Multilingual and Open Sourced - a new chapter for Statistical Programming in Pharma
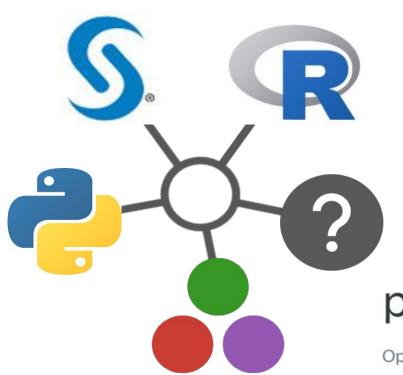
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Our part of the industry has rapidly started turning multilingual and there are signs that this trend will accelerate & expand

Benefit for all: Open Source collaborations gain traction

The best example so far is Pharmaverse.org (using R)

- Pharmaverse contains a rich set of open sourced packages which enable any interested party to build E2E analysis workflows that fits their needs
- There are no restrictions or pre-conditions to use these packages
- Many of the packages are already in CRAN or on their way to be there
- First regulatory approvals based on Pharmaverse packages have started to come in
- Our best collaborative example so far is admiral for CDISC SDTM -> CDISC ADaM mapping

pharmaverse

admiral — GSK, Roche

admiralonco — Roche, GSK, AMGEN, Bristol Myers Squibb

admiralophtha — Roche, NOVARTIS

admiralvaccine — Pfizer, GSK, Johnson&Johnson

admiralpeds — Cytel, Roche, atorus, Pfizer

admiralmetabolic — novo nordisk, Roche, GSK, Boehringer Ingelheim

Harmonization