

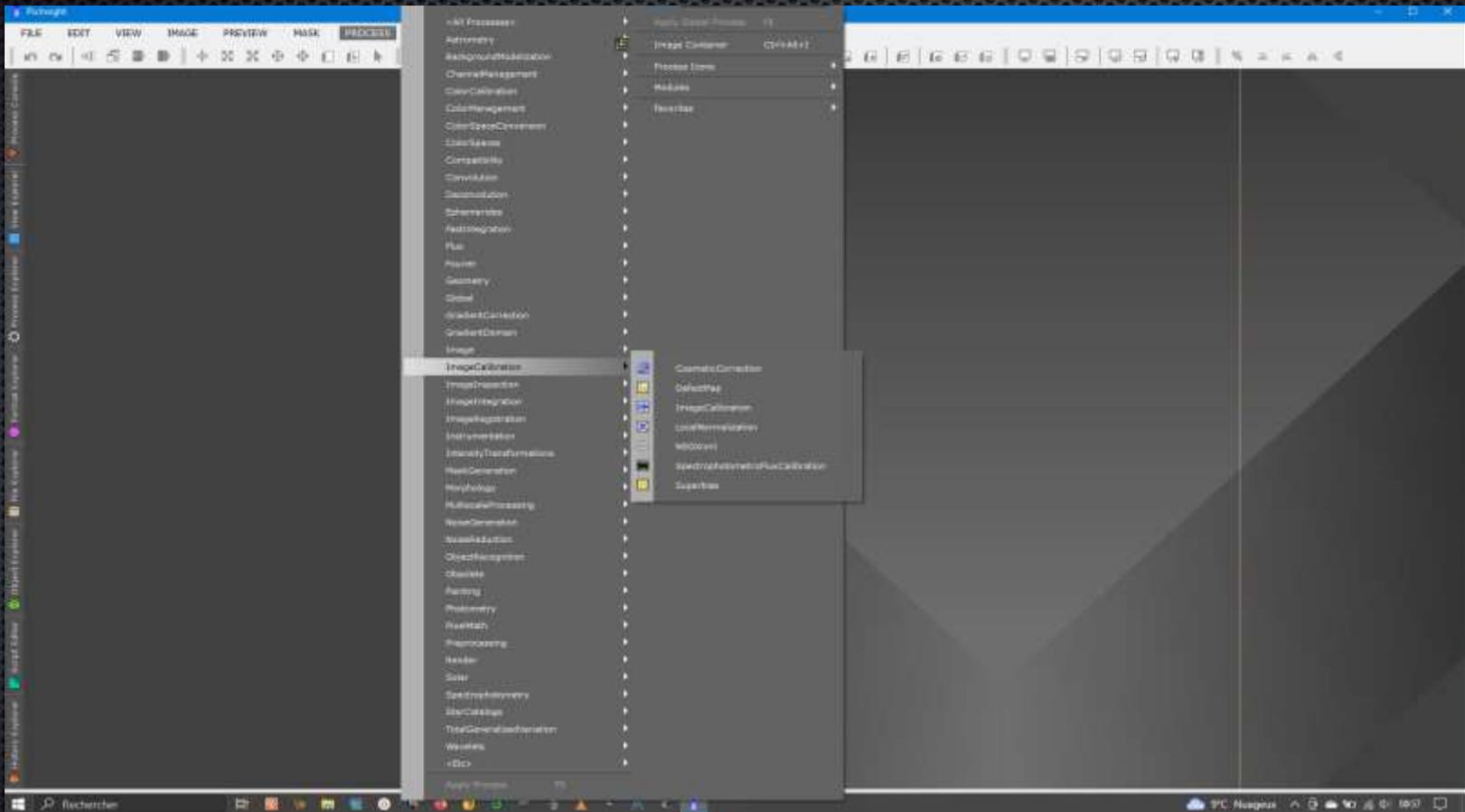


PIXINSIGHT Plugins et Mise à jour

Classement process par catégories



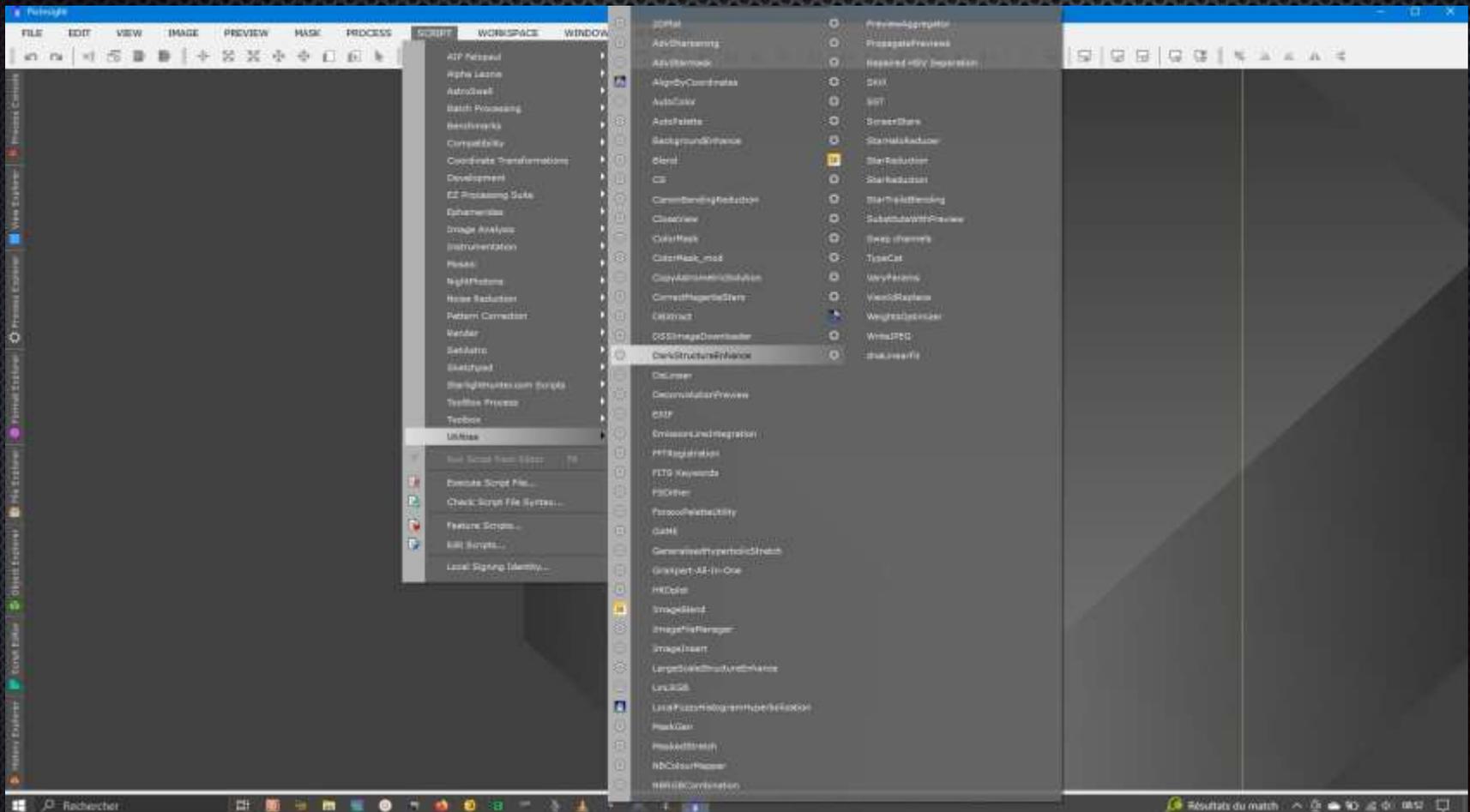
Les process sont classés par catégorie contrairement aux scripts où ils ne sont pas classés par catégorie mais par rapport à leur concepteur.



