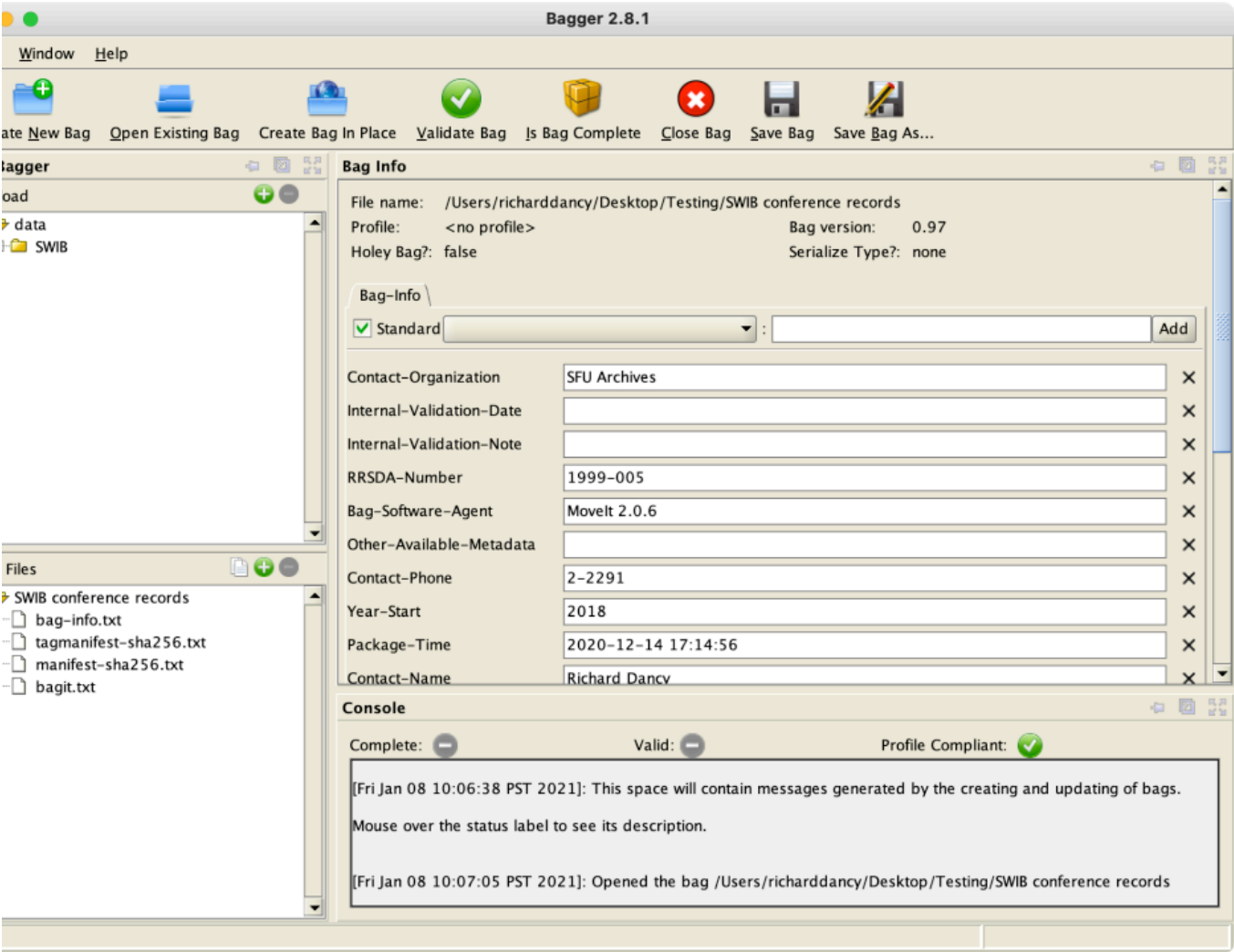




Bagger

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Bagger is open-source, java-based desktop application for creating, editing, and validating Bags – i.e. packages of data files that adhere to the BagIt specification. Bagger was developed by the Library of Congress. The latest version (2.8.1) was released in April 2018 but is no longer actively maintained.

SFU Archives initially used Bagger in its digital transfer workflow to validate transfer packages received and add validation metadata. The Archives had its own preferred Bag-creating packager SFU MoveIt and used Bagger only for validation purposes.

Because Bagger has not been actively updated, the current version validates Bags against BagIt version 0.97 rather than 1.0 (finalized in Oct 2018). Bagger will fail packages that use "1.0" as the BagIt-Version in the bagit.txt file.

In the Fall of 2023, SFU Archives decided to retire SFU MoveIt and now uses DART for both packaging and validation. The documentation below describes Archives' practices pre-2023.

^ Installation

Download the latest release from the [Bagger GitHub page](#) and unzip the file. This will create a **bagger-2.8.1** folder with a number of sub-directories.

- Always keep the sub-directories together with the parent folder.
- The application itself is located at **/bin/bagger**.

You can move the **bagger-2.8.1** folder to – and run Bagger from – any location on your local machine.

- For consistency, Archives staff should store Bagger in their **Applications** folder.

Dependencies:

- You will need to have a **Java Runtime Environment** installed in order to run Bagger.

- If a JRE is not yet installed, the first time you try to run Bagger you will get an error message "Unable to locate a Java Runtime".
- To install, go to the [Java website](#) to download.

^ Configuration

There are no special configuration requirements. It is possible with Bagger to create and load customized metadata templates ("profiles"), but the Archives does not currently use this feature.

^ Usage

To launch Bagger, double-click the bagger file in the **bagger-2.8.1/bin** folder; this will launch the GUI.

Note that this will also typically open a Terminal window and that Terminal may report a warning that "An illegal reflective access operation has occurred".

- This warning can be disregarded, but it is another reason for wishing to move away from use of Bagger.

In the Archives' workflow, an archivist used Bagger both to validate a transfer package and to add validation metadata to the package when validation is successful (i.e. the Archives accepts the transfer for ingest).

To validate a Bag:

- Click the **Open Existing Bag** button and navigate to the transfer package.
- Click the **Is Bag Complete** button to verify that the package adheres to the BagIt structure.

- Click the **Validate Bag** button to verify the checksums of the files in the package.
- For both tests, Bagger will show results (success / fail) in a pop-up dialog box.
- The results are also displayed in the **Console panel** with a green checkmark against Complete and Valid.

To add validation metadata:

- Click the **Save Bag As** button.
- In the dialog box, use the **Browse** button to specify the new Bag's location and name.
- Typically do not serialize the Bag (i.e. save a zip file).
- The Archives has no use case for creating a "holey bag".
- Typically use **SH256** for the manifest algorithms.

^ Links

For more information see:

- Library of Congress site: <https://github.com/LibraryOfCongress/bagger>