**Animation Process Directories and Python Code**

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**Directories:**

* **scan\_input\_dir**='c:\\Users\\bruce\\Desktop\\GAVRT\\GAVRT\_20240722\\scan\_input\_dir' # Directory that has the raster scan data
* **scan\_output\_di**r='c:\\Users\\bruce\\Desktop\\GAVRT\\GAVRT\_20240722\\scan\_output\_dir' # Directory that the raster scan data is moved to after processed
* **png\_image\_dir**='c:\\Users\\bruce\\Desktop\\GAVRT\\GAVRT\_20240722\\png\_image\_dir' Directory that the resulting png images are deposited.
* **Png\_image\_dir\_rn:** 'c:\\Users\\bruce\\Desktop\\GAVRT\\GAVRT\_20240722\\png\_image\_dir\_rn' . Renamed png\_images.
* **png\_image\_aux\_dir**='c:\\Users\\bruce\\Desktop\\GAVRT\\GAVRT\_20240722\\png\_image\_aux\_dir' #directory that has the YAML file and the NoImage.png file which is a blank image used for Channel 2
* **collage\_dir:** C:\\Users\\bruce\\Desktop\\GAVRT\\GAVRT\_20240722\\collage\_dir
* **animations\_dir:** C:\\Users\\bruce\\Desktop\\GAVRT\\GAVRT\_20240722\\animations\_dir

**Python Code:**

**GAVRT\_P1\_FNL.py:** Loops through scan files in the directory **scan\_input\_dir** and creates photos in the directory **png\_image\_dir.** Processed scan files are moved to scan\_output\_dir- Done

**GAVRT\_P2\_FNL.py:** Copies images in **png\_images\_di**r to **png\_images\_dir\_rn**. Then renames the images for creating collage and animation sequences. -Done

**GAVRT\_P3\_FNL.py:** Uses renamed images in **png\_images\_dir\_rn** to create collage images. Stores Collage images in **collage** directory. Uses NoImage.png in **png\_images\_aux\_dir** for Channel 2-Done

**GAVRT\_P4\_FNL.py:** Uses images in collage directory to create MP4 and GIF Animations