color_image

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1 Creating color image for NGC 3201

Written by Evgenii N.

I use DS9 to make a false color image of NGC 3201, shown on Fig. 231.

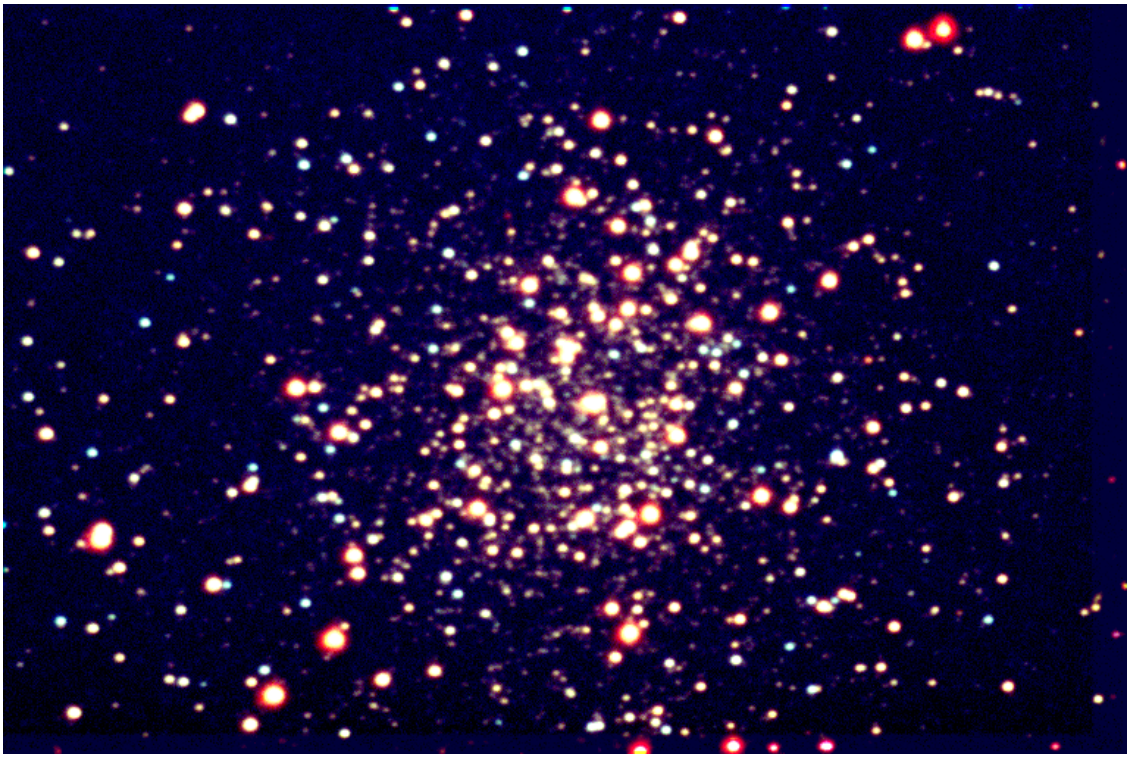

Figure 231: False color image of NGC 3201 made in DS9 from I, V and B images.

1.1 How I made a color image in DS9

- Frame > RGB.
- In the small RGB panel, select “Red”, as shown in Fig. 232.

Figure 232: RGB panel in DS 9.

- File > Open > Select `code/050_scaling_and_combining/march_09_2018_stacked/NGC_3201_I_median_6`
- In the small RGB panel, select "Green", as shown in Fig. 232.
- File > Open > Select `code/050_scaling_and_combining/march_09_2018_stacked/NGC_3201_V_median_6`
- In the small RGB panel, select "Blue", as shown in Fig. 232.
- File > Open > Select `code/050_scaling_and_combining/march_09_2018_stacked/NGC_3201_B_median_6`

1.1.1 Adjusting brightness of RGB channels

Now you can see a color image. I fine-tuned the brightness of each channel separately. For example, to change Red channel:

- Select "Red" on RGB pannel.
- Click Scale button, select Log and "min max". Using two-finger swipe on track pad (On MacBook Pro): swipe left-right to change brightness, switpe up-down to change contrast.

1.1.2 Save image as PNG

When you are happy with color, save the image with File > Export > PNG menu.

1.2 View from a spaceship view

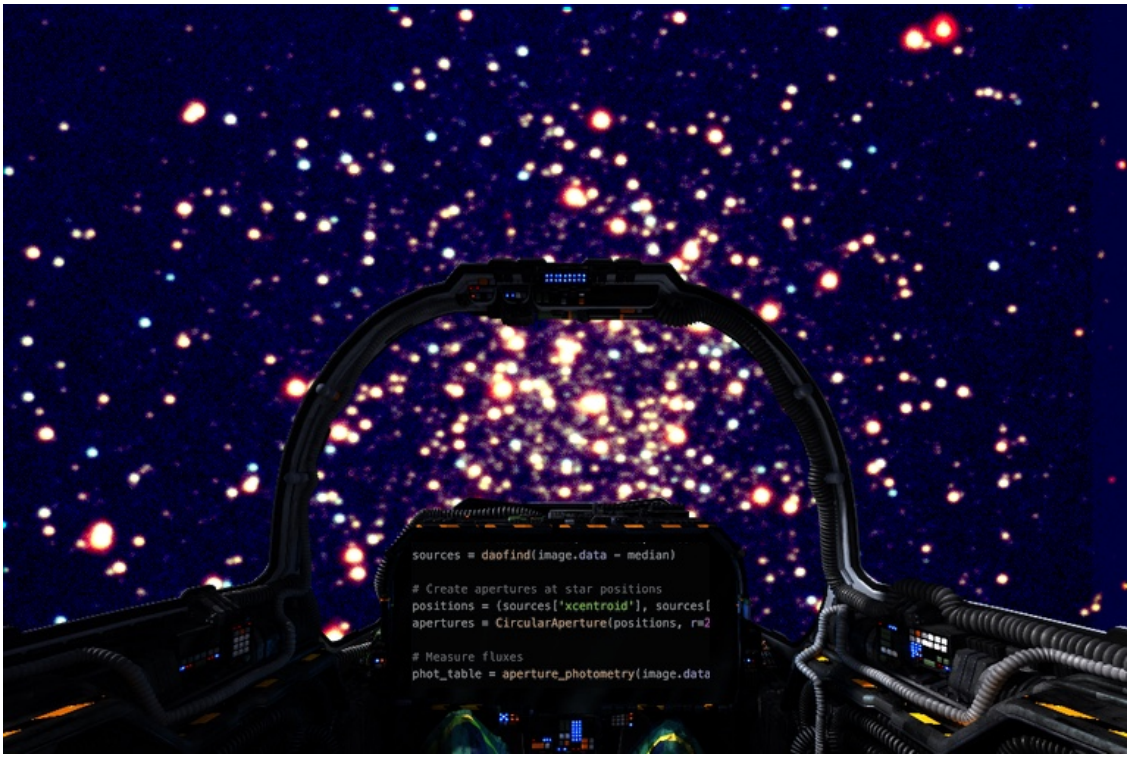

Figure 323: Image of the galaxy from a spaceship. Cockpit image source: https://www.pngguru.com/free-transparent-background-png-clipart-nprbv

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