



Salsa J

Summary

Short Description: This document explain how to do photometry using SalsaJ

Language:English

Suitable for age: 15-18 years

Key words: Photometry, SalsaJ, variable stars, Supernovae;

Format: .Doc

Link: <http://www.euhou.net/index.php/salsaj-software-mainmenu-9>

Instructions

1. Download and install SalsaJ

SalsaJ means “Such A Lovely Software for Astronomy J” is a software dedicated to image handling and analysis in the classroom. It is particularly adapted to professional astronomy images. It is written in Java and can be used on several platforms for which there is a Java environment. It is based on [ImageJ](#), a free Java software created by Wayne Rasband (Research Service Branch, National Institute of Mental health, Bethesda, Maryland, USA).

Using the SalsaJ software, students and teachers can make the Universe their laboratory. **The hands-on exercises provided on the SalsaJ webpage are designed to allow students to use real astronomical data to find a new planet, explore volcanoes on the moons of Jupiter, classify stars, or weigh a galaxy!** Each exercise comes complete with real astronomical data and detailed instructions for how to display, analyse, and interpret the data using the SalsaJ.



This powerful piece of software is completely free, and is multi-platform and multi-lingual (languages supported include English, French, Spanish, Italian, Polish, Greek, Portuguese, Swedish, Northern Sami, Arabic, and Chinese), and it can be downloaded at <http://www.euhou.net/index.php/salsaj-software-mainmenu-9/download-mainmenu-10> .

At your convenience, a single package containing all the data and files (but not the guides!) needed for the following exercises is available here : [euhou_exercises_files.zip - 25.28 Mb.](#)

The screenshot shows the EU-HOU website interface. On the left is a vertical navigation menu with items like 'Home', 'EU-HOU SRT Network', 'What is EU-HOU?', 'Exercises', 'SalsaJ software', 'Download', 'Manual SalsaJ 2', 'Manual SalsaJ 1.4', 'Experimental SalsaJ Manual', 'Facebook', 'News', 'Other live observations', 'Training sessions', 'Radio Exhibit', 'CD Rom', and 'Newsletter'. The 'SalsaJ software' section is highlighted. The main content area is titled 'Manual SalsaJ 2' and contains the text: 'Please refer to the following video tutorials to learn how to use SalsaJ 2'. Below this is a section 'How to open a file:' followed by a video player showing a window titled 'SalsaJ' with a play button in the center.

On the same site we can find a variety of videos that explain how to carry out certain tasks with this software. We also have files available that can be used to carry out didactic activities using this tool.

The screenshot shows the 'The SalsaJ 1.4 software' page. On the left is the same navigation menu as in the previous screenshot. The main content area has the title 'The SalsaJ 1.4 software' and a logo consisting of a blue 'S' with a yellow and orange sphere in the center. Below the logo, it lists the authors: 'Jérôme Lucas, Olivier Marco, Thomas Boudier LERMA' and the affiliation: 'Université Pierre et Marie Curie'. To the right is a table of contents with items like '* Introduction', '* Basic Concepts', '* Installation', '* Menu Command', '- File', '- Edit', '- Image', '- Operations', '- Analyse', '- Plugins', '- Windows', '* Tools', '* Virtual Observatories', and '* Keyboard Shortcuts'. At the bottom, there are four bullet points: 'Quick overview of this software (version 1.4)', 'A web page manual for creating Macros with SalsaJ 1.4 can be found here', 'A PDF manual for creating macros with SalsaJ 1.4 can be found here', and 'A list of existing macros for SalsaJ can be found here'.