

Short Introduction to **boilerpipeR**

Mario Annau
mario.annau@gmail.com

May 10, 2015

Abstract

This vignette gives a short introduction to **boilerpipeR**, a package which interfaces the boilerpipe Java library by Kohlschütter et al. (2010). It implements robust heuristics to extract the main content from HTML files, removing unwanted elements like ads, banners, headers and footers.

1 Getting Started

boilerpipeR provides an R interface to the boilerpipe Java library. It implements various robust heuristics to extract the main content from arbitrary web sites. The more sophisticated algorithms included are based on decision trees and have been trained on a real-world data set (retrieved through Google News, <http://news.google.com>).

For a quick content extraction exercise, we first need to retrieve a webpage. After loading the packages for page extraction and retrieval

```
> library(boilerpipeR)
> library(RCurl)
```

we can retrieve the content of from a webpage using **RCurl**:

```
> url <- "http://quantivity.wordpress.com/2012/11/09/multi-asset-market-regimes/"
> content <- getURL(url)
```

The code above retrieves the posting from a quite popular finance blog hosted on Wordpress (www.wordpress.com), currently one of the most popular blogging engines on the Internet. An inspection of the retrieved content string reveals a lot of typical HTML markup, including regions like sidebars, headers, etc. (see also Figure 1).

```
> cat(substr(content, 1, 80))
```

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.or
```

A simple extraction of the HTML-body element and dropping all markup would still include a lot of unnecessary content which can be disturbing for text mining algorithms. We can therefore use one of our default extractors from **boilerpipeR**:

```
> extract <- DefaultExtractor(content)
> cat(substr(extract, 1, 120))
```

```
Multi-Asset Market Regimes
```

```
November 9, 2012
```

```
An astute reader suggested reproducing the results from a recent article on
```

2 Implemented Extractors

The list below describes all currently implemented extractors in **boilerpipeR**:

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 krdwrld.

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.

Quantity

