

Reproducibility test — each prompt is run 10 times, and the success rate is the ratio of successes over tries.

Supplementary Video	Prompts:	Dataset to preload:	Success rate:
Prompt 1	Segment the cell nuclei present in the selected layer. Once done, count the number of segmented nuclei and measure the average segment area.	Load the 'Human Mitosis' built-in napari sample dataset.	80%
Prompt 2	Convert the selected RGB image to grayscale using human-perception-based weights. Then, apply a light Gaussian blur of sigma 1.5 to the resulting grayscale image. Finally, create a new RGB image that visualizes the gradient of this grayscale image: the hue is proportional to the angle of the gradient vector at each pixel, and the luminance is proportional to the magnitude of the gradient.	Load the 'Astronaut' RGB image.	90%
Prompt 3	Please create a widget that takes a 2D image as input and splits it into $k \times k$ tiles, where k is a parameter in the range [4, 256]; snap this parameter to the closest common divisor of both x and y dimensions. For each tile, compute the entropy. The output should be an image of the same dimensions as the input, which is obtained by upscaling the image of tile entropies (one pixel per tile) using a parameterizable interpolation method. The tile size should be a parameter of the widget.	Load the camera image.	80%
Prompt 4	Please write a widget that color projects a 3D stack along the Z axis. The hue of the projected pixel is proportional to the depth of the voxel of max intensity, the luminance is proportional to that max intensity, and the saturation is proportional to the contrast between the max intensity and the average intensity.	Load the 'Cells (3D + 2C)' built-in napari sample dataset. Keep the nuclei channel	100%
Prompt 5	Make a widget to rotate the hue of an RGB image and adjust the gamma for the luminance and the gamma for saturation. The default for the angle and gamma values is 1.0. The range of the gamma values is: [0.01, 10].	Load the 'Astronaut' RGB image.	100%
Average			90%

All prompts were run with default Omega settings and model 'gpt-4-0125-preview'.