

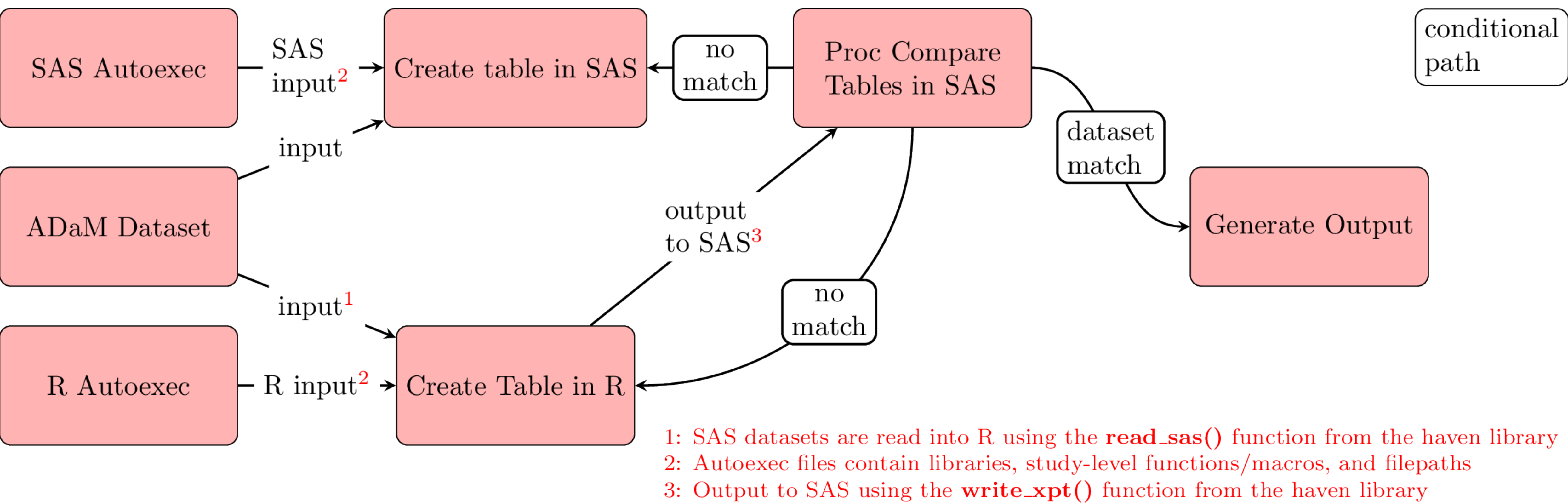
USING R FOR QC OF TABLES

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Abstract

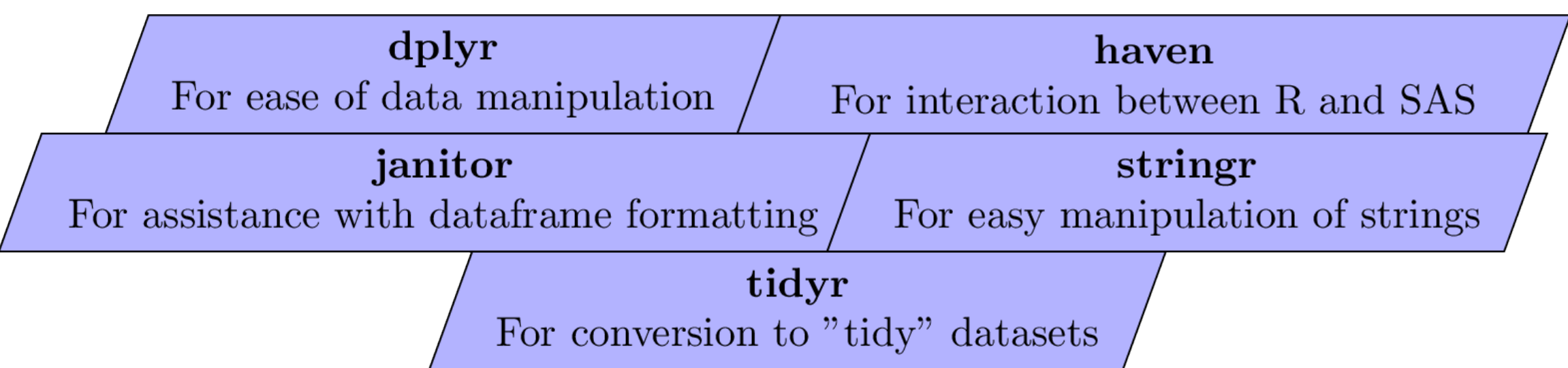
The R programming language is no longer a tool for the future generation of clinical programmers, rather it has become a staple for this one. Due to the magnitude of open-source libraries available for R, it is difficult to find an area it cannot enrich. In this paper, we combine the familiarity of SAS within the pharmaceutical industry with the versatility of R to provide a method for performing quality control under a double programming model. We use a combination of easily accessible SAS macros, R custom functions and libraries, and simple command-line interface to implement standard processes including dataset comparison between R and SAS files, log checks, and batch runs. We address the benefits and detriments of using both R and SAS as opposed to two SAS programs, the challenges that come with implementation, and the work yet to come regarding this project within our organization.

