NumWordsRulesExtractor`A quite generic full-text extractor solely based upon the number of words per block.
`content`	Text content or URL as character
`asText`	should content specifed be treated as actual text to be extracted or url (from which HTML document is first downloaded and extracted afterwards), defaults to TRUE
`...`	additional parameters

Value

extracted text as character

Author(s)

Mario Annau

References

https://github.com/kohlschutter/boilerpipe

`KeepEverythingExtractor` *Marks everything as content.*

Description

Marks everything as content.

Usage

```
KeepEverythingExtractor(content, ...)
```

Arguments

`content`	Text content as character
`...`	additional parameters

Value

extracted text as character

Author(s)

Mario Annau

See Also

`Extractor`

Examples

```
data(content)
extract <- KeepEverythingExtractor(content)
```

`LargestContentExtractor` *A full-text extractor which extracts the largest text component of a page.*

Description

For news articles, it may perform better than the `DefaultExtractor`, but usually worse than `ArticleExtractor`.

Usage

```
LargestContentExtractor(content, ...)
```

Arguments

`content`	Text content as character
`...`	additional parameters

Value

extracted text as character

Author(s)

Mario Annau

See Also

`Extractor`

Examples

```
data(content)
extract <- LargestContentExtractor(content)
```

NumWordsRulesExtractor

A quite generic full-text extractor solely based upon the number of words per block (the current, the previous and the next block).

Description

A quite generic full-text extractor solely based upon the number of words per block (the current, the previous and the next block).

Usage

```
NumWordsRulesExtractor(content, ...)
```

Arguments

content	Text content as character
...	additional parameters

Value

extracted text as character

Author(s)

Mario Annau

See Also

Extractor

Examples

```
data(content)
extract <- NumWordsRulesExtractor(content)
```

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