

Data extraction and Graphical visualization for quick decision making



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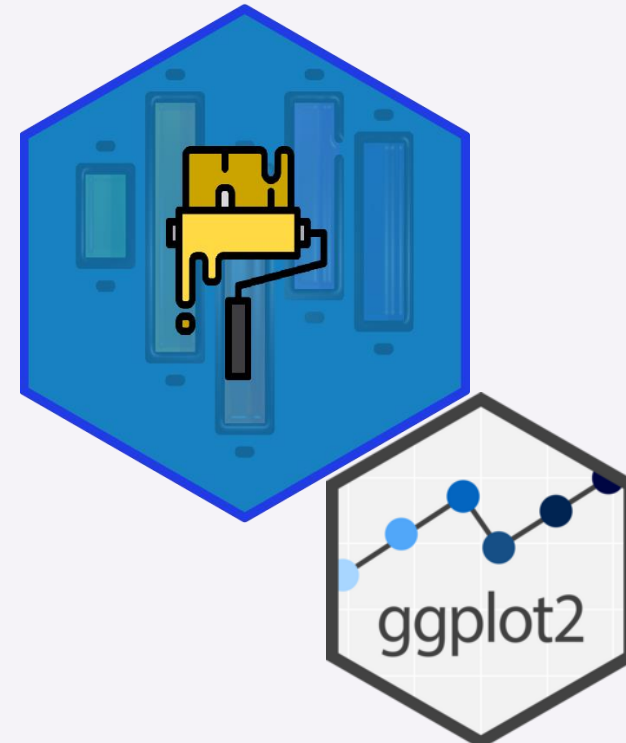
Sanofi USA

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Data ExtractoR and Graphic DesigneR:

These are R Shiny-based applications and mainly adopts “**The Grammar of Data manipulation**” principle using **dplyr** package and “**The Grammar of Graphics**” principle using **ggplot2** package.



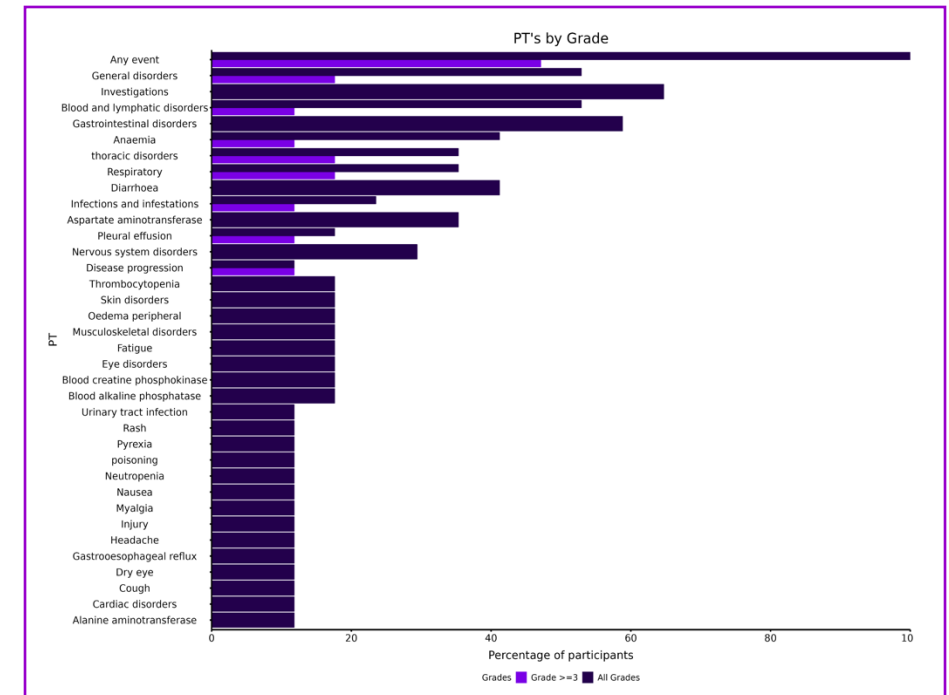
Why these applications were developed:

Number (%) of participants with TEAE(s) by primary SOC and PT (worst grade by participant)

n(%)

	OVERALL	
	All Grades (N=17)	Grade ≥3 (N=17)
Any event	17 (100)	8 (47.1)
Infections and infestations	4 (23.5)	2 (11.8)
Urinary tract infection	2 (11.8)	1 (5.9)
Oral herpes	1 (5.9)	0
Pneumonia	1 (5.9)	1 (5.9)
Neoplasms benign	1 (5.9)	1 (5.9)
Malignant neoplasm	1 (5.9)	1 (5.9)
Blood and lymphatic disorders	9 (52.9)	2 (11.8)
Anaemia	7 (41.2)	2 (11.8)
Thrombocytopenia	3 (17.6)	1 (5.9)
Neutropenia	2 (11.8)	0
Metabolism disorders	1 (5.9)	1 (5.9)
Hyponatraemia	1 (5.9)	1 (5.9)
Nervous system disorders	5 (29.4)	0
Headache	2 (11.8)	0

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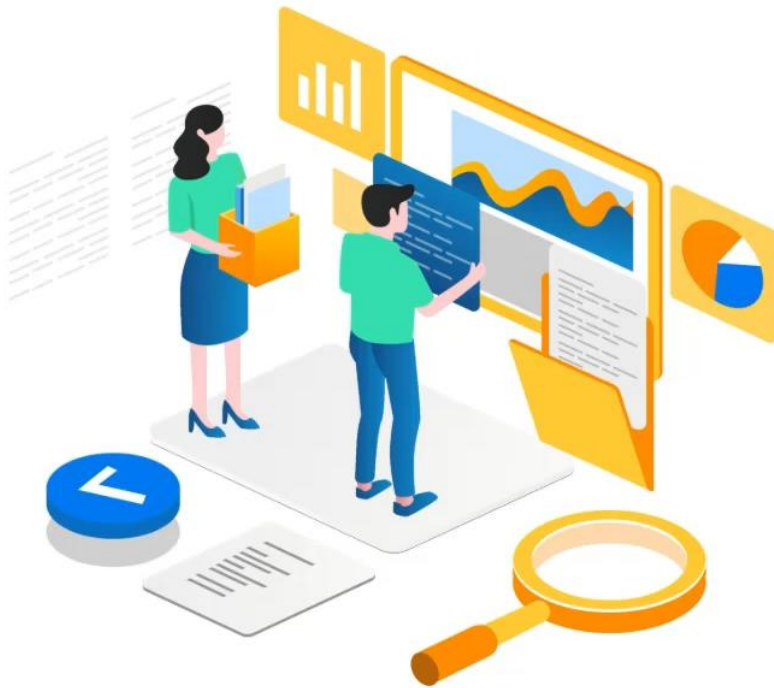


- To streamline, accelerate and equip users with a tool to extract data from summary reports/clinical trials report without writing any code.
- To visualize summarized data for quick comprehension of the trends and patterns.