Work Flow

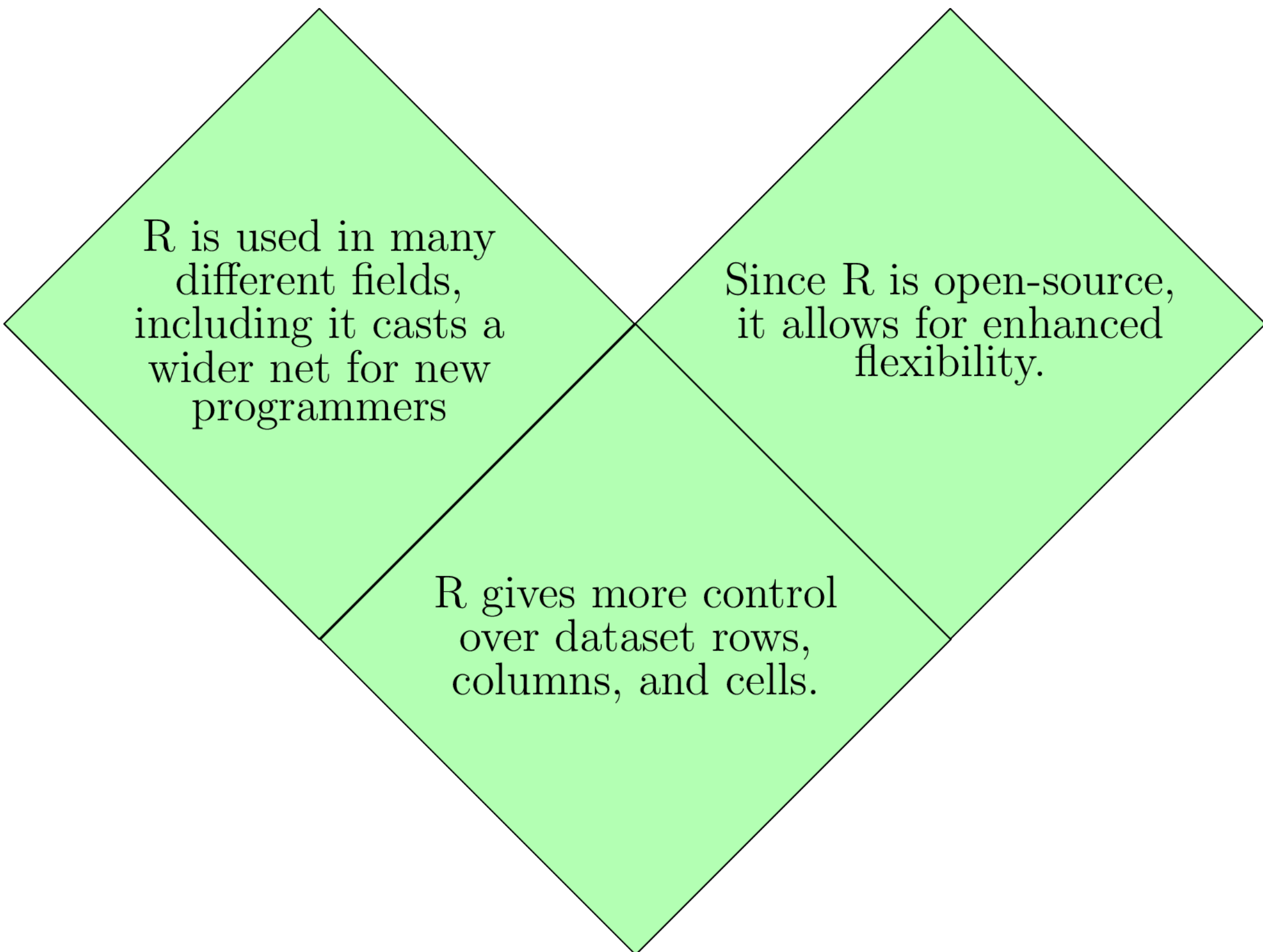


R Libraries

R libraries (packages) contain helpful functions created by the community.

