

# va-t6-tutorials

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## Y-4 tutorials (towards sustainability)

Year-4 tutorials need to be checked, simplified, consolidated as needed. The branch "[y4tutorials](#)" on the [VESPA Tutorial GitHub](#) repo is going to contain them. Eventually, it will substitute the "master" branch by project end

## Tutorials with high-priority re-structuring

More meaningful renaming possible, too.

- Surface
  - Crism + surface data
  - Analogues
  - ...
- Atmosphere
- Plasma

## VESPA finalized tutorials

[See public web site](#)

## VESPA-Hosted tutorials

(links to github)

- [Aladin & planetary surfaces](#) use case, in progress
- [More Aladin / surface use cases](#), in progress (this and pages below)
- [APIS](#)
- [CRISM cubes in TOPCAT and Aladin](#)
- [Atmospheric profiles](#)
- [Connection of HELIO with AMDA and 3Dview](#)
- [Exoplanets](#)
- [ExPRES](#)
- [EPN-TAP services: Using TopCat as a client](#)
- [EPN-TAP services: VIRTIS-VENUS EXPRESS](#)
- [Cassini Titan fly-by](#)
- [Magnetospheric region identification with AMDA and TopCat](#)
- [Mars Global Surveyor plasma data compared with models](#)
- [Use case: mapping sparse spatial data with TOPCAT](#)

## VIDEO Tutorials

[Vespa video tutorials on line](#)

[Tracking asteroids](#)  
[Predicting Solar Wind Disturbances arrival times at planets](#)  
[Martian induced magnetosphere](#)  
[Auroral processes on Saturn](#)  
[Exploring exoplanets](#)  
[Mars, evidence of an O<sup>+</sup> ions "plume"](#)  
[Analyzing Pluto's surface](#)  
[IMPEX Tutorial Video](#)

[GIS VESPA Tutorial + text](#)

## External tutorials (linked)

- [IMPEX - Mainpage](#)
  - [CCMC-IMPEX Connections Demonstrator](#)
  - [Hybrid Models Demonstrators](#)
  - [IMPEX Portal User Manual](#)

- [IMPEX Tutorial for AMDA & 3DView](#)
- [SINP Paraboloid Magnetospheric Model Demonstrator](#)

## To do or nice to have

- Interfacing IDL / GDL with VO environment: how to read / write VOTable, use of SSW library, SAMP access (to be tested), implementation of java EPN-TAP library?  
Use cases: ICA on spectral cube + display in Aladin (or APERICubes?); Multumesc on single spectrum, returns VOTable (bands location & width), to be handled in TOPCAT or CASSIS
- Same with python