xrf-explorerV2

FILE: XRF_ExplorerV2_acceptancetestplan.pdf

General information on the software documentation
version: 2024 October 02

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xrf-explorerV2 is a research software toolkit developed by students at Eindhoven University of Technology (TU/e), for the Van Gogh Museum Amsterdam in a partnership with ASML. The toolkit is intended to be used for the integrated exploration of multimodal images, spectral data, and chemical mappings of a painting. The toolkit is developed to assist in the conservation science practice.

Project
The original prototype (V1) was created by a TU/e master's student from January–September 2023. The current version (V2) was developed by a team of TU/e bachelor students from April–July 2024.

Documentation
Five documentation files were delivered by the development team.
Together they form a comprehensive documentation package:

- XRF_ExplorerV2_userrequirementsdocument.pdf
- XRF_ExplorerV2_softwaredesigndocument.pdf
- XRF_ExplorerV2_acceptancetestplan.pdf
- XRF_ExplorerV2_softwaretransferdocument.pdf
- XRF_ExplorerV2_softwareusermanual.pdf

Acknowledgements
For the development, testing, and documenting of xrf-explorer, test data was provided by the Museum of Modern Art (New York) to the development team. It consisted of images and xrf scanning data of the "Portrait of Joseph Roulin" painting by Vincent van Gogh. Images of this painting are included in some of the documentation files for the purpose of explaining the software usage.

For more detailed information on this painting, including image licenses, we refer to:
https://www.moma.org/collection/works/79105

Software
The xrfexplorerV2 software itself (codebase and code documentation) can be found at the github repository "Olive-Groves/xrf-explorer" (see: https://github.com/olive-groves).