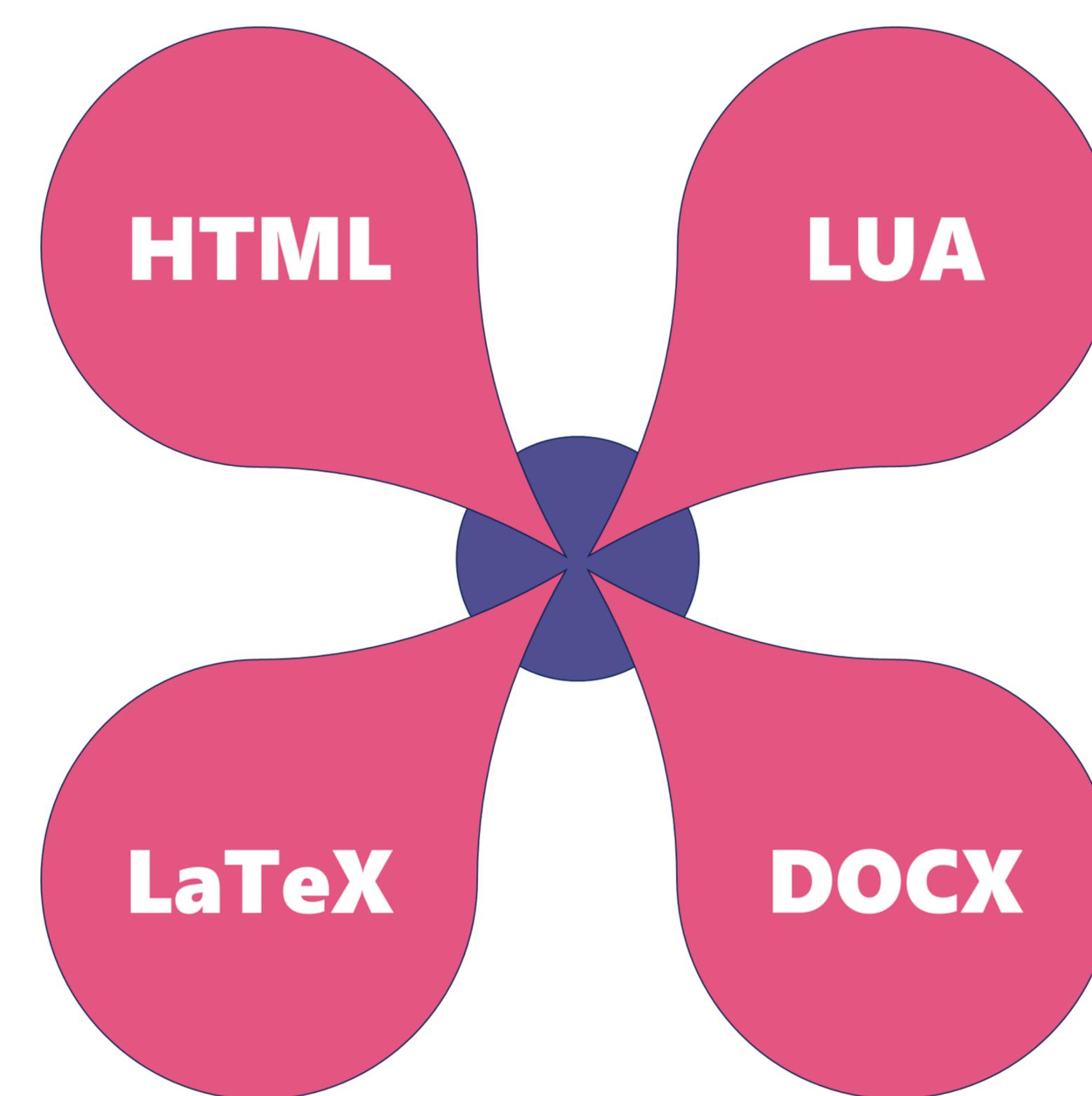


Quarto and custom templates let you create high-quality reporting documents with *style*

Repeatable Reports

Quarto is the “*next generation of R Markdown*”

- Design a report once, and endlessly rerun it with updated data
- Include written text alongside tables, figures, and raw code
- Run code and view output from R, Python, Julia, and Observable
- Output to **RTF, Word, PDF, interactive dashboards, presentations**, and more



Custom Templates

Create a **style** template once, reuse it forever for all clinical reports

- **HTML** templates for interactive documents
- **LUA** filters to create custom rendering operations
- **LaTeX** templates for PDF documents
- **DOCX** templates for Word documents

Use Case

- Use Quarto, R, and LaTeX
- Recursively scan a directory of datasets
- With R, summarize data with variable names, types, labels, and value summaries
- Create summary table with LaTeX
- Automatically create table headers and footers
- Output Report as PDF

Table 2: Summary of 'ex_adae'				
Data Directory: 'Phuse 2024/data'				
Order	Variable	Type	Label	Summary
1	STUDYID	character	Study Identifier	
2	USUBJID	character	Unique Subject Identifier	
3	SUBJID	character	Subject Identifier for the Study	
4	SITEID	character	Study Site Identifier	
5	AGE	integer	Age	mean:34.77; sd:7.66; range:20-69
6	SEX	factor	Sex	M, F, UNDIFFERENTIATED, U
7	RACE	factor	Race	WHITE, BLACK OR AFRICAN AMERICAN, ASIAN, AMERICAN INDIAN OR ALASKA NATIVE, NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER, MULTIPLE
8	COUNTRY	factor	Country	BRA, CAN, CHN, GBR, JPN, NGA, PAK, RUS, USA
9	INVID	character	Investigator Identifier	
10	ARM	factor	Description of Planned Arm	A: Drug X, C: Combination, B: Placebo
11	ARMCID	factor	Planned Arm Code	ARM A, ARM C, ARM B
12	ACTARM	factor	Description of Actual Arm	A: Drug X, C: Combination, B: Placebo
13	ACTARMCD	factor	Actual Arm Code	ARM A, ARM C, ARM B
14	STRATA1	factor	Stratification Factor 1	B, A, C
15	STRATA2	factor	Stratification Factor 2	S2, S1
16	BMIRKR1	numeric	Continuous Level Biomarker 1	mean:5.87; sd:3.52; range:0.17-21.39
17	BMIRKR2	factor	Categorical Level Biomarker 2	LOW, HIGH, MEDIUM
18	ITTFL	factor	Intent-To-Treat Population Flag	Y

Table 2: 'ex_adae' has 1,934 rows and 48 columns

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