

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

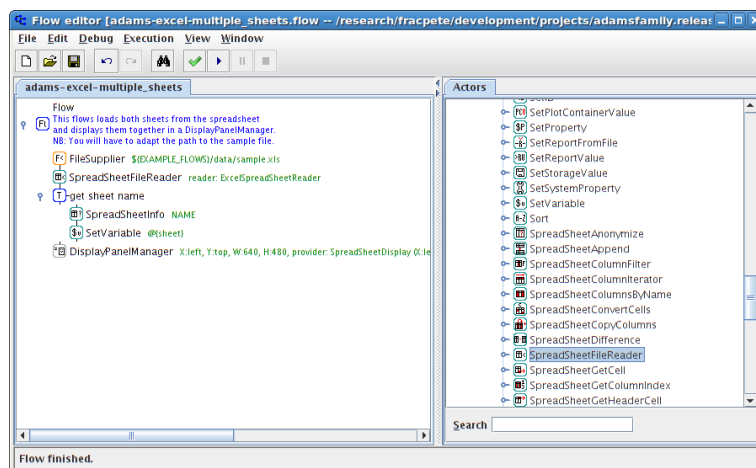


Figure 2.1: Flow for loading multiple sheets of a MS Excel file.

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

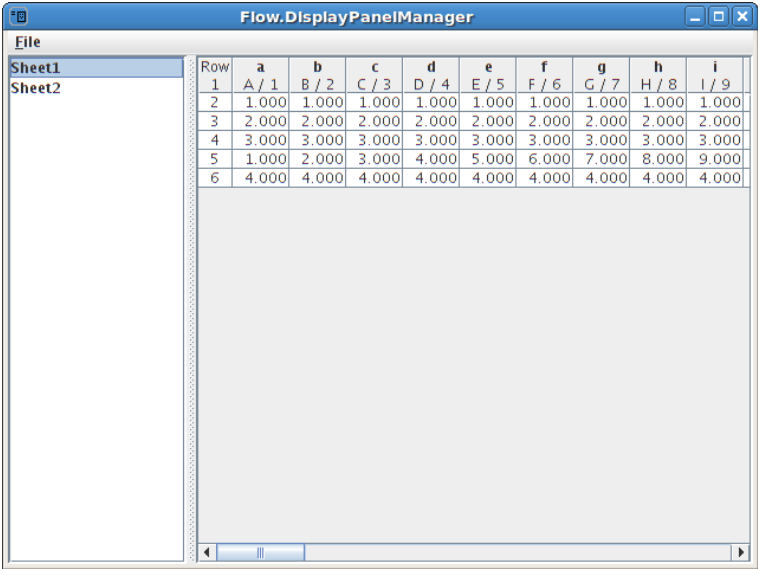


Figure 2.2: The worksheets loaded from the MS Excel file.

## 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.

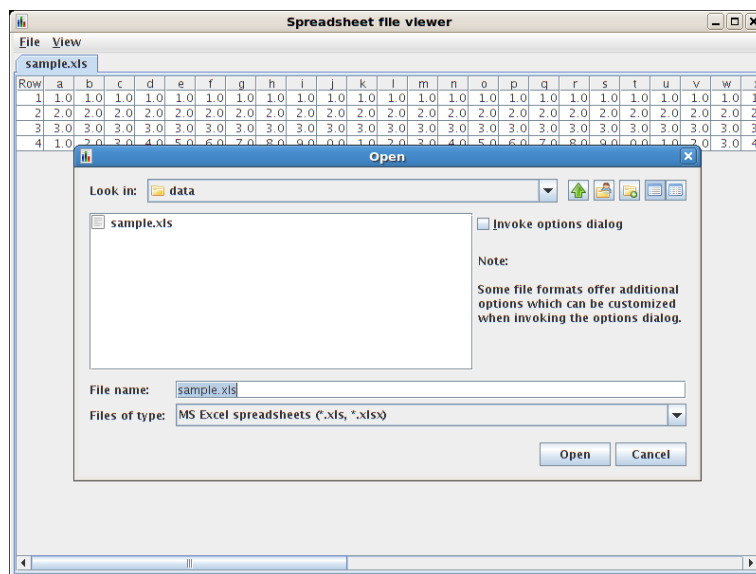


Figure 3.1: Viewer for spreadsheet files.



# 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/>