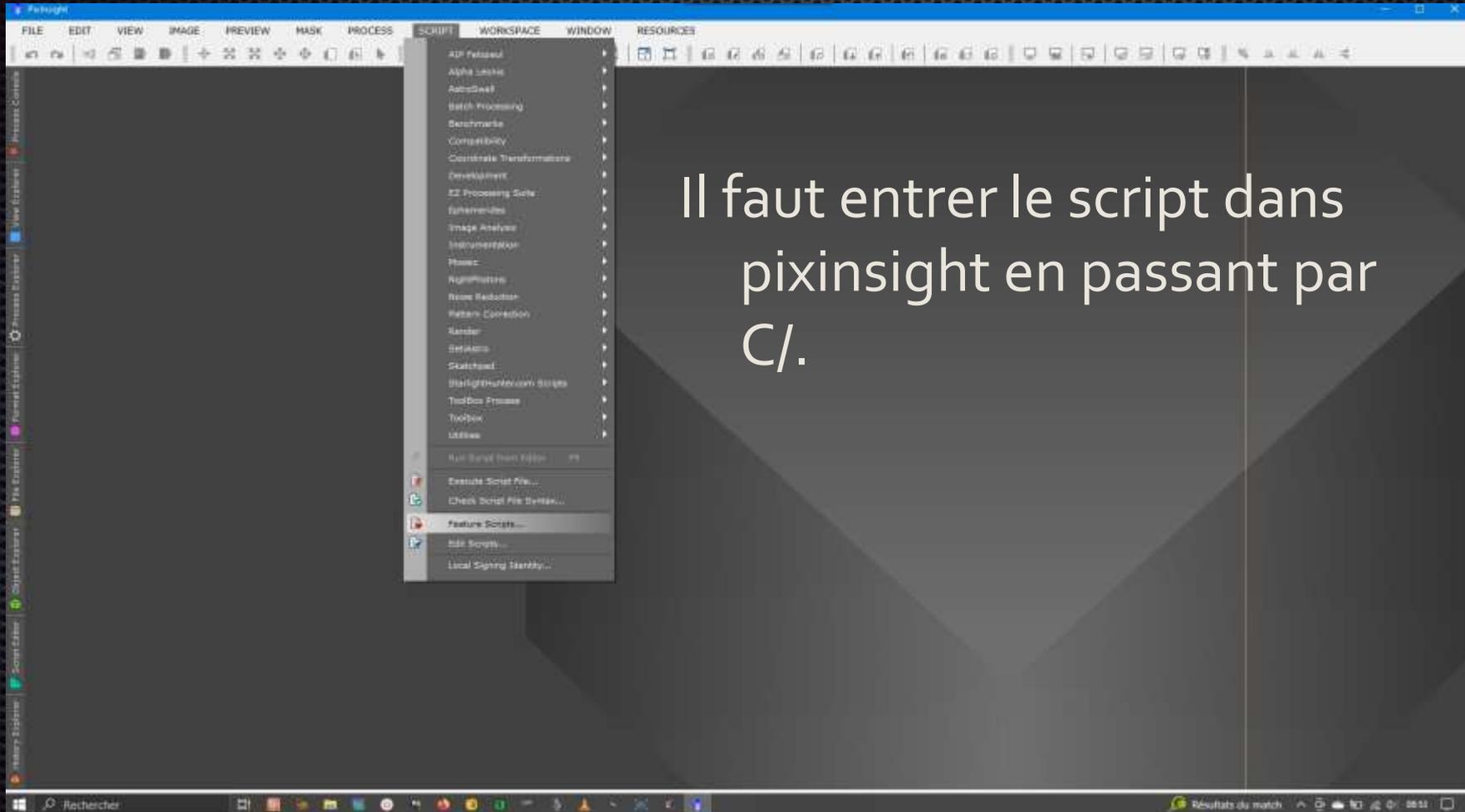
Scripts



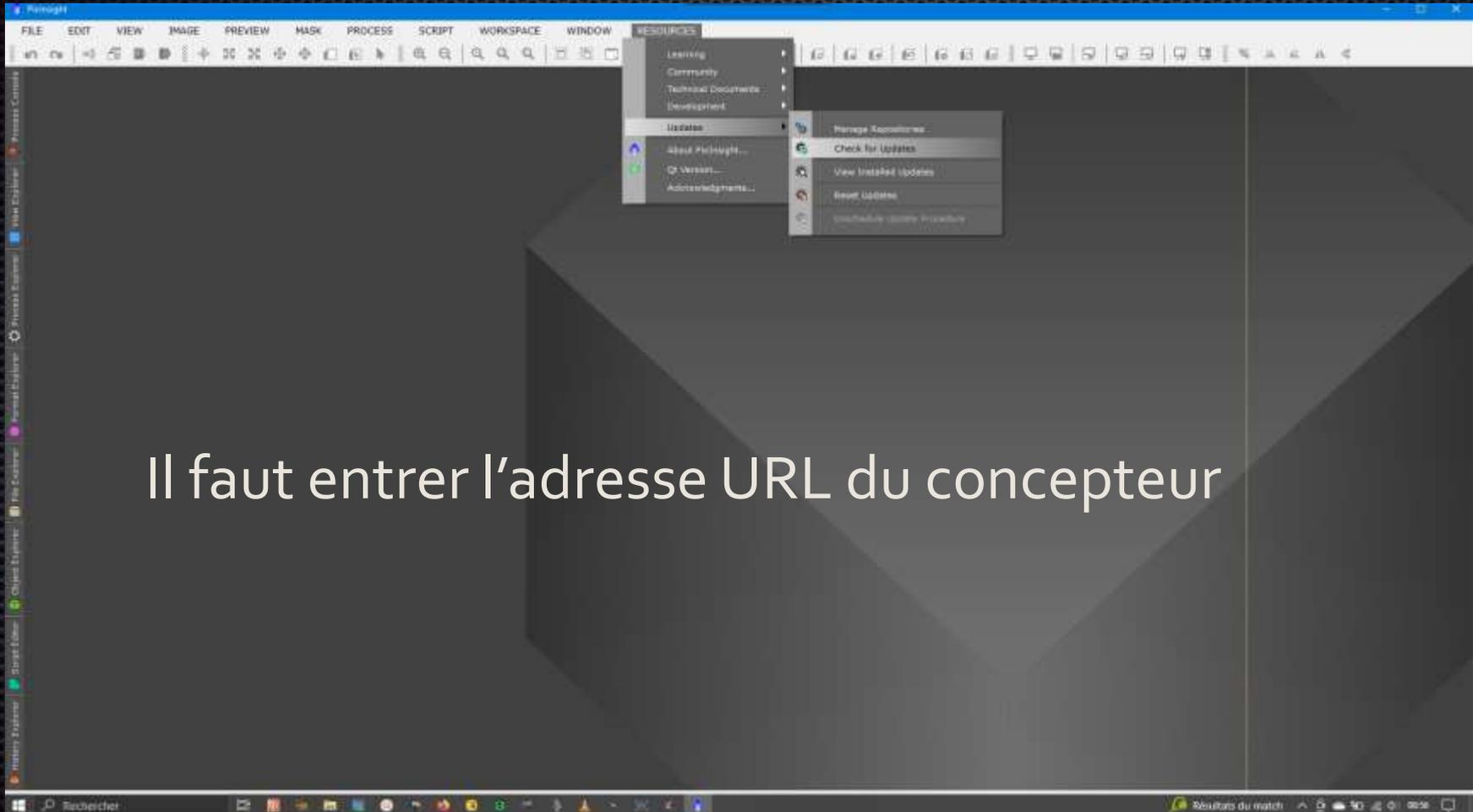
Certains sont inclus dans pixinsight et d'autres sont à charger via des adresses URL ou par installation manuelle.



