Jet Propulsion Laboratory
California Institute of Technology

PDS Tools Status

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IPDA Steering Committee
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Harvest Tool Upgrade

- Updated to interface with the new Registry/Search Service
- Updated to ingest full product labels into new Registry/Search Service

Validate Tool Updates

- New Features / Updates
  - PDS-603: Added initial support for spot checking of data content validation.
  - PDS-605: Checking Logical Identifiers of primary members.
  - PDS-606: Check for existence of local identifiers referenced in a label.
  - PDS-678: Added validation of Context Product references in a label.
  - PDS-777: Verify that the member status field in Collection inventory tables is either “P” or “S”.
  - PDS-793: Added support ASCII_BibCode data types due to CCB-235.
  - PDS-604: Re-added capability to check for un-labeled files in a bundle or collection.
  - PDS-701: Updated field format validation behavior due to CCB-214.

- Bug fixes
  - PDS-723: Fixed to support schematron rules that use Xpath’s document-uri() function.

https://pds-engineering.jpl.nasa.gov/development/pds4/9.1.0/preparation/validate/

Transform Tool Updates

- Add Array_3D_Image to FITS transformation
- Provide Beta version of Transform Tool as a Web Service

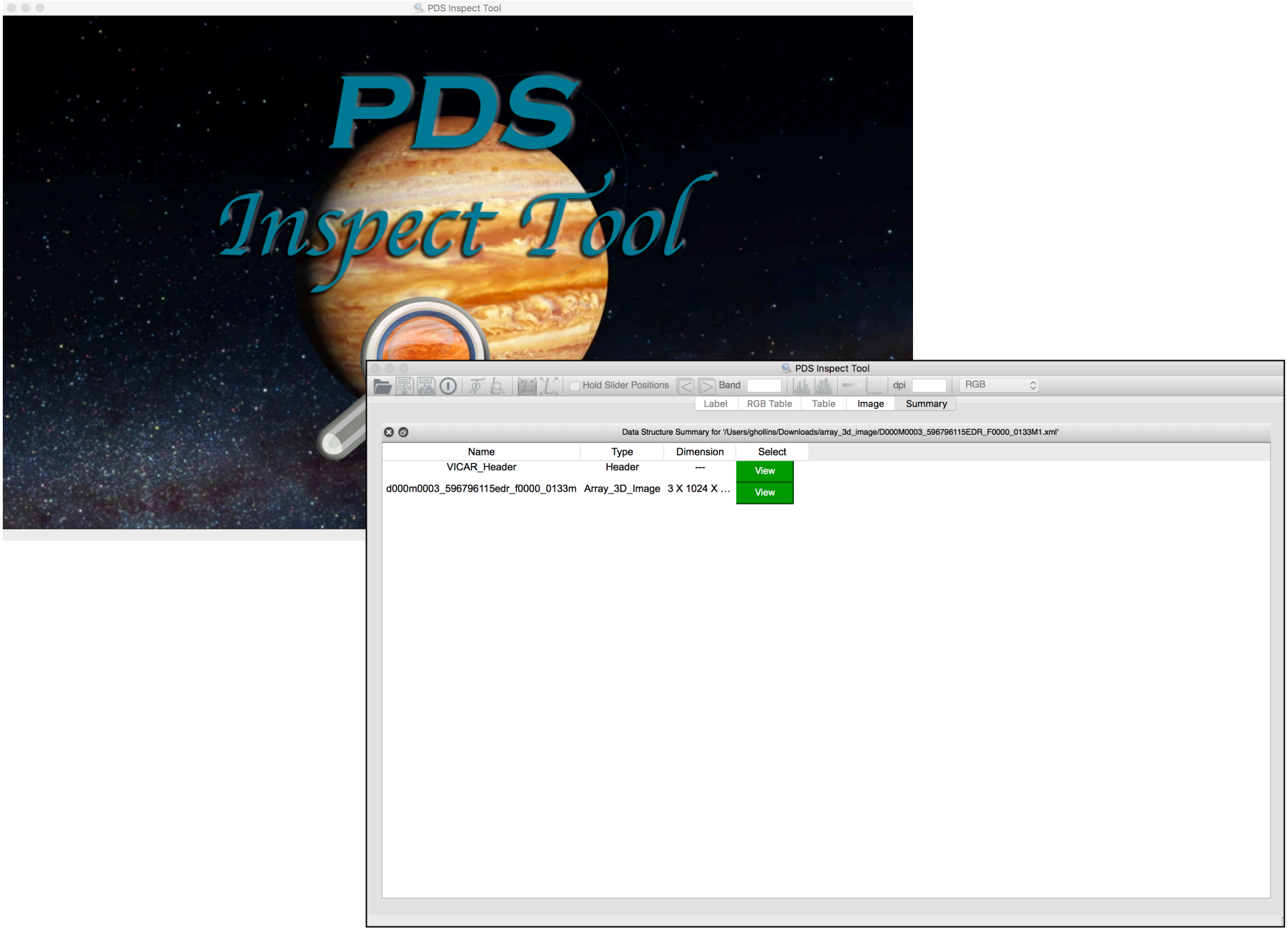
https://pds-engineering.jpl.nasa.gov/development/pds4/9.1.0/preparation/transform/

