ADAMS

Advanced **D**ata mining **A**nd **M**achine learning **S**ystem

Module: adams-excel



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Contents

1 Introduction **7**

2 Flow **9**

3 Tools **11**

Bibliography **13**

List of Figures

2.1 Flow for loading multiple sheets of a MS Excel file. 9
2.2 The worksheets loaded from the MS Excel file. 10

3.1 Viewer for spreadsheet files. 11

Chapter 1

Introduction

The *excel* module extends the spreadsheet capabilities of ADAMS by read and write support for Microsoft Excel files. This is possible thanks to the Apache POI library[2] for reading Microsoft Office documents and the fastexcel library[3].

Chapter 2

Flow

The additional read and write support is immediately available in the *SpreadSheetReader* and *SpreadSheetWriter* actors. Figures 2.1 and 2.2 display a flow[1] and its associated output that loads multiple sheets from a MS Excel file.

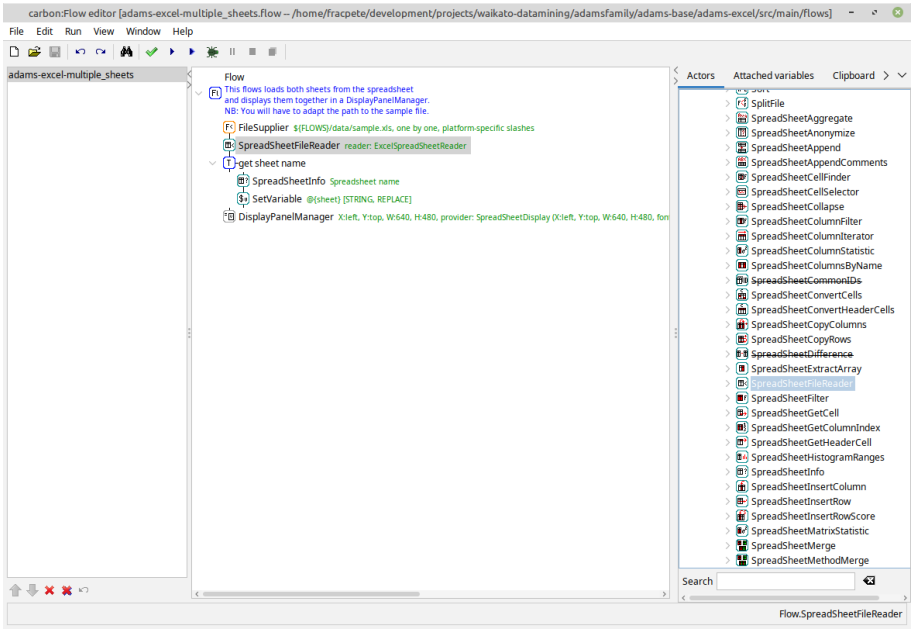


Figure 2.1: Flow for loading multiple sheets of a MS Excel file.

[1] adams-excel-multiple_sheets.flow

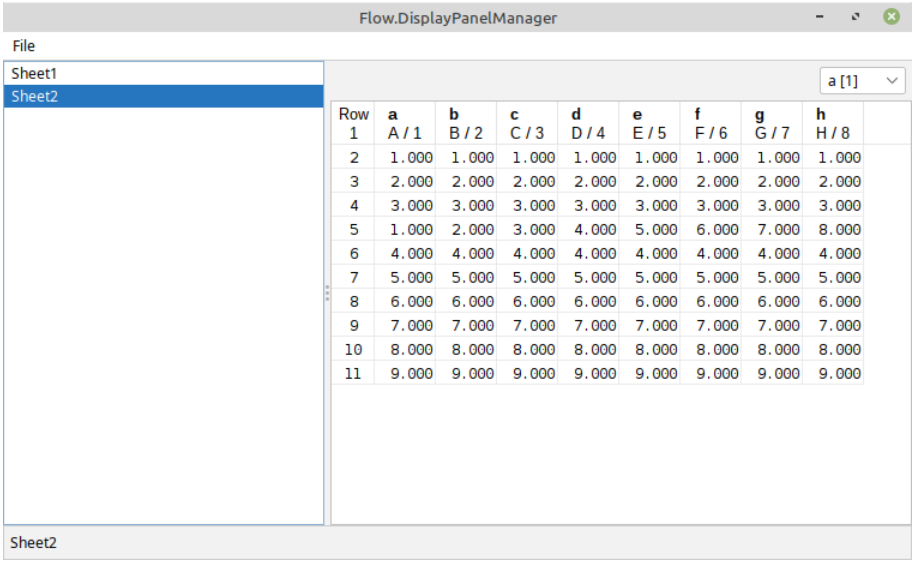


Figure 2.2: The worksheets loaded from the MS Excel file.

Chapter 3

Tools

The *Spreadsheet file viewer* automatically picks up the new file format and allows the user to load MS Excel files. Figure 3.1 shows a screenshot of the viewer with a MS Excel file loaded.

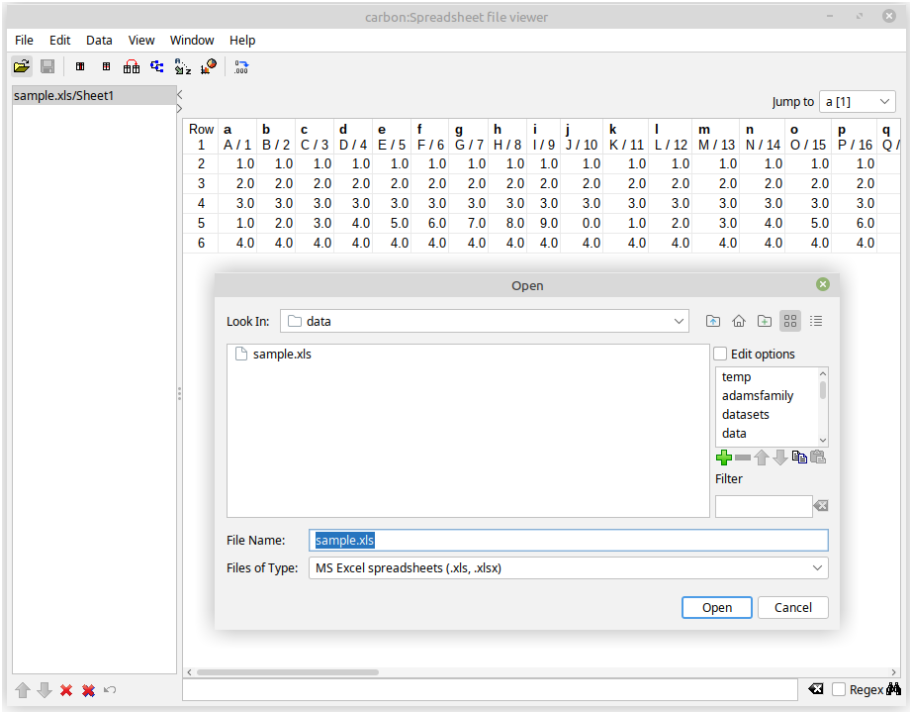


Figure 3.1: Viewer for spreadsheet files.

Bibliography

[1] *ADAMS* – Advanced Data mining and Machine learning System
`https://adams.cms.waikato.ac.nz/`

[2] *Apache POI* – the Java API for Microsoft Documents
`http://poi.apache.org/`

[3] *fastexcel* – Generate and read big Excel files quickly
`https://github.com/dhatim/fastexcel`