Ajout manuel script: Feature Scripts

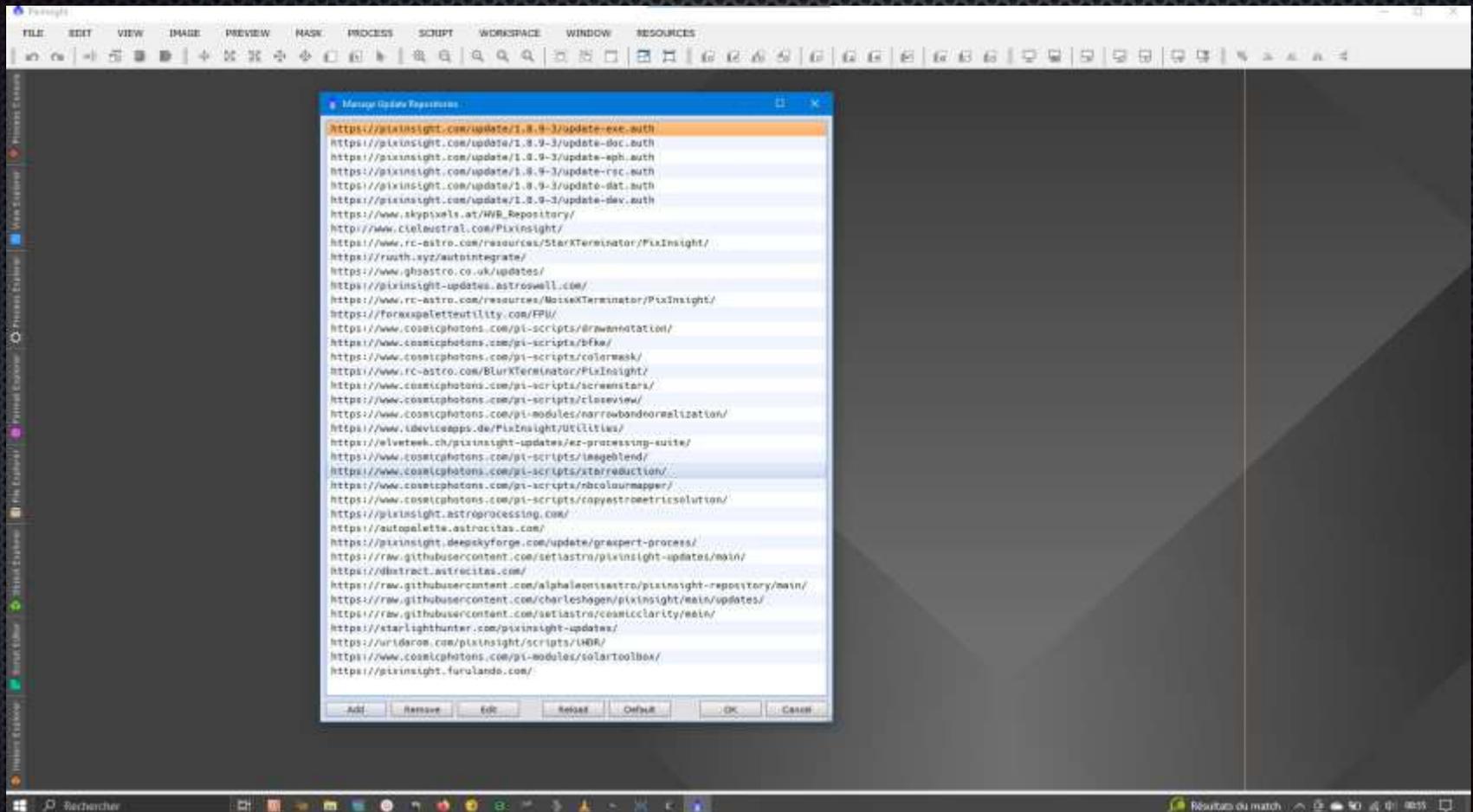


Manage repositories

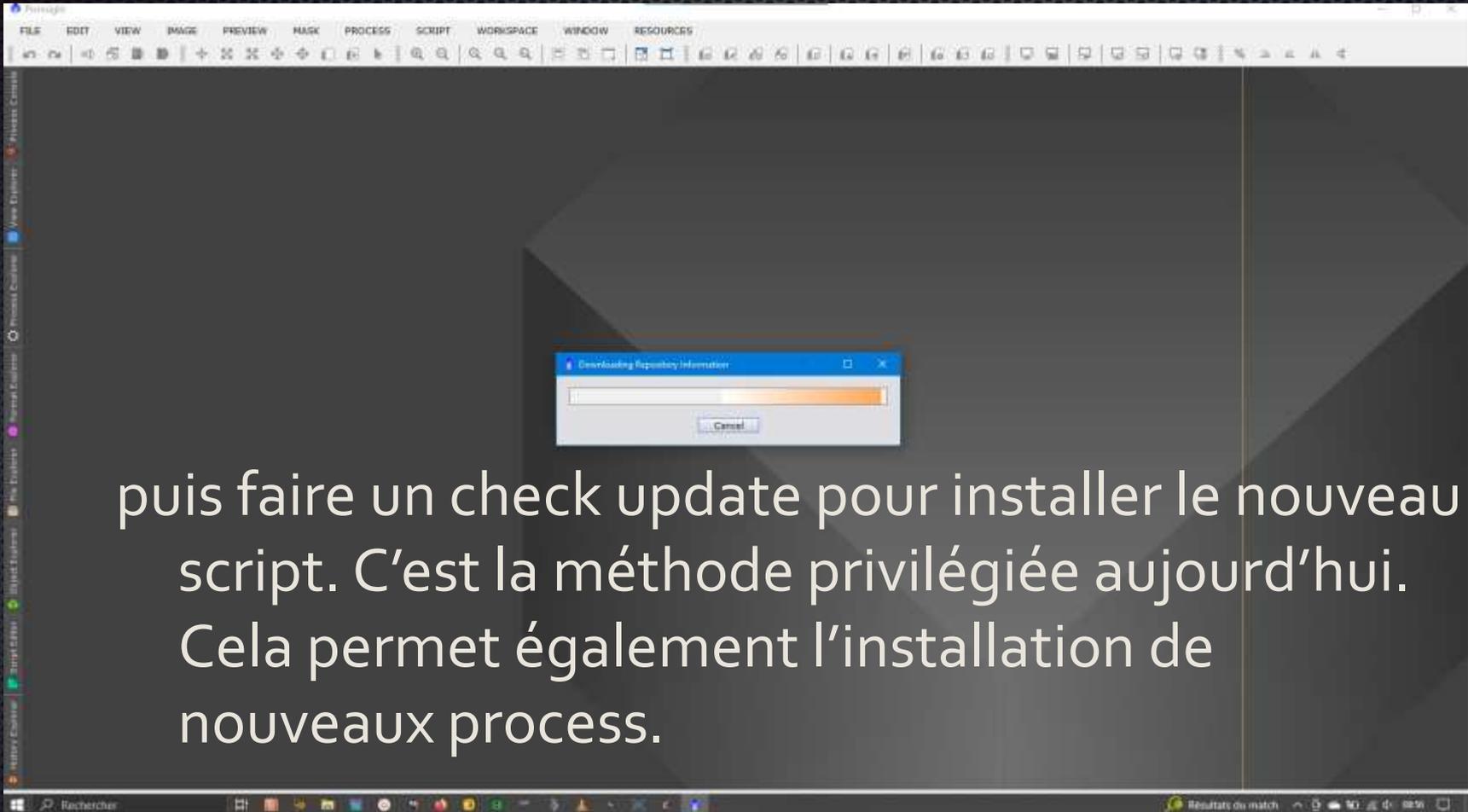


Il faut entrer l'adresse URL du concepteur

Manage repositories



Check for updates



puis faire un check update pour installer le nouveau script. C'est la méthode privilégiée aujourd'hui. Cela permet également l'installation de nouveaux process.

