CountStarsInFolder.ijm
By Leigh Henderson

Purpose: This ImageJ macro counts the stars in multiple images of the night time sky.

Instructions for use:
1. Save all images into one folder (aka. a "directory"). Do not place any other files into this folder.
2. Plugins > Macros > Open. Open CountStarsInFolder.ijm.
3. Click on the .ijm window. Macros > Run macro.
4. A dialogue box will open. Select the folder in which your images are stored.
5. A second dialogue box will open. Select a different folder in which thresholded images will be placed.
6. The macro will run. Star counts will appear in the Summary window.

```
dirInput = getDirectory("Choose  Directory ");
dirOutput = getDirectory("Choose  Directory ");
list = getFileList(dirInput);

setBatchMode(true);
for (i=0;i<list.length;i++) {
  open(dirInput+ list[i]);

  run("8-bit");
  setAutoThreshold("Intermodes dark");
  //run("Threshold...");
  //setThreshold(123, 255);
  setOption("BlackBackground", false);
  run("Convert to Mask");
  run("Analyze Particles...", "  show=Outlines exclude clear summarize");

  saveAs("Jpeg", dirOutput + File.nameWithoutExtension + "_Threshold");
  close();

}
```