

# Package ‘boilerpipeR’

October 12, 2022

**Version** 1.3.2

**Date** 2021-05-19

**Title** Interface to the Boilerpipe Java Library

**Author** See AUTHORS file.

**Maintainer** Mario Annau <mario.annau@gmail.com>

**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** CRAN

**Date/Publication** 2021-05-19 09:20:02 UTC

## R topics documented:

boilerpipeR-package . . . . .	2
ArticleExtractor . . . . .	2
ArticleSentencesExtractor . . . . .	3
CanolaExtractor . . . . .	4
content . . . . .	4
DefaultExtractor . . . . .	5
Extractor . . . . .	6

KeepEverythingExtractor . . . . .	7
LargestContentExtractor . . . . .	7
NumWordsRulesExtractor . . . . .	8

<b>Index</b>	<b>10</b>
--------------	-----------

---

boilerpipeR-package	<i>Extract the main content from HTML files</i>
---------------------	---

---

## 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 unnessecary 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	<i>A full-text extractor which is tuned towards news articles.</i>
------------------	--

---

## 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 'krdwrđ' Canola (see <https://krdwrđ.org/trac/attachment/wiki/Corpora/Canola/CANOLA.pdf>).*

---

### Description

A full-text extractor trained on a 'krdwrđ' Canola (see <https://krdwrđ.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	<i>Wordpress generated Webpage (retrieved from Quantivity Blog <a href="https://quantivity.wordpress.com">https://quantivity.wordpress.com</a>). Content is saved as character and ready to be extracted.</i>
---------	---

---

### 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: <ul style="list-style-type: none"> <li>• <a href="#">ArticleExtractor</a> A full-text extractor which is tuned towards news articles.</li> <li>• <a href="#">ArticleSentencesExtractor</a> A full-text extractor which is tuned towards extracting sentences from news articles.</li> <li>• <a href="#">CanolaExtractor</a> A full-text extractor trained on a 'krdwrld'.</li> <li>• <a href="#">DefaultExtractor</a> A quite generic full-text extractor.</li> <li>• <a href="#">KeepEverythingExtractor</a> Marks everything as content.</li> <li>• <a href="#">LargestContentExtractor</a> A full-text extractor which extracts the largest text component of a page.</li> <li>• <a href="#">NumWordsRulesExtractor</a> A quite generic full-text extractor solely based upon the number of words per block.</li> </ul>
content	Text content or URL as character
asText	should content specified 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)
```

# Index

\* **data**

content, [4](#)

\* **package**

boilerpipeR-package, [2](#)

ArticleExtractor, [2](#), [2](#), [6](#), [7](#)

ArticleSentencesExtractor, [3](#), [6](#)

boilerpipe (boilerpipeR-package), [2](#)

boilerpipeR-package, [2](#)

CanolaExtractor, [4](#), [6](#)

content, [4](#)

DefaultExtractor, [2](#), [5](#), [6](#), [7](#)

Extractor, [2–5](#), [6](#), [7–9](#)

KeepEverythingExtractor, [6](#), [7](#)

LargestContentExtractor, [6](#), [7](#)

NumWordsRulesExtractor, [6](#), [8](#)