Adresses URL manage repositories 1 (novembre 2024)



- https://www.skypixels.at/HVB_Repository/
- <https://pixinsight-updates.astroswell.com/>
- <https://www.cielaustral.com/Pixinsight/>
- <https://www.rc-astro.com/resources/StarXTerminator/PixInsight/>
- <https://www.rc-astro.com/resources/NoiseXTerminator/PixInsight/>
- <https://www.rc-astro.com/BlurXTerminator/PixInsight/>
- <https://ruuth.xyz/autointegrate/>
- <https://www.ghsastro.co.uk/updates/>

Adresses URL manage repositories 2 (novembre 2024)



<https://www.ideviceapps.de/PixInsight/Utilities/>
<https://foraxpaletteutility.com/FPU/>
<https://www.cosmicphotons.com/pi-scripts/screenstars/>
<https://www.cosmicphotons.com/pi-scripts/starreduction/>
<https://www.cosmicphotons.com/pi-scripts/drawannotation/>
<https://www.cosmicphotons.com/pi-scripts/bfke/>
<https://www.cosmicphotons.com/pi-scripts/colormask/>
<https://www.cosmicphotons.com/pi-scripts/closeview/>
<https://www.cosmicphotons.com/pi-modules/narrowbandnormalization/>
<https://www.cosmicphotons.com/pi-scripts/nbcolourmapper/>
<https://www.cosmicphotons.com/pi-scripts/imageblend/>
<https://www.cosmicphotons.com/pi-scripts/copyastrometricresolution/>
<https://pixinsight.astroprocessing.com/>
<https://elveteeek.ch/pixinsight-updates/ez-processing-suite/>
<https://autopalette.astrocitas.com/>
<https://pixinsight.furulando.com/>
<https://www.cosmicphotons.com/pi-modules/solartoolbox/>

Adresses URL manage repositories 3 (novembre 2024)



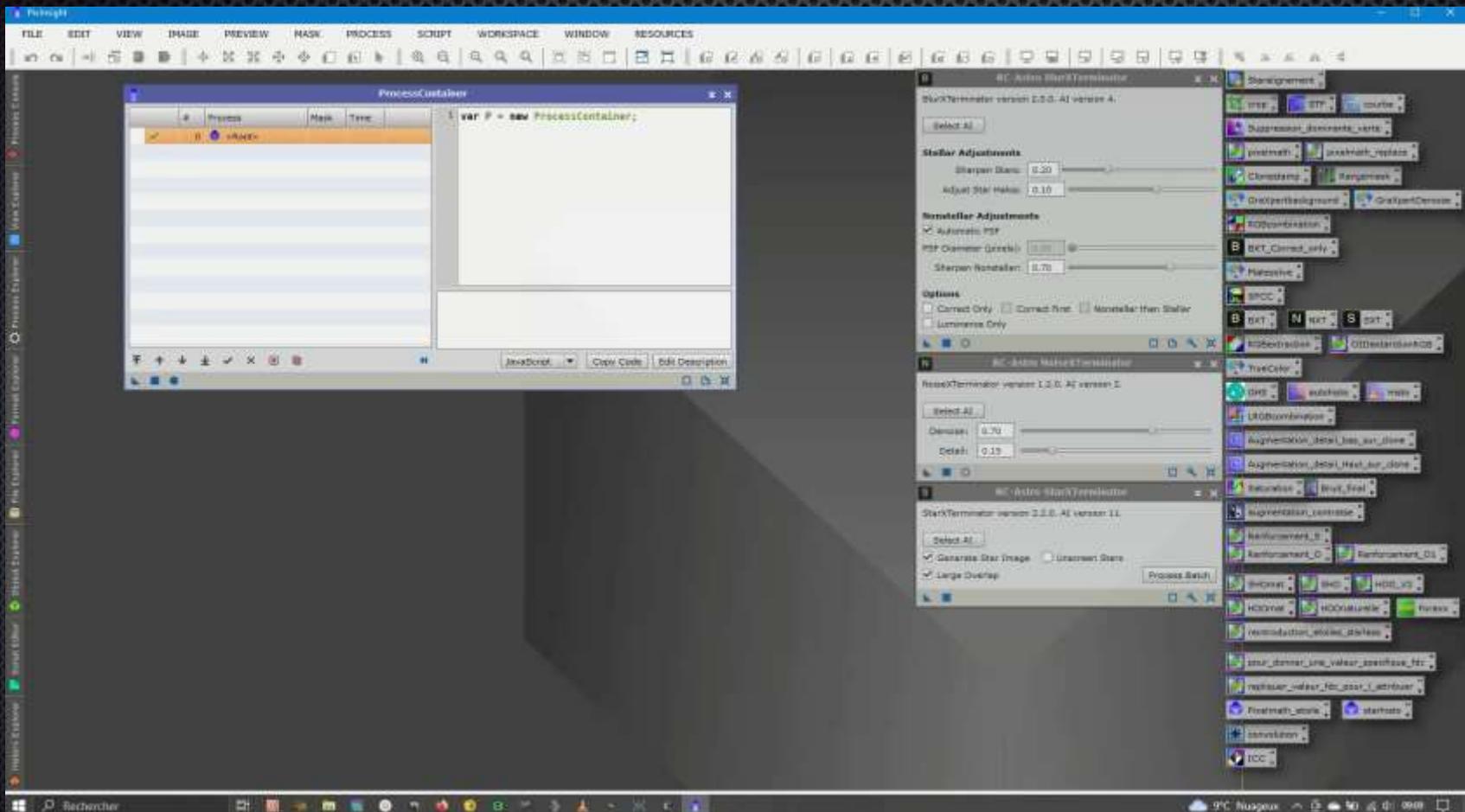
<https://www.cosmicphotons.com/pi-modules/colourmask/>
<https://pixinsight.deepskyforge.com/update/graxpert-process/>
<https://raw.githubusercontent.com/setiastro/pixinsight-updates/main/>
<https://uridarom.com/pixinsight/scripts/iHDR/>
<https://dbxtract.astrocitas.com/>
<https://starlighthunter.com/pixinsight-updates/>
<https://raw.githubusercontent.com/bitli/pixinsight-updates/main/>
<https://raw.githubusercontent.com/setiastro/cosmicclarity/main/>
<https://raw.githubusercontent.com/charleshagen/pixinsight/main/updates/>

Process container



Ne pas confondre process container et script!

