

A banner image showing a sequence of celestial bodies from left to right: a blue planet (Earth), a brown planet (Mars), a brown planet (Mars), a white planet (Jupiter), and a brown planet (Mars). The text "Planetary Data System" is overlaid in white on the right side.

Planetary Data System

PDS4 Viewer and Python Library

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PDS4 Viewer

- A read-in and visualization tool for PDS4 data
- Available stand-alone on Windows, Mac and Linux
- Supports all* PDS4 data (images, spectra, arrays, tables)

Able to display 2-D and 3-D images and spectra, allowing for zoom, rotation, pan, axis-inversion, colormap manipulation, scaling, etc.

Able to display PDS4 character, delimited and binary data tables, including arbitrarily nested GROUP fields (sub-tables).

Allows plotting PDS4 table columns against each other, including error bars for uncertainties.

Consistent interface allows for easy access to meta-data (such as object labels, display settings and spectral characteristics, etc.)

PDS4 Viewer Demo ...

Python PDS4 Tools

- Written with both scientists and software developers in mind
- Supports all* PDS4 observational data (images, spectra, arrays, tables)
- Provides both data and label meta-data in convenient formats

Python PDS4 Tools

- Compatible with Python 2.6+ and 3.3+
- Has only one dependency (NumPy)
- Completely cross-platform

THANK YOU FOR YOUR ATTENTION!

<http://tinyurl.com/pds4-viewer>

<http://tinyurl.com/pds4-reader>

More details in talk at 3:30 PM today in Agassiz Room.