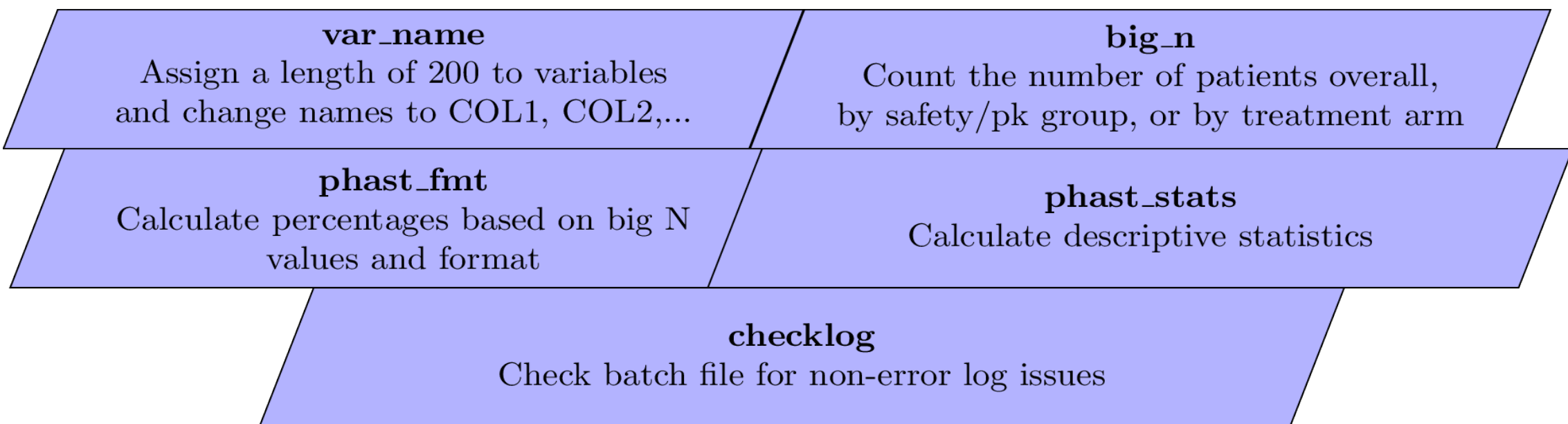


Advantages, Benefits, Perks

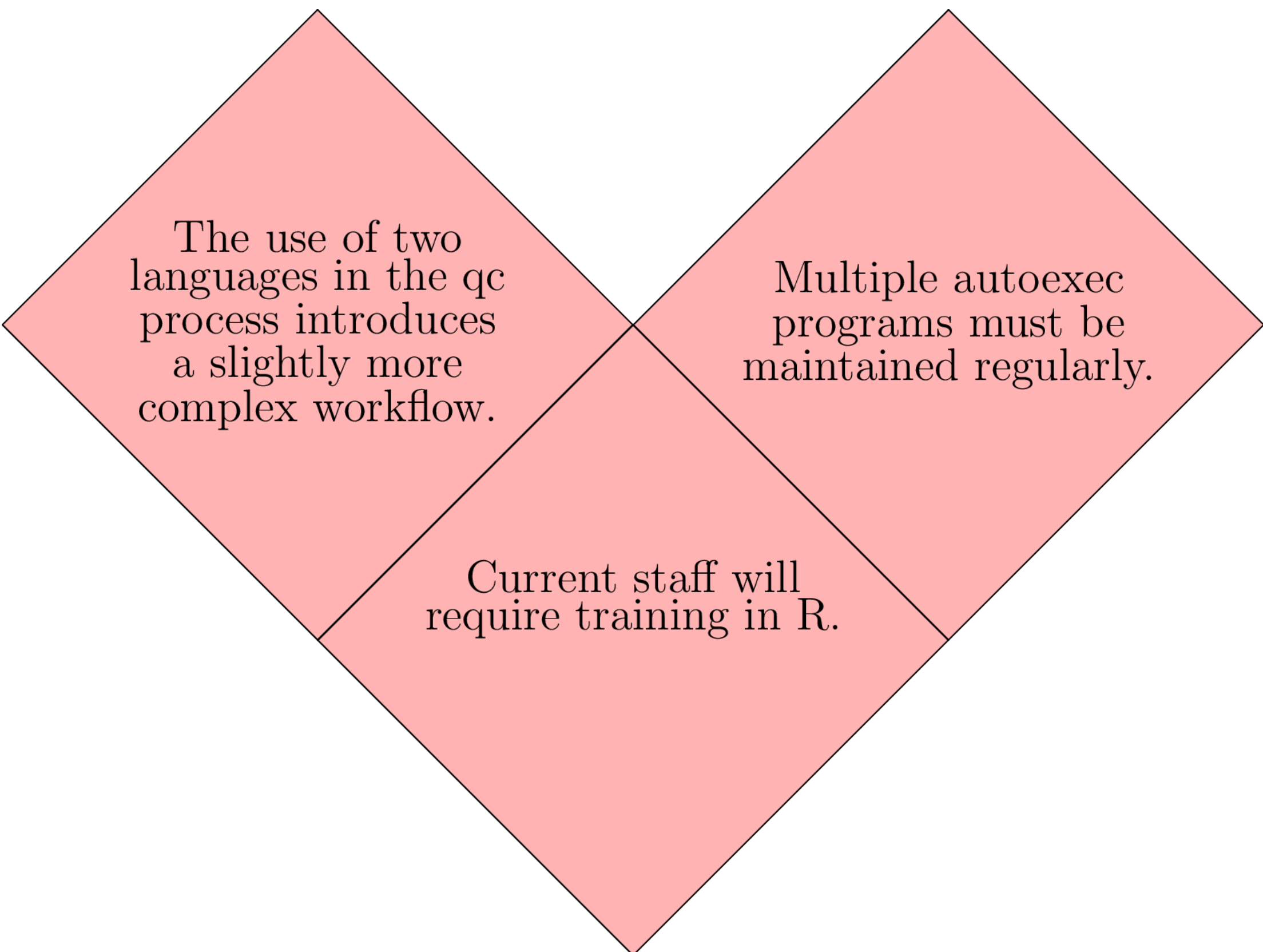


R Autoexec Function

An autoexec program offers quick access to useful functions within your organization.



Challenges, Difficulties, and Limitations



Future Work

In the near future, we hope to pilot the qc in R process on a real study. We will continue to refine the qc process by researching, creating, and implementing new libraries, functions, and techniques. Hiring programmers with previous experience in R will ensure fresh perspectives and lead to new applications for the language.