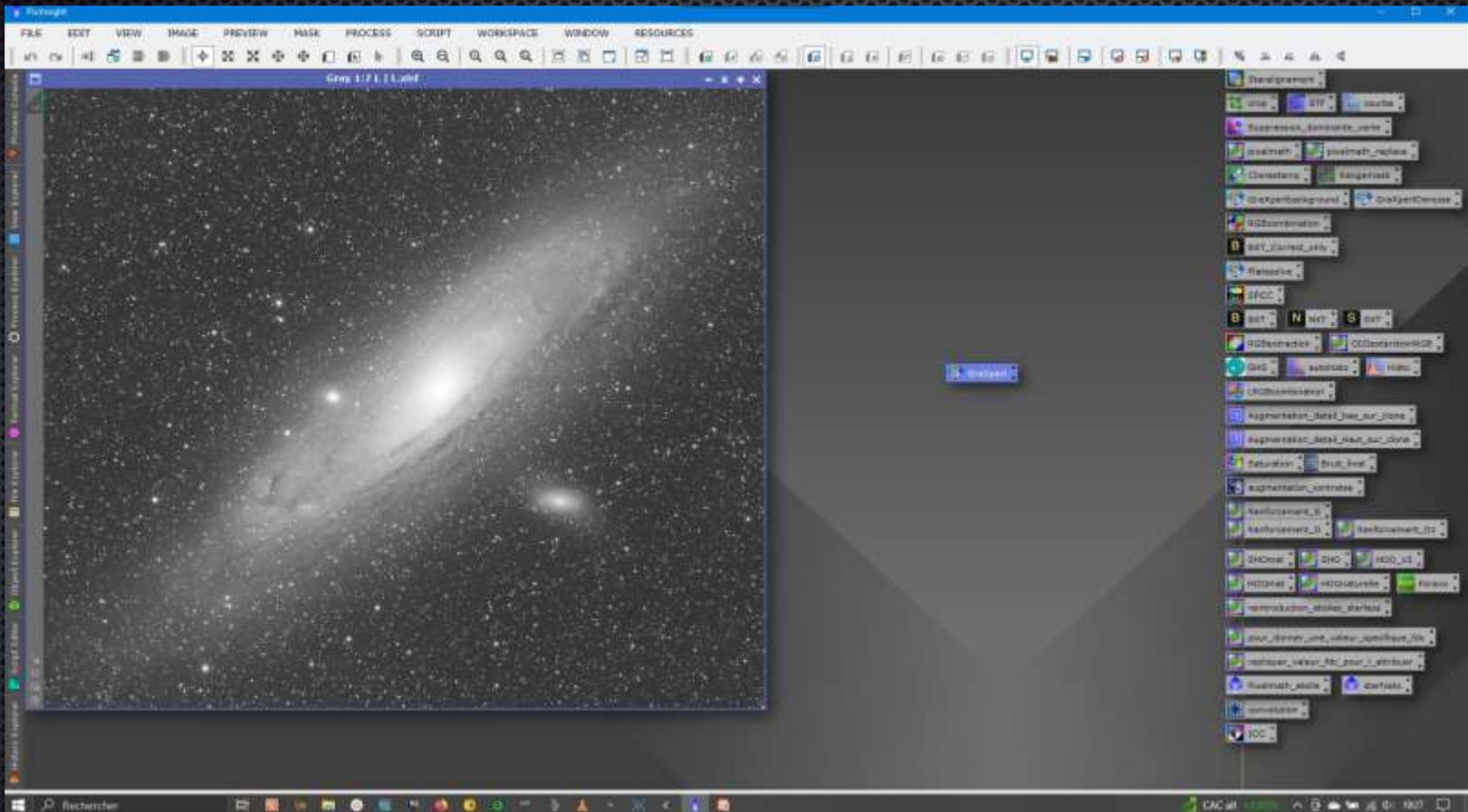
Process container



SCRIPT DANS LE WORKFLOW



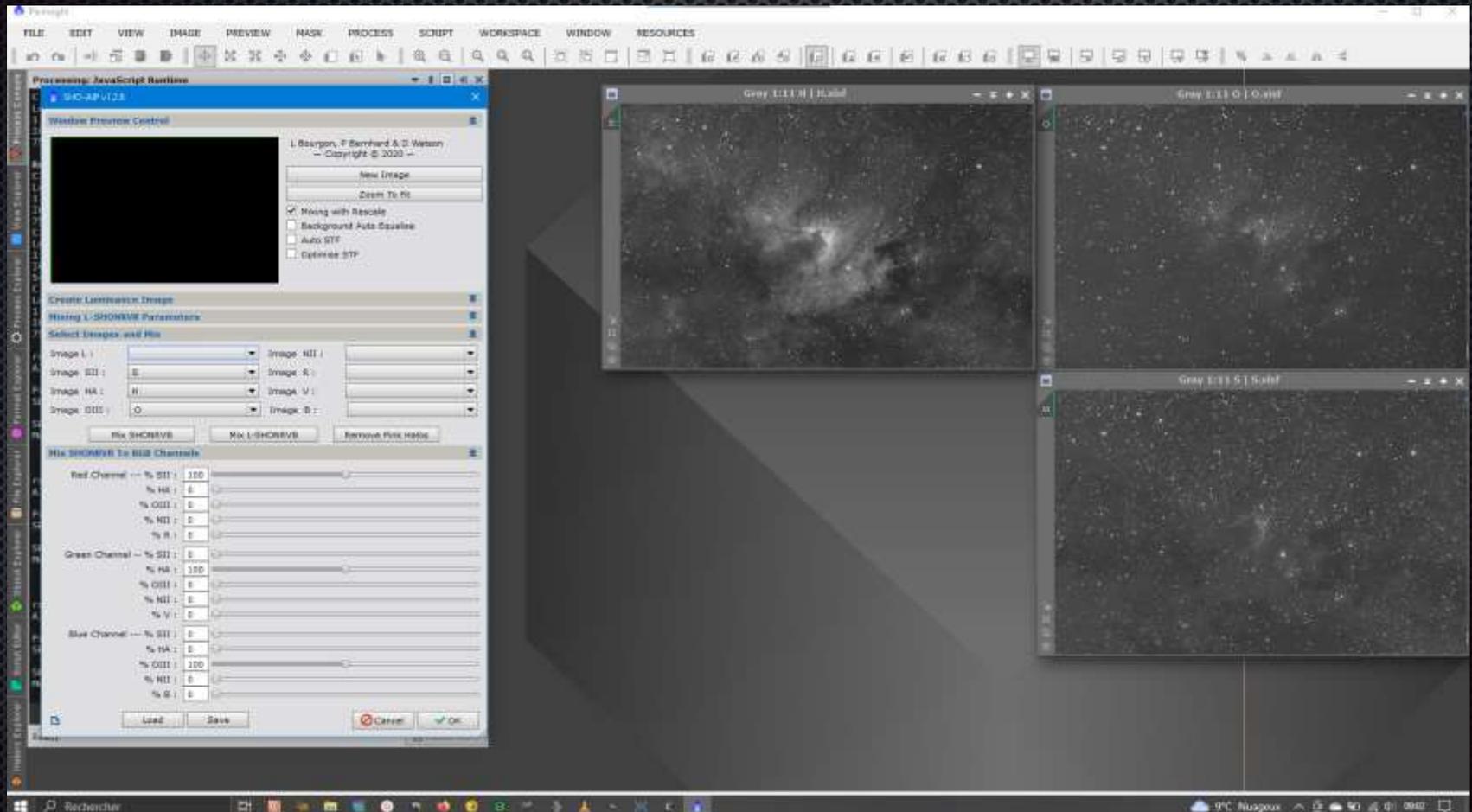
Les scripts ont la forme d'un diamant avec le script quand on l'intègre dans le workflow. Les valeurs par défaut sont définies au préalable.



Script AIP



script AIP par L. Bourgon, D. Watson et P. Bernhard qui permet le mixage en SHORVB ainsi que le mixage de la luminance.



Palette Foraxx



palette Foraxx par Paul Hancock qui permet le mixage SHO sur une starless ainsi que le mixage des étoiles en couleur RGB sur du NB

This script provides an environment within which to create a Foraxx Palette image.

For more in depth information about the Foraxx Palette, you should visit the Coherent Nights website, use the button below (bottom left) to navigate to the website.

The script expects stretched starless images along with, (optionally) stretched images of the stars.

First select how many channels of data you have in the Number of Channels Tab Box. If you have gathered S_I, H_α and O_{III} data then choose 3 Channels, if you have only gathered H_α and O_{III} (either via mono imaging or OSC with a dual narrowband filter), then choose 2 Channels, this will grey out the S_I boxes.

Once you have chosen the appropriate number of channels you need to select each of your starless images, and the respective star images or check the box to disable star images.

Once you press the Execute button, the script will produce the relevant dynamic pixelmath intermediary images. It will then run the appropriate Foraxx expressions depending on the number of filters used.

Once Complete, you will have a final Foraxx image along with the colour stars image, named Foraxx and Foraxx_stars respectively.

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Number of Channels
 Choose this option if you only have two channels. Choose this option if you have three channels.
 Check this box if you only want a single Foraxx image and don't need any star images created.

Channel Selection

S _I :	<input type="text" value="S"/>	O _{III} Stars:	<input type="text" value="H11 (Star Selection)"/>
H _α :	<input type="text" value="H"/>	H _α Stars:	<input type="text" value="H11 (Star Selection)"/>
O _{III} :	<input type="text" value="O"/>	O _{III} Stars:	<input type="text" value="H11 (Star Selection)"/>

Version - 1.15 Build: 303404221638

Process Console



importance de la console qui permet de voir les process utilisés pour l'exécution du script.

