





NHSDataDictionaRy – a new package to automate the the web scraping of NHS NHS Data Dictionary lookups

Gary Hutson – Head of Advanced Analytics Arden & GEM Commissiong Support Unit

NHSDataDictionaRy package benefits



Always up to date, as the web scraping engine brings back the results from the NHS Data Dictionary site in real-time



Rationalisation of NHS lookups and providing consistency to lookups

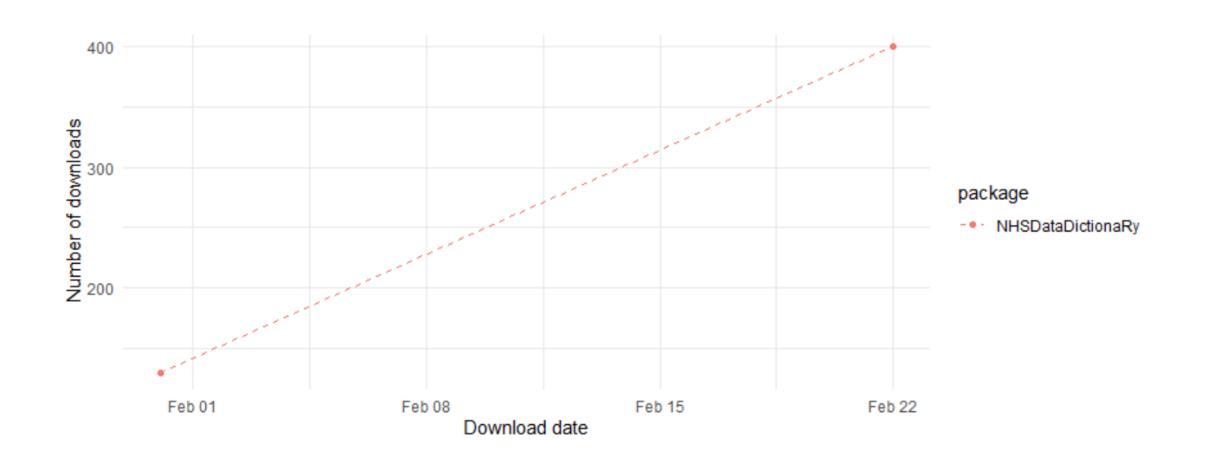


Ability to perform custom scraping of websites and website elements



Open source and maintained by the NHS-R Community

Downloads to date (n=529)



Using the package



Supporting resources



1 Loading the package

- 2 Accessing the NHS data links
- 3 Get all current hyperlinks from a webpage using linkScrapR
- 4 Opening a URL from R into a web browser
- 5 Working with the NHS R Data Dictionary lookup
- 5.1 tableR function (utilising scrapeR function)
- 5.2 Using my lookup with NHS data
- 5.3 Combine into one function
- 6 xpathTextR function
- 6.1 Cleaning the text example
- 6.2 Manipulating the text with Excel like string functions
- 7 Working with OpenSafely
- 8 Wrapping up

NHSDataDictionaRy package

Gary Hutson - Head of Advanced Analytics 21/04/2021

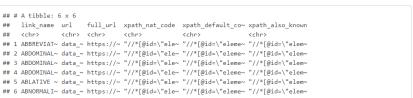
1 Loading the package

To load the package, you can use the below command:

2 Accessing the NHS data links

This function expects no return and is a way to query the NHS Data Dictionary database to get the most recent list of data elements and their associated lookups. The return of this will provide a tibble of all the links currently on the NHS Data Dictionary website:





This tibble gives a list of all lookups and their associated xpath codes i.e. a direct link to an HTML element, which is the standard way of extracting HTML DOM content. This is where the other functions in the package become powerful.



