

A UNIFIED APPROACH FOR WRITING AUTOMATIC REPORTS

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Parameterization and Generalization of R-Markdown

05_PrescRiptions

Render functions + 🖺 = 🍪

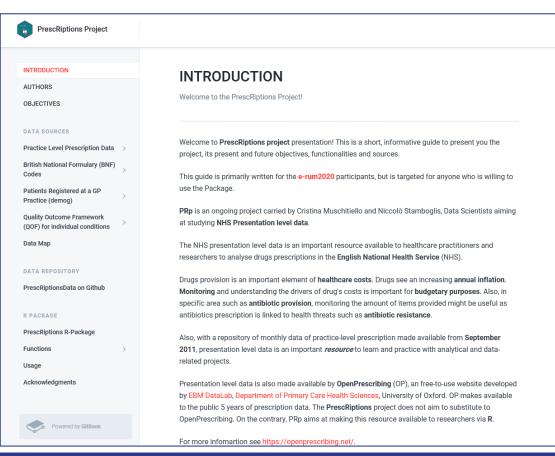


Render functions can be implemented in **R-packages**, with the following Advantages

- → Retrieve information with custom functions
- → Develop analytical functions outside of render
- → Render recalls given functions, thus simplifying
- → Better version control and documentation
- → Fast development with *roxygen*

The Project

PrescRiptions gitbook



Objectives

- → Analysis analyse English NHS presentation level data to identify specific prescription patterns operating at individual practice level and for specific prescription class.
- → Dissemination make the resources available to the wider research community via R.
- → Education use the developed material for R education purposes.

Data

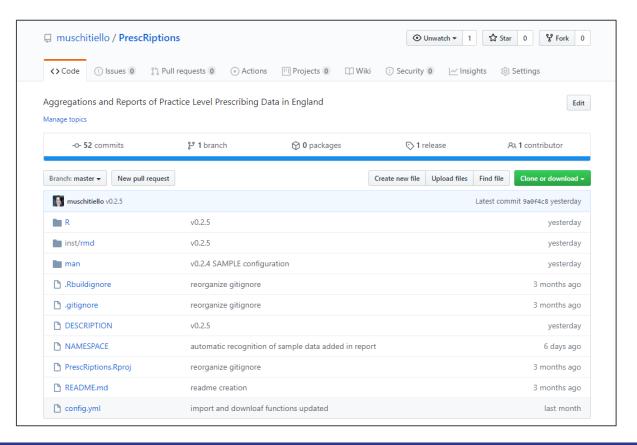
- → Practice level Data:
 - ◆ Prescription data
 - ◆ GP Addresses
 - ◆ Chemical substance names
- → British National Formulary: allows to organise prescriptions in clusters (e.g. antibiotics)
- → Practice demographics: registered patients by age and gender
- → Quality Outcome Frameworks (QOF): indicators related to the management of common conditions, public health concerns and preventative services at the practice level

Key functions

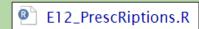
monthlyDataImport() -> for monthly data download generateSummaries() -> regional and BNF code summaries gpSummaries() -> GP-level summaries plpdDemogBridge() -> used to match prescription and demographical data renderMonthlyReport() -> ... and, of course, a render function for a monthly report!

Package





Your turn: Exercise 12



Play with package Functions and produce different reports using the function **renderMonthlyReport()**.

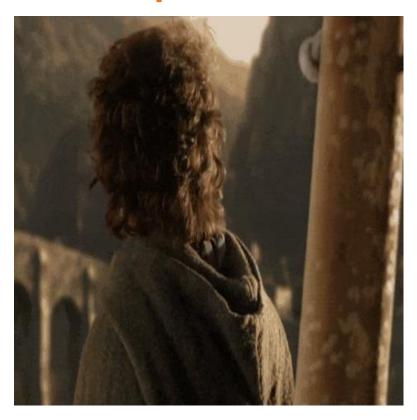


Questions





Next up: conclusions





Source: giphy.com