

Code Sharing Is Caring

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Presentation No: TT02



Agenda

Importance of Collaboration

Code Collaboration Initiatives

A Look to the Future of Code Sharing

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Code Collaboration Initiatives

A Look to the Future of Code Sharing

Importance of Collaboration

- Reduce effort and duplicated work
- Deliver analysis faster
- Helps new programmers to the industry
- Encourage programmers to learn new languages e.g. increasing R usage
- Improves standardisation of programming



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Importance of Collaboration

Code Collaboration Initiatives

A Look to the Future of Code Sharing

Code Collaboration Initiatives

- CoCo (Code Collaboration) group formed in Roche to promote code sharing and collaborative programming across the global statistical programming community
- Initially started as a group creating a set of standard output code for anyone to pick up on their studies. Has since evolved into a global group encouraging code sharing.



Enterprise

Search or jump to...



Pull requests Issues Explore



STATSSPA / Code-Collaboration-Framework

Unwatch 25

Star 35

Fork 12

<> Code

Issues 7

Pull requests 0

Projects 0

Wiki

Insights

Settings

Code Collaboration Framework (Code Sharing Repository) <https://rsconnect.roche.com/content/332/>

Edit

Manage topics

975 commits

7 branches

0 releases

64 contributors

Branch: master

New pull request

Create new file

Upload files

Find file

Clone or download



thorpem3 SDTMVv QC Compare macro

Latest commit 1c43bae 4 days ago



admin

Add files via upload

3 months ago



shared

SDTMVv QC Compare macro

4 days ago



.gitignore

Moved AE programs

10 months ago



README.md

Update README.md

10 months ago



STREAM-code-collaboration-framework.Rproj

Update readme

4 years ago



README.md



Code Collaboration Framework GitHub Repository

Contribute your code!

Code sharing in the 'master' branch is encouraged.

NEW! If you use CoCo Code in your project, please fill in the Gform:

<https://docs.google.com/forms/d/1J6UG3FWTBUmmkSFzGhPeOSnsMkScioK9E-EdHnpsJA/edit>

NEW!!!! Please maintain the following folder structure within SAS/R/Any other programming language. Replicate it for First



Code Collaboration Initiatives: Challenges

- Pride over code or not having the confidence to share
- Requires a mind-set shift from teams to be open to sharing code
- Difficulty picking up code from others e.g. code over complicated or not fully commented so hard to follow
- Code being too study specific or differences between TAs. Non-oncology therapeutic areas are less standardised, but this highlights the need for cross project collaboration

Code Collaboration Initiatives: Successes



- Running monthly competitions to improve engagement
 - Targeting efficacy programs, SDTM mapping, non-standard analysis
- Growing repository of code across different TAs and programming languages
- Many success stories from programmers who have used code, particularly new starters who have a pool of resources

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Code Collaboration Initiatives

A Look to the Future of Code Sharing

A Look to the Future of Code Sharing: Across the industry

- Promotion of open source collaboration across the pharmaceutical industry to develop programming solutions
- A shared repository of packages created by different programmers in the industry that can be used by different companies.
- Increased standardisation with collaborative solutions

A Look to the Future of Code Sharing: Potential Barriers to Success

- Different companies may already have their own solutions (could take more effort to transition to a wider accepted solution)
- Encouraging involvement because it will only be successful if the majority of the industry opt in
- Maintenance of packages and code being contributed

A Look to the Future of Code Sharing: Admiral

- One example of companies co-creating code is Admiral
- Roche and GSK collaboration providing an open source toolkit to facilitate development of ADaM datasets in R
- Shows how companies can work together to provide a joint solution and increases the standardisation of ADaM programming
- Whilst this is an effort led by Roche and GSK they are encouraging further input from those who want to contribute to development and testing



Acknowledgements!

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Doing now what patients need next