Inspect Tool

- Added initial support for visualizing PDS3 products
  - PDS-613: PDS3 ASCII Tables
  - PDS-654: PDS3 2-D Images

- Approved for Open Source and active development has been moved to Github.
  - https://github.com/NASA-PDS-Incubator/pds-inspect-tool

- Built on top of SBN Python PDS4 Tools
  - https://github.com/Small-Bodies-Node/pds4_tools


PDS Inspect Tool
PDS
Inspect Tool
PDS Inspect Tool
Hold Slider Positions
Band
dpi
RGB
Label
RGB Table
Table
Image
Summary
Data Structure Summary for '/Users/ghollins/Downloads/array_3d_image/D000M0003_596796115EDR_F0000_0133M1.xml'
Name
Type
Dimension
Select
VICAR_Header
Header

View
d000m0003_596796115edr_f0000_0133m
Array_3D_Image
3 X 1024 X ...
View

PDS Inspect Tool

Hold Slider Positions | Channels | dpi 72.0 | RGB

Label | RGB Table | Table | Image | Summary

d000m0003_596796115edr_f0000_0133m

	1	2	3	4	5	6	7	8	9	10	11	12
1	130	152	136	129	137	128	134	129	136	126	135	129
2	65	0	64	0	70	0	69	0	69	1	69	0
3	23	0	0	0	16	2	15	1	0	0	21	0
4	50	54	52	54	54	53	51	50	47	50	54	54
5	52	51	53	53	55	53	51	50	49	49	51	53
6	51	54	54	53	55	53	51	52	51	53	53	53
7	53	54	54	56	55	55	53	52	53	50	50	49
8	51	53	55	55	55	54	55	54	51	51	49	48
9	50	51	52	54	52	52	52	51	54	51	51	50
10	46	52	51	51	50	53	53	53	55	53	54	53
11	48	51	53	51	52	54	51	52	52	54	52	52
12	48	51	51	53	54	54	52	52	51	50	53	53
13	49	50	53	50								
14	45	52	50	49								
15	48	50	52	51								
16	45	49	48	50								
17	47	49	47	50								
18	47	49	48	48								
19	50	50	51	48								
20	48	52	49	49								