Process Console



The screenshot displays the PixInsight software interface. The top menu bar includes FILE, EDIT, VIEW, IMAGE, PREVIEW, MASK, PROCESS, SCRIPT, WORKSPACE, WINDOW, and RESOURCES. The main window shows a large image of a nebula with a color palette on the right. The Process Console on the left shows the following log:

```
channel #0: done
Truncating to [0,1]: done
1.277 s
!D Dynamic PixelMath Factor created...
Creating the "HD" Dynamic PixelMath Factor ...

PixelMath: Processing view: H
Executing PixelMath expression:
[H*0]~(CM0)
channel #0: done
Truncating to [0,1]: done
1.495 s
"HD" Dynamic PixelMath Factor created...
Creating the Foraxx Image ...

PixelMath: Processing view: H
Executing PixelMath expression:
[H*0]~(CM0)*H+~([H*0]~(M*0))!D
channel #1: done
Executing PixelMath expression:
channel #2: done
Truncating to [0,1]: done
1.944 s
Foraxx Image created...
Completing Curves Adjustments ...

CurvesTransformation: Processing view: Foraxx
Writing swap files...
5395.285 MiB/s
Curves transformation: done
1.949 s

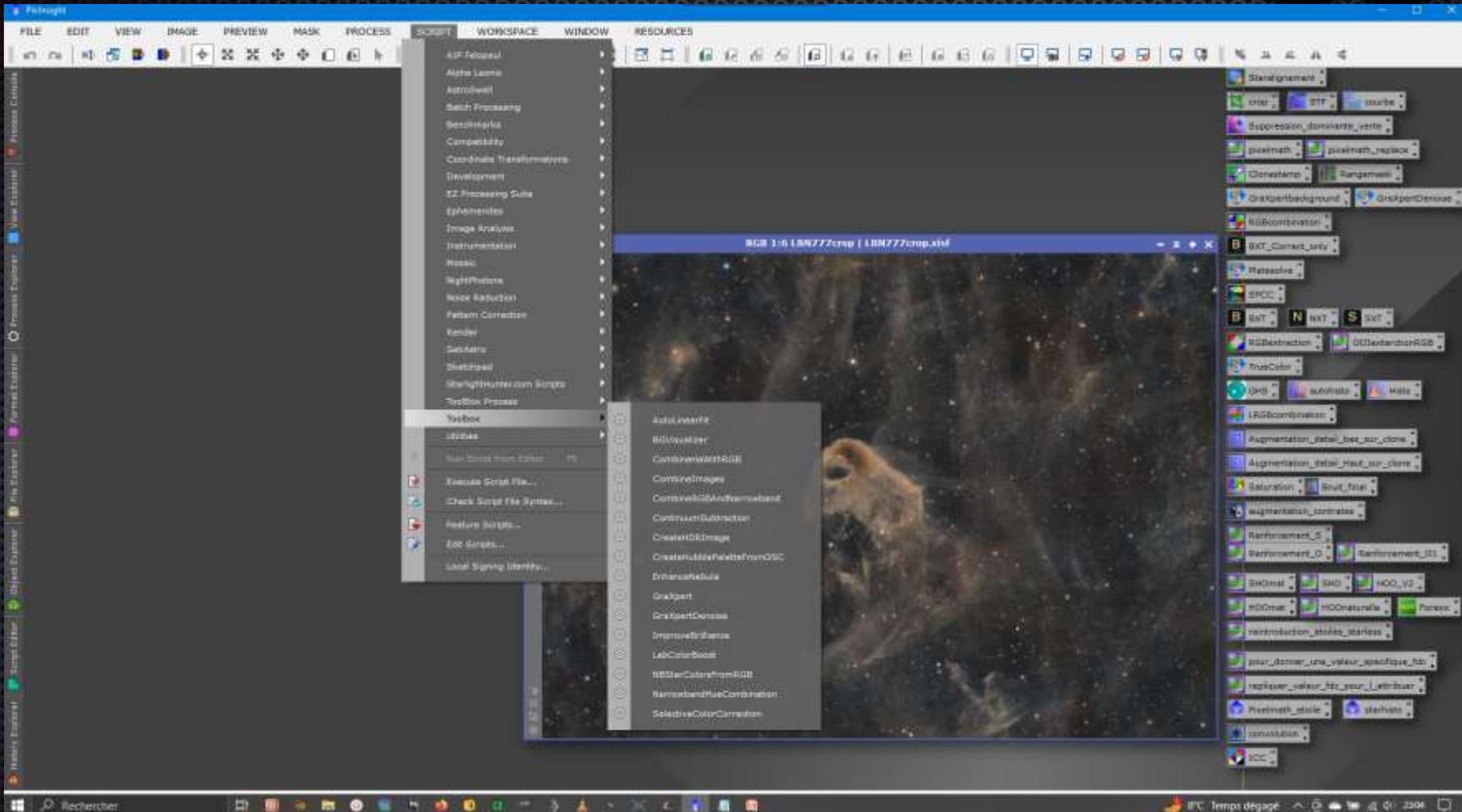
CurvesTransformation: Processing view: Foraxx
Writing swap files...
5584.588 MiB/s
Curves transformation: done
2.279 s

ColorSaturation: Processing view: Foraxx
Writing swap files...
5365.177 MiB/s
Color saturation transformation, HSVL space: done
1.976 s

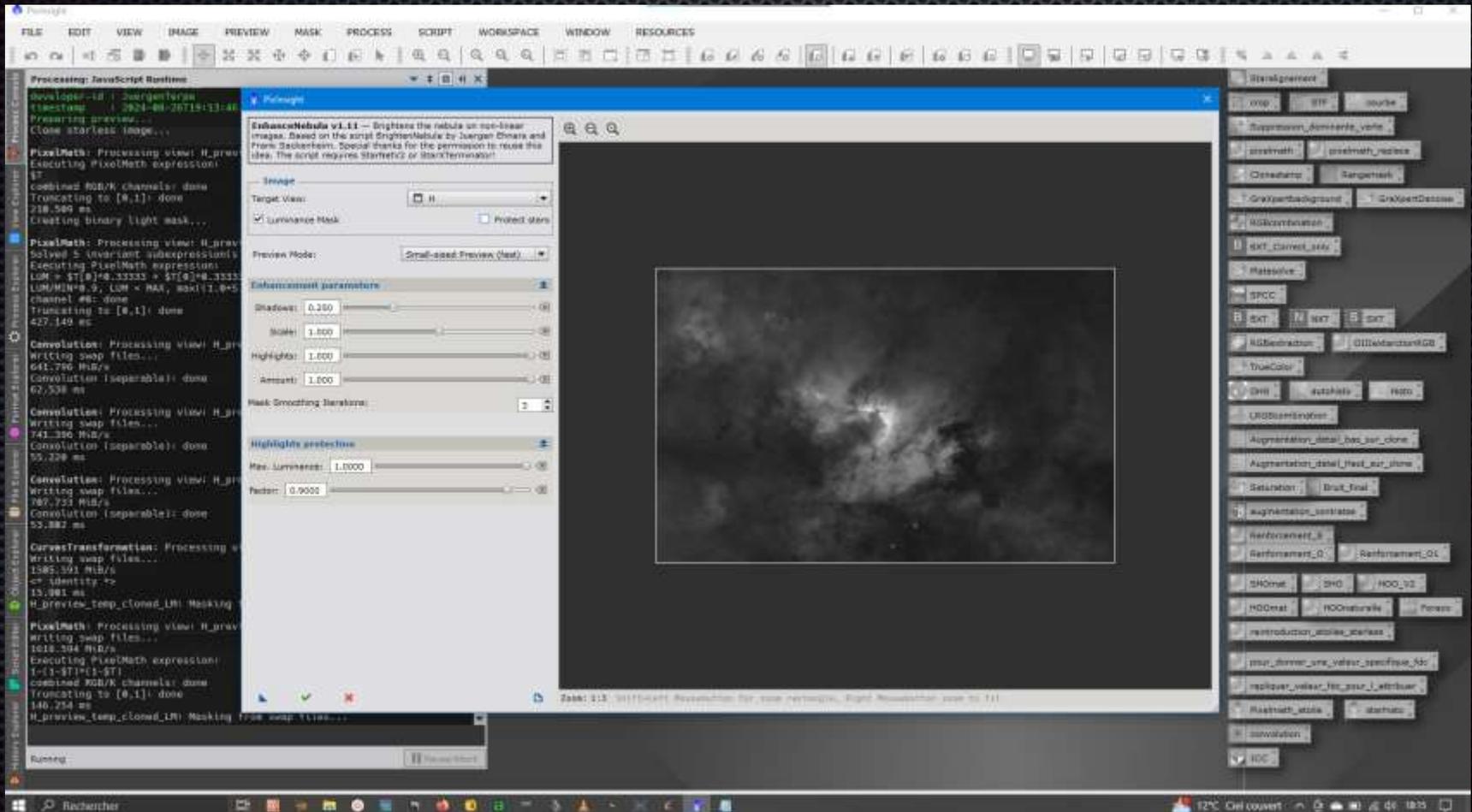
ColorSaturation: Processing view: Foraxx
Writing swap files...
4792.435 MiB/s
Color saturation transformation, HSVL space: done
2.899 s
Curves Adjustments Complete...
Script Complete...
Goodbye from ForaxxPalette
```

