
Pipelines for Software Metadata Conversion and Publication

Tomas Stary^{*†}, Marie Houillon¹, Jochen Klar², and Axel Loewe¹

¹Karlsruhe Institut of Technology – Germany

²Independent Software Developer – Germany

Abstract

Reproducible research requires publication of software and datasets together with appropriate metadata. We present continuous integration pipelines to automatically generate such metadata for software (www.openCARP.org/CI). They are successfully used in the openCARP project and can be readily integrated into other projects. The user maintains only a CodeMeta file, which is a popular metadata standard tailored to research software. From there, further citation files are generated and can serve their purpose during specific phases of the software lifecycle: DataCite for software archiving, BagIt and BagPack for creation of tagged releases, deposition of releases in the RADAR data repository, and synchronisation of documentation files with the project's webpage.

*Speaker

†Corresponding author: tomas.stary@kit.edu