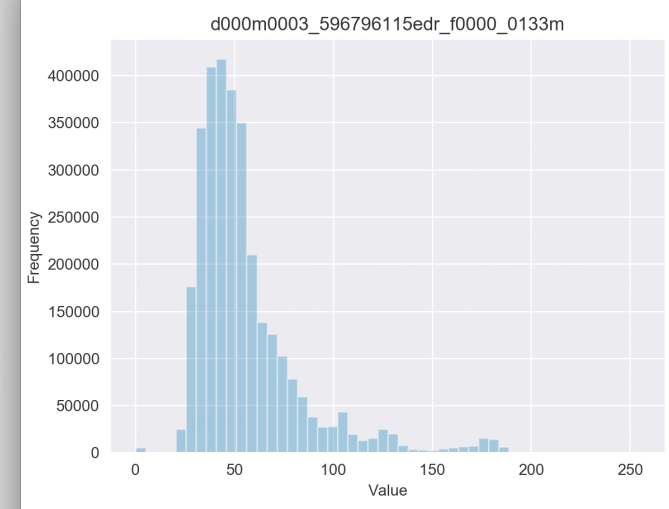
PDS Inspect Tool

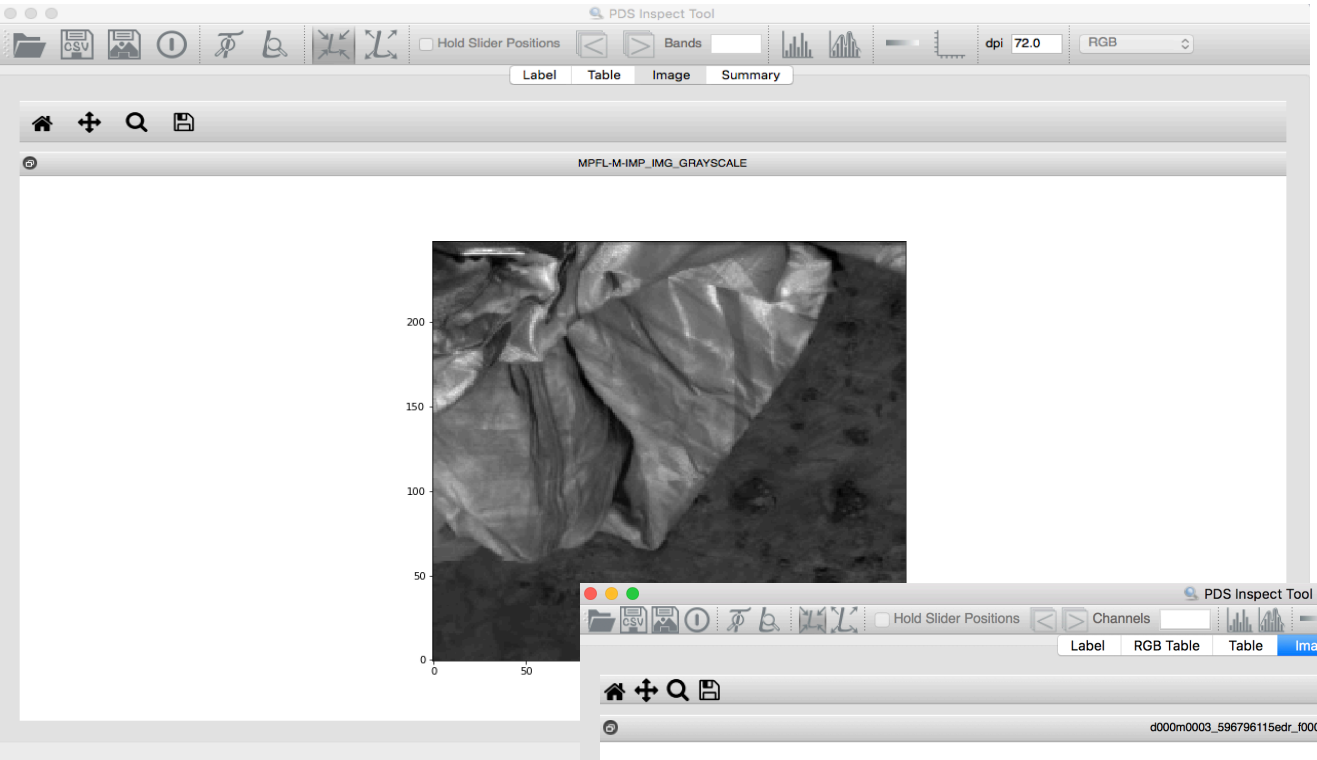
Hold Slider Positions | Channels | dpi 72.0 | RGB

