

# ADAMS

Advanced Data mining And Machine learning System

Module: adams-odf



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# Chapter 1

## Introduction

The *odf* module extends the spreadsheet capabilities of ADAMS by read and write support for OpenDocument files [2]. This is possible thanks to the jOpenDocument library [3] for reading ODF files.



# 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<sup>1</sup> and its associated output that loads multiple sheets from a ODF file.

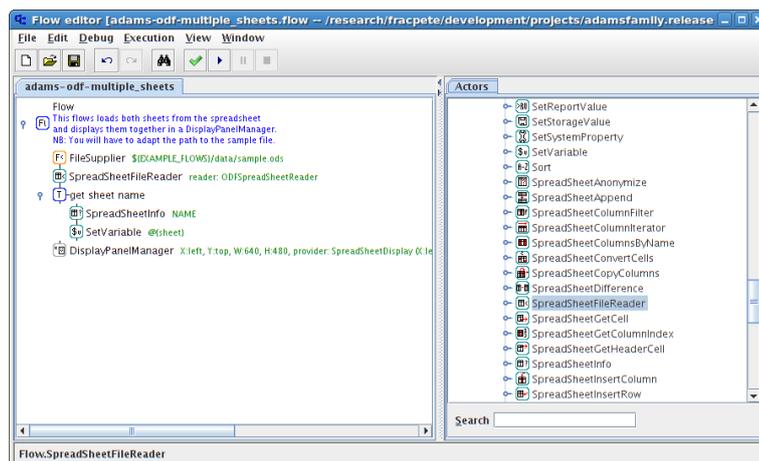
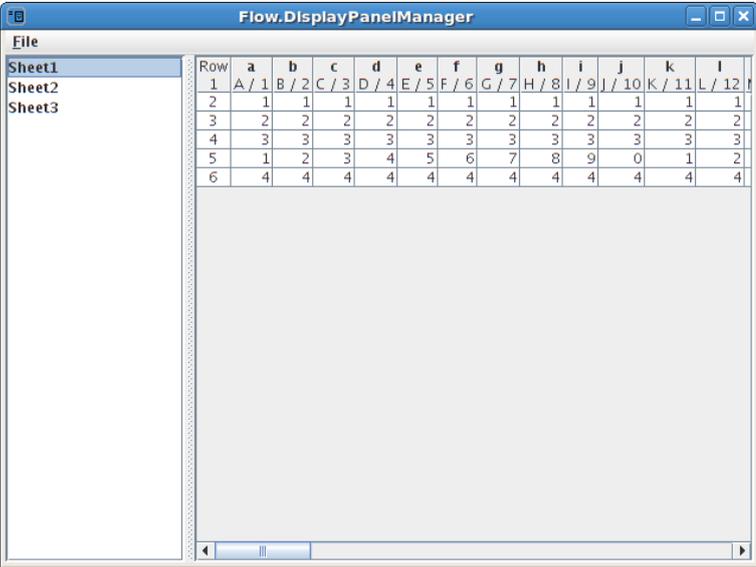


Figure 2.1: Flow for loading multiple sheets of a ODF file.

<sup>1</sup>adams-odf-multiple\_sheets.flow



The screenshot shows a window titled "Flow.DisplayPanelManager" with a menu bar containing "File". Below the menu bar, there are three sheet tabs: "Sheet1", "Sheet2", and "Sheet3". The main area displays a spreadsheet with the following data:

Row	a	b	c	d	e	f	g	h	i	j	k	l
1	A / 1	B / 2	C / 3	D / 4	E / 5	F / 6	G / 7	H / 8	I / 9	J / 10	K / 11	L / 12
2	1	1	1	1	1	1	1	1	1	1	1	1
3	2	2	2	2	2	2	2	2	2	2	2	2
4	3	3	3	3	3	3	3	3	3	3	3	3
5	1	2	3	4	5	6	7	8	9	0	1	2
6	4	4	4	4	4	4	4	4	4	4	4	4

Figure 2.2: The worksheets loaded from the ODF file.

# Chapter 3

# Tools

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

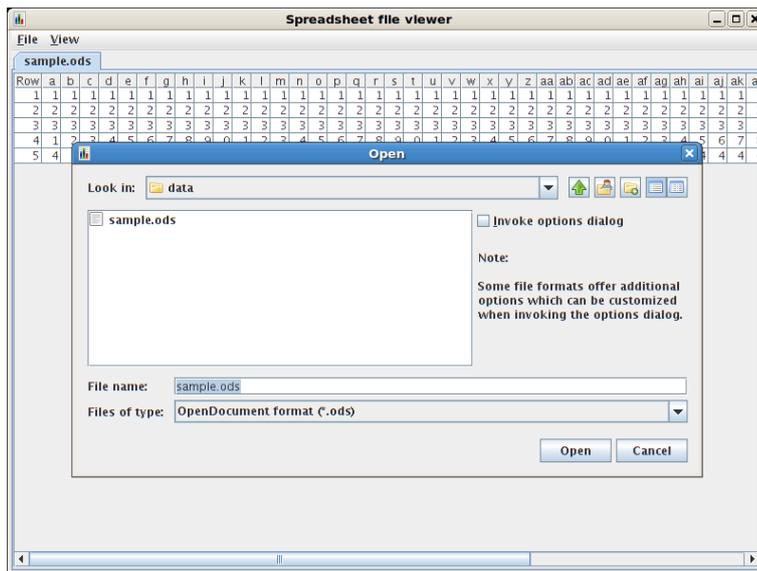


Figure 3.1: Viewer for spreadsheet files.



# Bibliography

- [1] *ADAMS* – Advanced Data mining and Machine learning System  
<https://adams.cms.waikato.ac.nz/>
- [2] *ODF* – Open Document Format  
<http://en.wikipedia.org/wiki/Odf>
- [3] *jOpenDocument* – A pure Java library for OASIS Open Document files manipulation  
<http://www.jopendocument.org/>