

DIY: Process Your Own Hubble Images

Learn to make your own beautiful images of the universe in 5 easy steps!

Step One – Download Hubble images and free software

Hubble Legacy website for Hubble Images: <https://hla.stsci.edu/>

FITS Liberator website: https://www.spacetelescope.org/projects/fits_liberator/

SAOImage DS9 website: <https://sites.google.com/cfa.harvard.edu/saoimageds9/home>

GIMP website: <https://www.gimp.org/>

- Download free FITS Liberator software: 19:54
 - Or download and use free SAOImage DS9 software: 34:04
- Download Hubble Images: 21:15
- Download free GIMP software: 25:38

Step Two – Convert Hubble .FITS files to .TIF files

- Bring Hubble images into FITS liberator: 22:26
- “Stretch” the image so it is visible: 22:59
- Refine the image using the histogram: 23:25
- Save the image as a .TIF file: 23:59

Step Three – Process your image in GIMP

- Bring images into GIMP: 26:01
- Color Code the Image Names: 26:26
- Set project to work in RGB mode: 26:57
- Convert Each Image to Respective Color: 27:13
- Blend the Layers to Make a Color Image: 28:47
- Use Curves to Adjust the Contrast and Brightness: 30:01

Step Four – Output your image

- Saving Your Project: 31:21
- Exporting Your Image: 31:43

Step Five – Share your image with ASC!

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