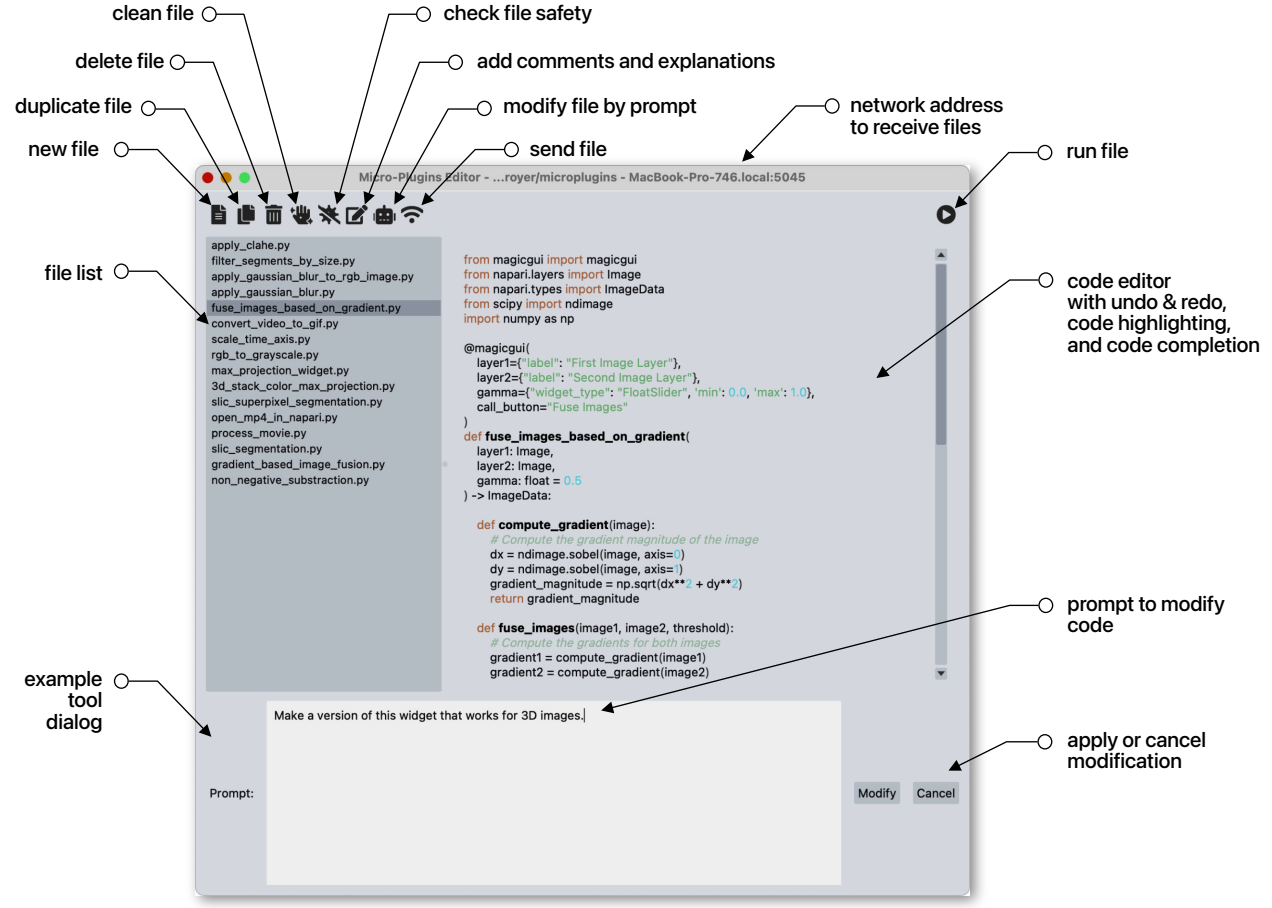
clean file
check file safety
delete file
add comments and explanations
duplicate file
modify file by prompt
network address to receive files
new file
send file
run file
Micro-Plugins Editor - ...royer/microplugins - MacBook-Pro-746.local:5045
file list
apply_clahe.py
filter_segments_by_size.py
apply_gaussian_blur_to_rgb_image.py
apply_gaussian_blur.py
fuse_images_based_on_gradient.py
convert_video_to_gif.py
scale_time_axis.py
rgb_to_grayscale.py
max_projection_widget.py
3d_stack_color_max_projection.py
slic_superpixel_segmentation.py
open_mp4_in_napari.py
process_movie.py
slic_segmentation.py
gradient_based_image_fusion.py
non_negative_substraction.py
code editor with undo & redo, code highlighting, and code completion
from magicgui import magicgui
from napari.layers import Image
from napari.types import ImageData
from scipy import ndimage
import numpy as np
@magicgui(
layer1={"label": "First Image Layer"},
layer2={"label": "Second Image Layer"},
gamma={"widget_type": "FloatSlider", 'min': 0.0, 'max': 1.0},
call_button="Fuse Images"
)
def fuse_images_based_on_gradient(
layer1: Image,
layer2: Image,
gamma: float = 0.5
) -> ImageData:
def compute_gradient(image):
# Compute the gradient magnitude of the image
dx = ndimage.sobel(image, axis=0)
dy = ndimage.sobel(image, axis=1)
gradient_magnitude = np.sqrt(dx**2 + dy**2)
return gradient_magnitude
def fuse_images(image1, image2, threshold):
# Compute the gradients for both images
gradient1 = compute_gradient(image1)
gradient2 = compute_gradient(image2)
prompt to modify code
example tool dialog
Make a version of this widget that works for 3D images.
Prompt:
apply or cancel modification
Modify
Cancel