Toolbox

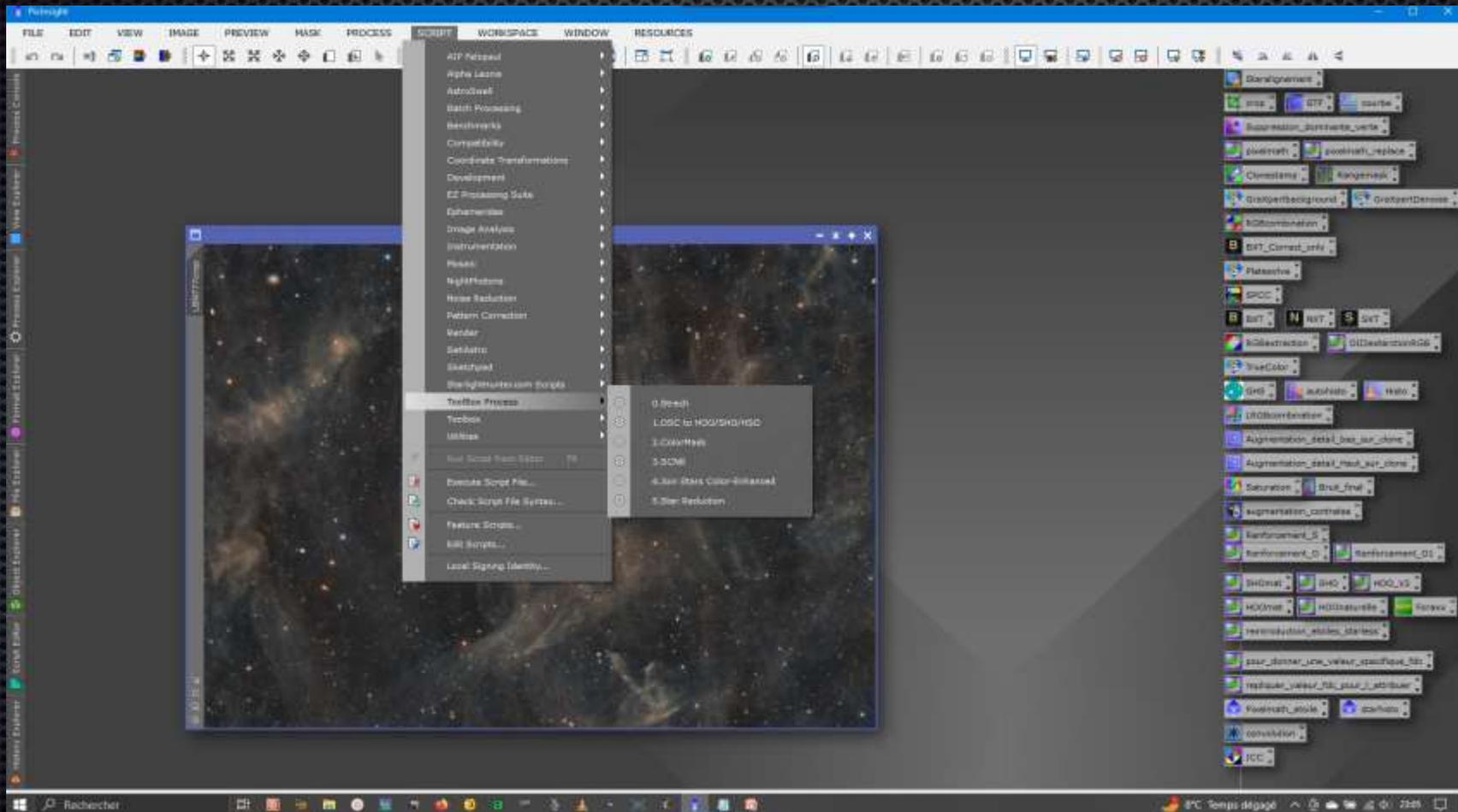
Parmi les indispensables!



Toolbox: Enhance nebula



Toolbox Process



Toolbox process: Colormask



The screenshot shows the PixInsight software interface. The main window displays a color mask being applied to an image of a nebula. A dialog box titled "Color Mask with Pixelmath" is open, showing settings for mask strength and blur. A terminal window in the foreground displays the command "MaskMerge" and its output.

```
script -sd MaskMerge
developer-id : FrankMarak
timestamp   : 2024-07-09T12:31:54.821Z
Mask Merge Dialog Closed.

run --execute--mode=auto "C:/Program Files/PixInsight/src/scripts/
ToolBoxProcess/ColorMasks.js"

Processing script file: C:/Program Files/PixInsight/src/scripts/
ToolBoxProcess/ColorMasks.js

INFO: Color Mask with Pixelmath 1.0.4:

run --execute--mode=auto "C:/Program Files/PixInsight/src/scripts/
ToolBoxProcess/ColorMasks.js"

Processing script file: C:/Program Files/PixInsight/src/scripts/
ToolBoxProcess/ColorMasks.js

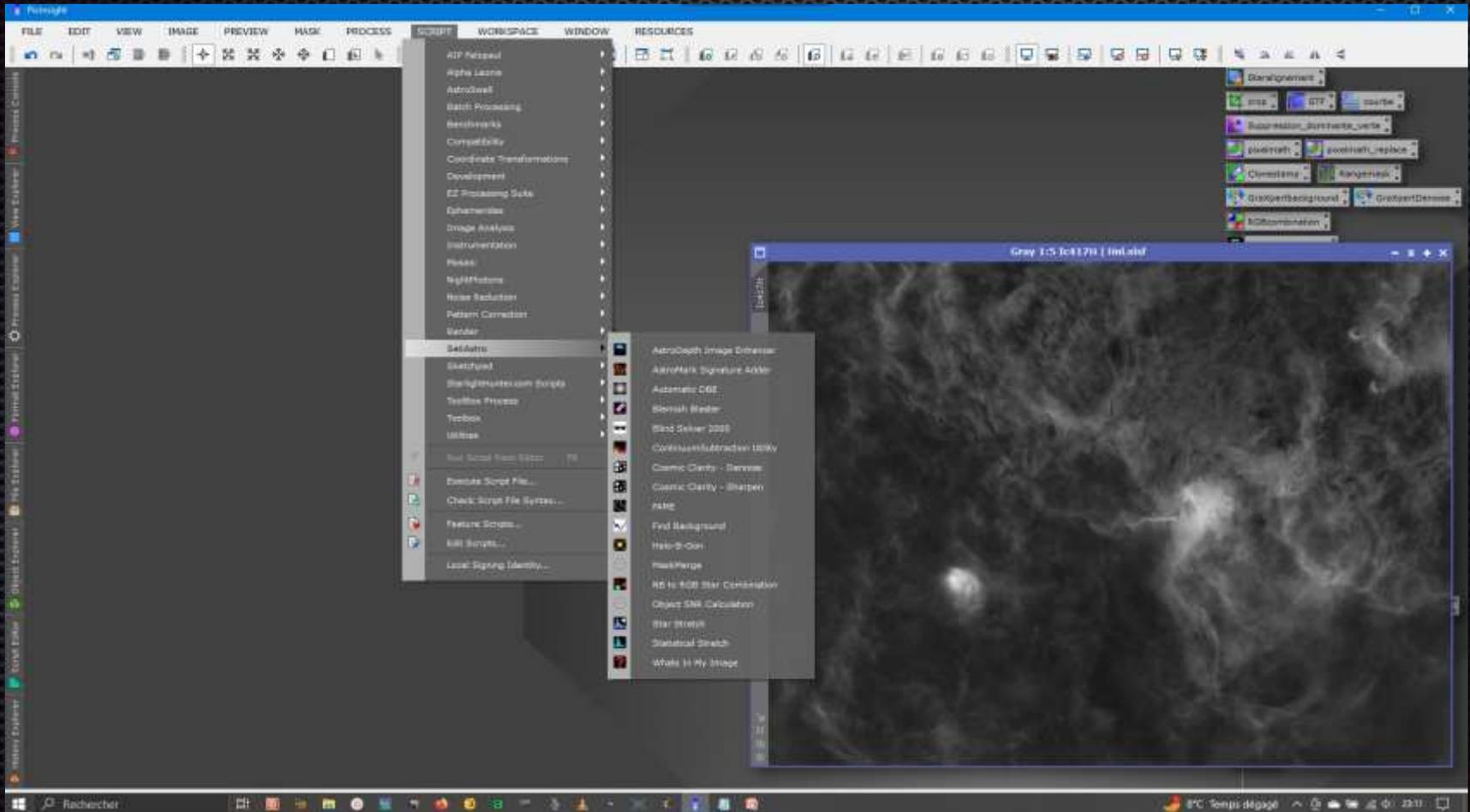
INFO: Color Mask with Pixelmath 1.0.4:

Ready
```