Demo

**Disclaimer: All data presented in this presentation are simulated.
No real patient information is used or disclosed.**

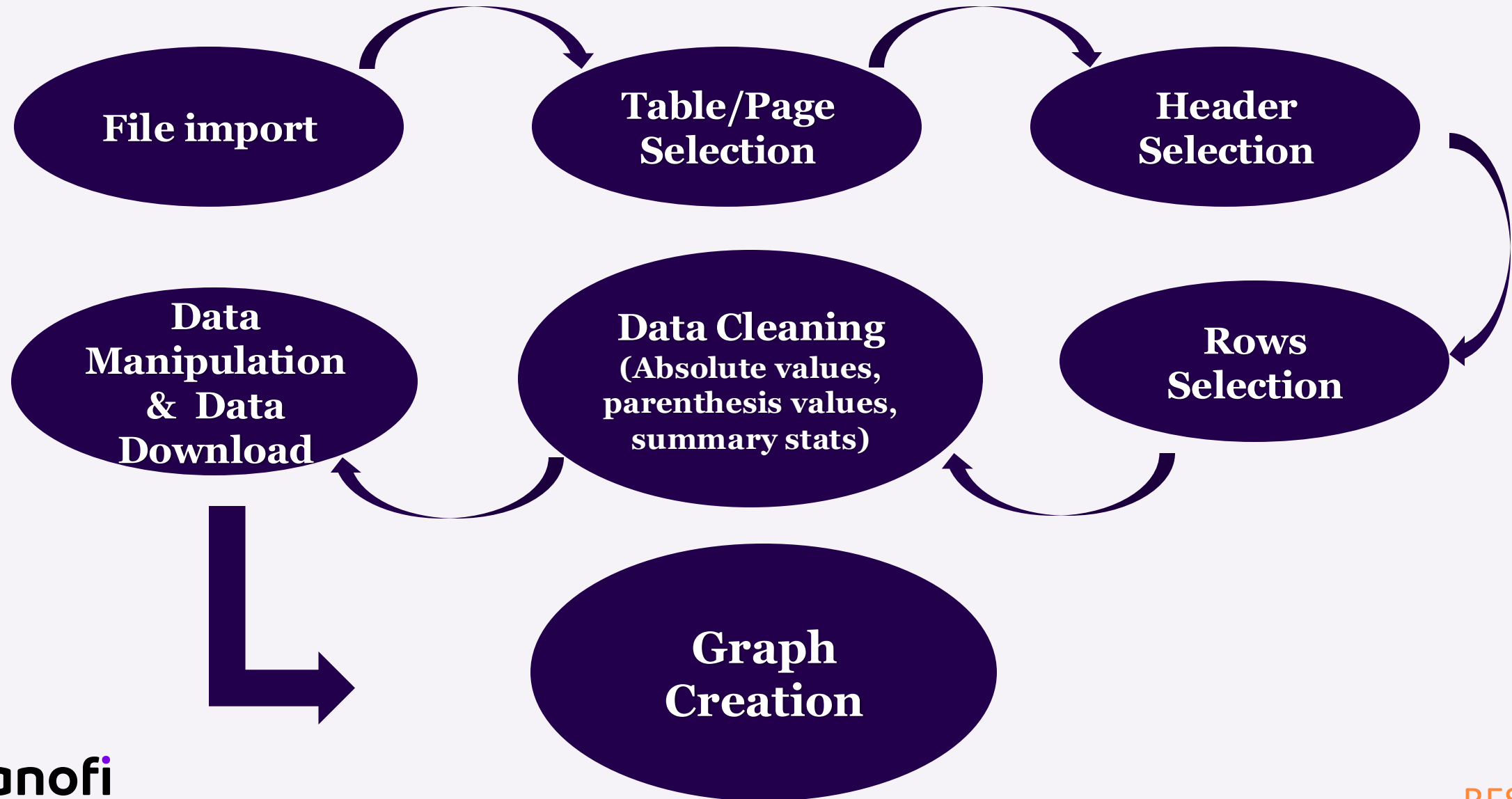




Experience the rich functionality of Data Extractor to extract the data from various file formats (PDF,RTF and Word).

Let's Start

Data Extraction and Graph Creation:



Salient features:

- **Data ExtractoR** provides a user-friendly, point and click interface for data extraction from summary reports in PDF/RTF/DOCX format.
- Extracted data can further be manipulated as per the needs.
- Data can be downloaded then in multiple formats e.g., csv, xlsx, json and sas7bdat.
- **Data ExtractoR** is mainly a large wrapper around the R package **dplyr**, based on "**The Grammar of data manipulation**" and behind the scenes, R code is compiled and executed.
- On the other hand, **Graph DesigneR** application is built on ggplot2 package.
- Data can be fed into the application to create graphs from the scratch or using templates.
- **Data ExtractoR** and **Graph DesigneR** are also regenerative. Respective code is generated along the way, which can be reused, adapted, validated to ensure reproducibility, and maximize generalizability.



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Thank You



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