

Bridging the reproducibility gap

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There is increasing demand for reproducibility in scholarly communications. But creating reproducible content can be difficult, particularly for researchers who don't code. And often, 'smart' dynamic documents written in formats such as Rmarkdown and Jupyter Notebooks, have to be converted to 'dumb' static formats for journal submission.

We propose several extensions to JATS that allow for reproducible elements within journal articles. These extensions allow authors to submit reproducible documents and for reproducibility to be maintained throughout the review and production stages.

Stencila allows for "reproducible JATS" to be used within familiar user interfaces and integrated in existing authoring workflows. We'll demo a visual interface that allows WYSIWYG editing of "reproducible JATS" and converters that can be used to import/export from/to existing documents written in Rmarkdown and Jupyter Notebooks.