

An integrated R Markdown pipeline for the creation and efficient maintenance of technical teaching materials

Thursday 9 December 2021 11:00 (30 minutes)

At the Helmholtz Zentrum München we frequently run courses. Our courses consist of a mix of lectures and hands-on exercise sessions, often requiring the use of statistical programming software, such as R or Python, and exemplary datasets. Lecture slides are prepared as pdf documents, and exercises as both pdf and html format. Each file has a version for the instructor and one for participants. For each course, we therefore must manage multiple files in multiple formats and versions. The manual maintenance of such a high volume of files is impractical, time-consuming, and error-prone. Our solution is an integrated R Markdown pipeline: at the press of a button all the various formats and versions of our files are produced and compressed into a single ZIP-folder ready for distribution.

Preferred time slot length

30 minutes

Intended Audience

Trainers of courses in the field of statistics and programming

Contribution Language

English

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Session Classification: Thursday

Track Classification: Experience exchange