

Single Day Event

Using R – TFLs Generation with Custom Functions

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Overview

- Introduction
- Challenges in RTF outputs
- TFLs Generation with Custom Functions
- Custom Functions Overview and Summary
- Demo



Introduction

- In the pharmaceutical industry, Tables, figures, and listings (TFLs) generation is the center of clinical reporting
- RTF is a standard format of TFLs
- Existing R packages: data manipulation, statistical analyses, and advanced graphics
- Limitations: customizable TFLs in RTF



Challenges in RTF Outputs

Packages/ Functions	RMarkdown	officer & flextable	rtf
RTF outputs	✓	X	✓
Repeated footnotes and headers	X	X	X
Pagination	✓	X	X
Alignment	✓	✓	limited
Rows per page	X	limited	X
Column width	limited	✓	✓

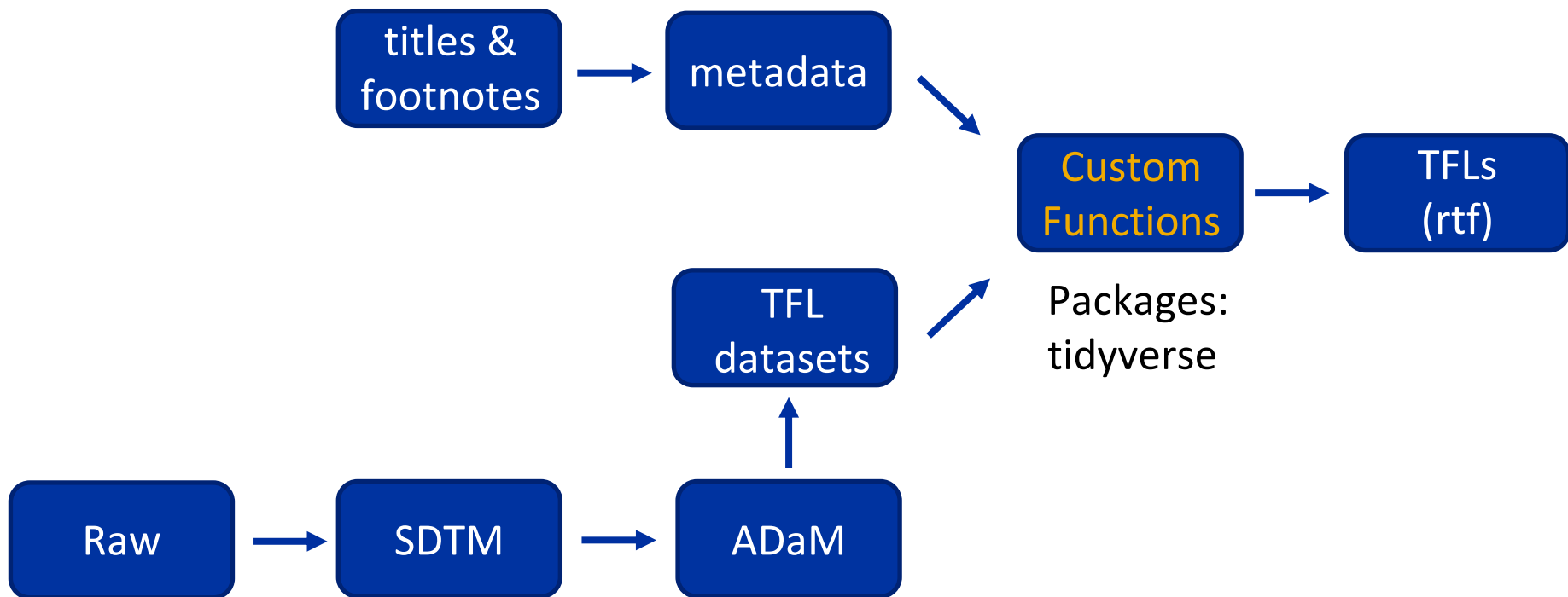
✓ : available; X: not available

Other packages from
different companies

- pharmaRTF
- Roche: rtable
- Merck: r2rtf



TFLs Generation with Custom Functions





Custom Functions Overview

Custom Functions provide the flexibility to create customizable TFLs in RTF

- Repeated titles, subtitles, column headers, footnotes, program source, and timestamp
- Table and figure size, column width, number of rows per page, font size, alignment in titles, footnotes, and body
- Pagination



Custom Functions Summary

Functions	Subfunctions	Purpose
rtf_template	rtf_layout	add headers
	rtf_title	add titles
	rtf_footer	add footers
	insert_png	add png figure
rtf_table	rtf_table	add table body to above layout
rtf_figure	rtf_figure	render high resolution custom figures to above layout

Demo

Thank you!



The Global Healthcare Data Science Community

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