

liftr: Reproducible Bioinformatics and Statistical Data Analysis with Docker, Rabix, and knitr

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Overview

liftr extends the R Markdown metadata format. It helps you generate Dockerfile for rendering R Markdown documents in Docker containers.

Users can also include and run pre-defined Rabix tools/workflows, then analyze the Rabix output in the containerized R Markdown documents.

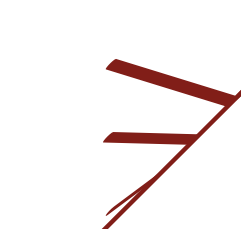
Demo Video



<https://youtu.be/D1-l0Noa3Ho>

Acknowledgements

We thank Dr. Miao Zhu Li at Duke University for testing the package and great suggestions such as the demo video. We also thank the team at Seven Bridges Genomics for supporting the development of this package and valuable inputs.



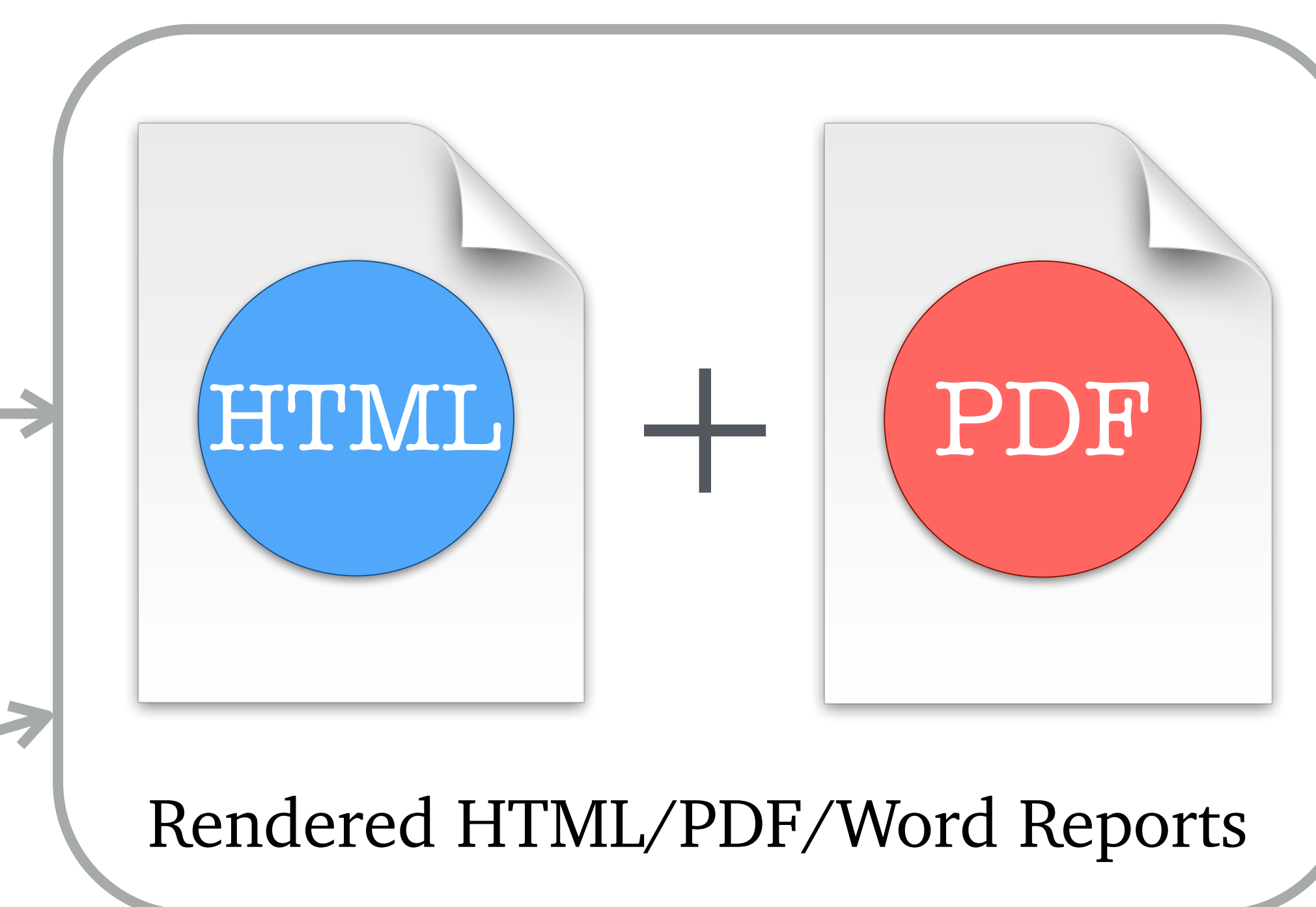
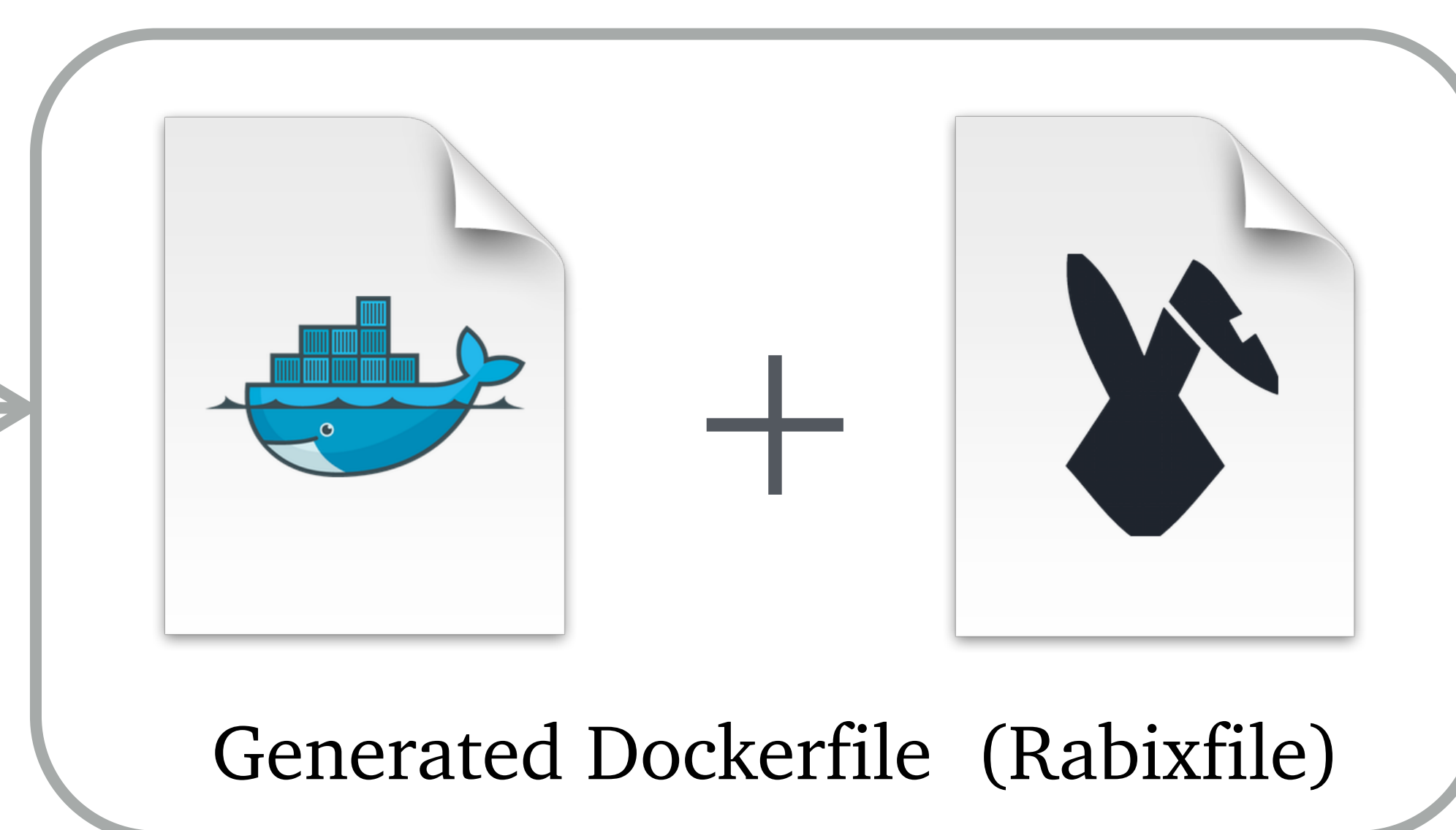
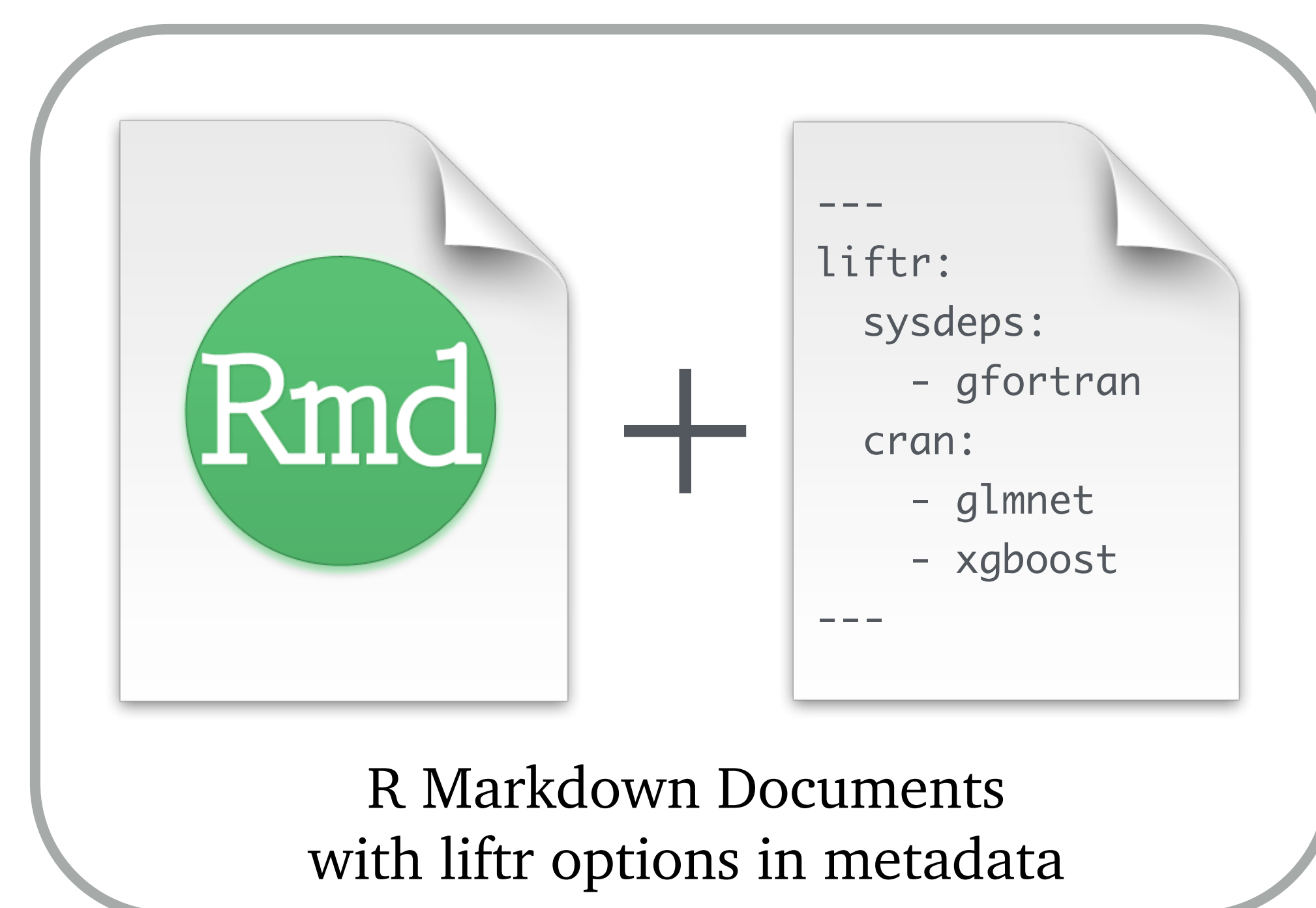
liftr

liftr.me

liftr("foo.Rmd")

render_docker("foo.Rmd")

Read and share!



liftr extends the R Markdown metadata format, introducing additional options for rendering RMD documents with Docker and Rabix.

liftr parses the YAML metadata block in the R Markdown document, and converts them to Dockerfile and Rabix running commands.

liftr will build the Docker image, run the container, and render the document in a system-level reproducible fashion.