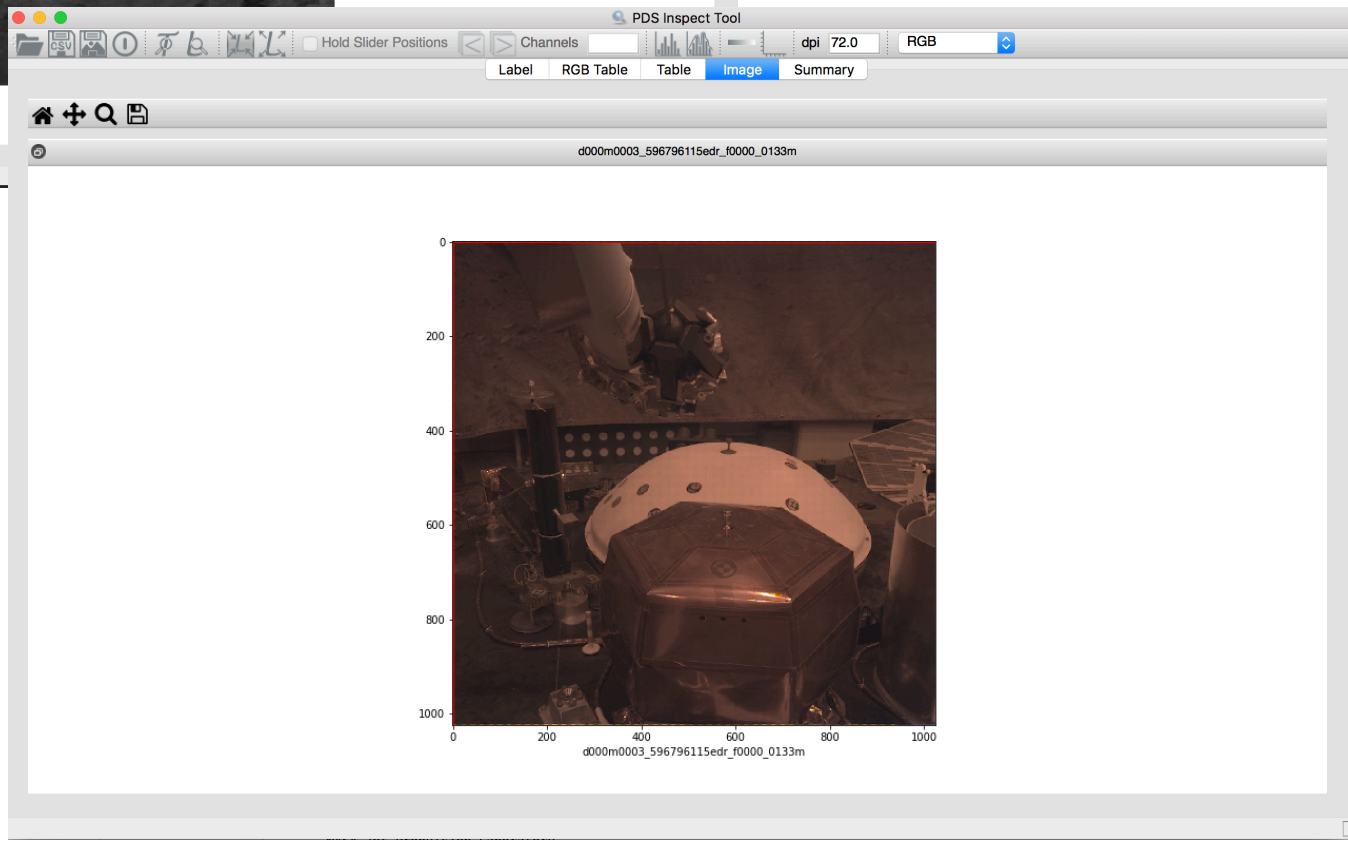
Label | RGB Table | Table | Image | Summary

Red | Green | Blue

Figure 1




PDS Inspect Tool
Hold Slider Positions
Bands
dpi
72.0
RGB
Label
Table
Image
Summary
MPFL-M-IMP_IMG_GRAYSCALE
200
150
100
50
0
0
50


PDS Inspect Tool
Hold Slider Positions
Channels
dpi
72.0
RGB
Label
RGB Table
Table
Image
Summary
d000m0003_596796115edr_f0000_0133m
0
200
400
600
800
1000
0
200
400
600
800
1000
d000m0003_596796115edr_f0000_0133m

FY19-20 PLANS

Planned Tool Upgrades

- Validate
  - Add spot checking of content validation (skip every nth file)
  - Add Context Collection validation rules
    - Verify that it is referenced as a secondary collection by the parent bundle
    - Verify that members of the collection are specified as secondary products
  - Other enhancements to be determined by TWG prioritized tasks
  - Open source onto Github
- Transform
  - Transform Tool Web Service updates
  - Future transformations to be determined by TWG
  - Open source to Github
- Generate
  - Rename
  - Open source to Github

Questions/Comments

Backup