

ADAMS

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

Module: adams-excel



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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.

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 flow¹ and its associated output that loads multiple sheets from a MS Excel file.

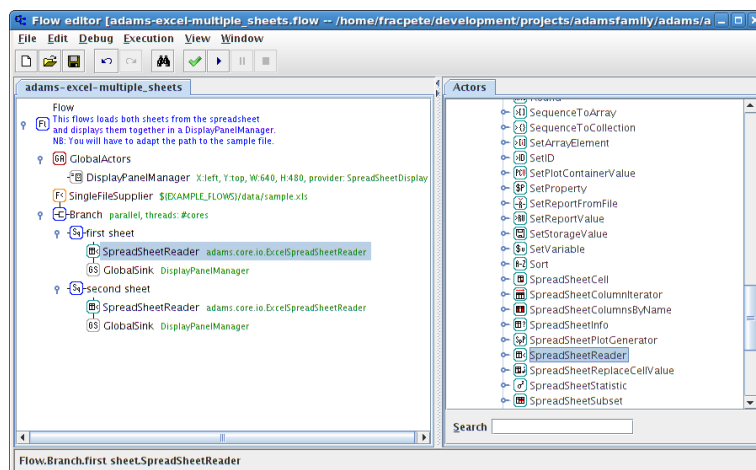
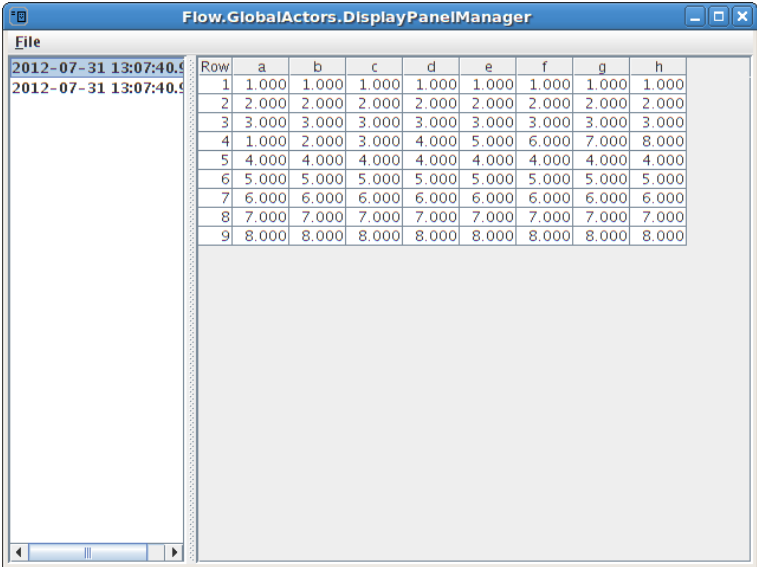


Figure 2.1: Flow for loading multiple sheets of a MS Excel file.

¹adams-excel-multiple_sheets.flow



Row	a	b	c	d	e	f	g	h
1	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000
3	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000
4	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000
5	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
6	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000
7	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000
8	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000
9	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000

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.

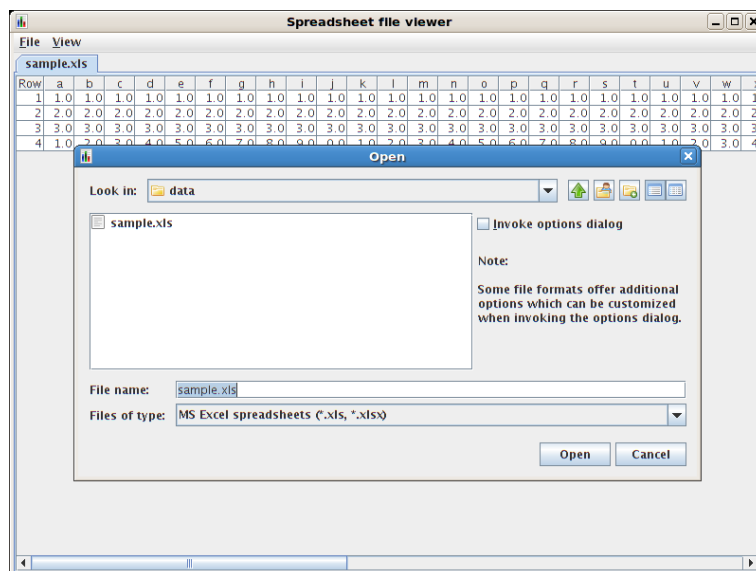


Figure 3.1: Viewer for spreadsheet files.

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/>