Seti astro



Certains scripts sont en version libre hors Pix!



Setiastro Statistical Stretch



Statistical Stretch 1.6.1

Select your image in the dropdown.

Use the slider to adjust your Target Median value.
3.10 is a good start for distinct objects eg galaxy or PN.
0.25 is a good start for starfield objects like nebula filling the image.
Auto Convergence option to achieve statistical exploration, most image will only require 1 iteration.

Option to Perform Linked or Unlinked Stretch.
Optional checkbox to normalize the image to fill the range [0,1]

Use Preview Refresh to Update the Preview.

Select Image to Stretch: **H**

Target Median: **0.25**

Automatic Convergence

Curves Boost: **0.80**

Normalize Image Range to [0,1] Linked Stretch

Written by Franklin Mark
www.setiastro.com

Preview Zoom Level: **Fit to Preview** Evaluate

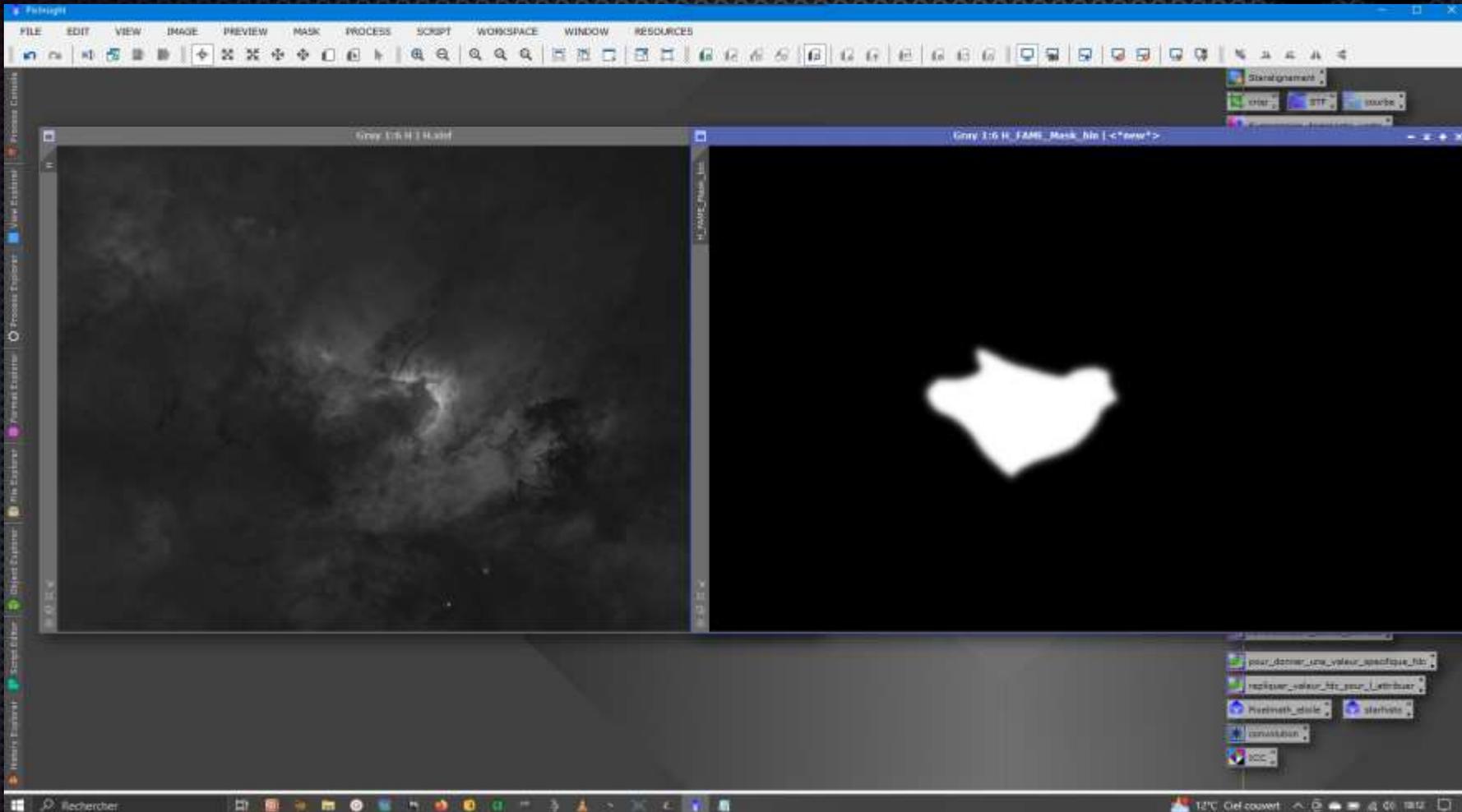
Preview Refresh

Setiastro Fame



A screenshot of the PixInsight software interface. The main window displays a grayscale image of a star field with a green freehand mask drawn around a specific star. Overlaid on the image is the 'Freehand Adaptive Mask Editor (FARE) V1.5' dialog box. The dialog box contains instructions for using the tool, such as 'Shift + Click and drag to draw a shape' and 'CTRL+Click and Drag to MOVE the drawn shape'. It also includes a 'Select Image:' dropdown menu, a 'Freehand Shape (Lasso Tool)' section with radio buttons for 'Brush', 'Splay Can', 'Erase', and 'Rectangle', and a 'Mask Type:' section with checkboxes for 'Binary', 'Lightness', 'Chrominance', 'Gradient Mask', and 'Color'. The 'Binary' checkbox is checked. At the bottom of the dialog, it says 'Written by Franklin Harck' and 'Website: www.setiastro.com'. The background shows the PixInsight menu bar (FILE, EDIT, VIEW, IMAGE, PREVIEW, MASK, PROCESS, SCRIPT, WORKSPACE, WINDOW, RESOURCES) and a list of processing steps on the left side of the interface.

Setiastro Fame





- ◎ Pixinsight est donc un logiciel très complet qui associe notamment le prétraitement et le traitement des images astronomiques. (Ce n'est pas un logiciel d'acquisition). Il permet donc également aux amateurs d'apporter leur contribution en élaborant des scripts qui peuvent être mis à la disposition de tout le monde.



Questions?



Merci de votre attention