

# 1. Find Annotation & JPEG Images directories.



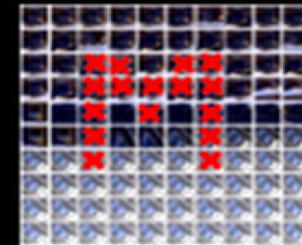
2.  
Create df



3.  
Load df



Save Settings



**MOSAIC Chip Sorter**



/Volumes/One Touch/CustomDroneVideo\_mp4/IMG\_4305\_frames/MODEL\_efficientdet1\_VisDrone\_efficientdet1\_100epochs-1tpus-VisDrone\_edgetpu

1.a  
Annotations dir



/Volumes/One Touch/CustomDroneVideo\_mp4/IMG\_4305\_frames/MODEL\_efficientdet1\_VisDrone\_efficientdet1\_100epochs-1tpus-VisDrone\_edgetpu

1.b  
JPEGImages dir



2.  
Create df

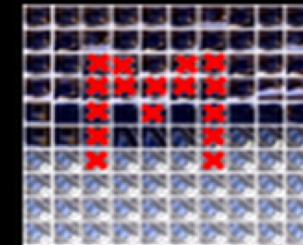


3.  
Load df



Save Settings

**2. Create Pandas DataFrame of those Annotation & JPEG Images.**



**MOSAIC Chip Sorter**



/Volumes/One Touch/CustomDroneVideo\_mp4/IMG\_4305\_frames/MODEL\_efficientdet1\_VisDrone\_efficientdet1\_100epochs-1tpus-VisDrone\_edgetpu

1.a  
Annotations dir



/Volumes/One Touch/CustomDroneVideo\_mp4/IMG\_4305\_frames/MODEL\_efficientdet1\_VisDrone\_efficientdet1\_100epochs-1tpus-VisDrone\_edgetpu

1.b  
JPEGImages dir



2.  
Create df

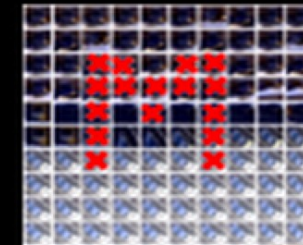


3.  
Load df

**3. Load Pandas DataFrame of those  
Annotation & JPEG Images.**



Save Settings



**MOSAIC Chip Sorter**



/Volumes/One Touch/CustomDroneVideo\_mp4/IMG\_4305\_frames/MODEL\_efficientdet1\_VisDrone\_efficientdet1\_100epochs-1tpus-VisDrone\_edgetpu

1.a

Annotations dir



/Volumes/One Touch/CustomDroneVideo\_mp4/IMG\_4305\_frames/MODEL\_efficientdet1\_VisDrone\_efficientdet1\_100epochs-1tpus-VisDrone\_edgetpu

1.b

JPEGImages dir



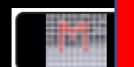
2.

Create df



3.

Load df



4.

Analyze Mosa



5.

Move Fix



6.

Fix w/ labellmg.py



7.

Merge Fix



8.

Clear Fix



9.

Clear Checked



Save Settings

## 4.a Select target id to create MOSAICs.

car 50  
car  
pedestrian  
truck

Not Checked Total = 254

Checked Good = 0

Checked Bad = 0

Not Checked 'car' Total = 225

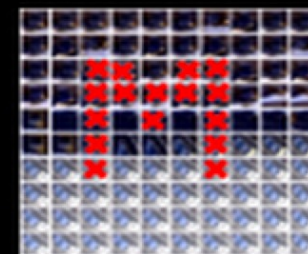
Checked 'car' Good = 0

Checked 'car' Bad = 0

Annos to fix = 0

JPEGS to fix = 0

JPEGS to fix bbox = 0



## MOSAIC Chip Sorter



/Volumes/One Touch/CustomDroneVideo\_mp4/IMG\_4305\_frames/MODEL\_efficientdet1\_VisDrone\_efficientdet1\_100epochs-1tpus-VisDrone\_edgetpu

1.a

Annotations dir



/Volumes/One Touch/CustomDroneVideo\_mp4/IMG\_4305\_frames/MODEL\_efficientdet1\_VisDrone\_efficientdet1\_100epochs-1tpus-VisDrone\_edgetpu

1.b

JPEGImages dir



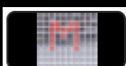
2.

Create df



3.

Load df



4.

Analyze Mosaic

car

50

MOSAIC\_NUM

Not Checked Total = 254

Checked Good = 0

Checked Bad = 0

Not Checked 'car' Total = 225

Checked 'car' Good = 0

Checked 'car' Bad = 0

Annos to fix = 0

JPEGS to fix = 0

JPEGS to fix bbox = 0



5.

Move Fix



6.

Fix w/ labellmg.py



7.

Merge Fix



8.

Clear Fix



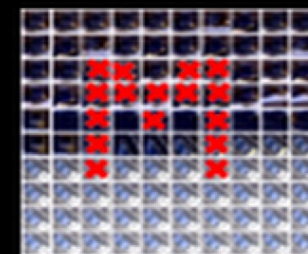
9.

Clear Checked



Save Settings

## 4.b Enter number of chips per MOSAIC.



# MOSAIC Chip Sorter



Annotations dir



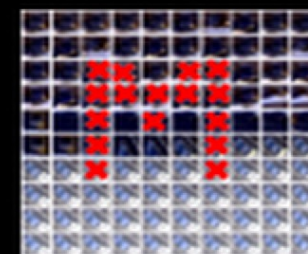
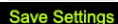
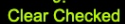
JPEGImages dir



#### Analyze Mosaic



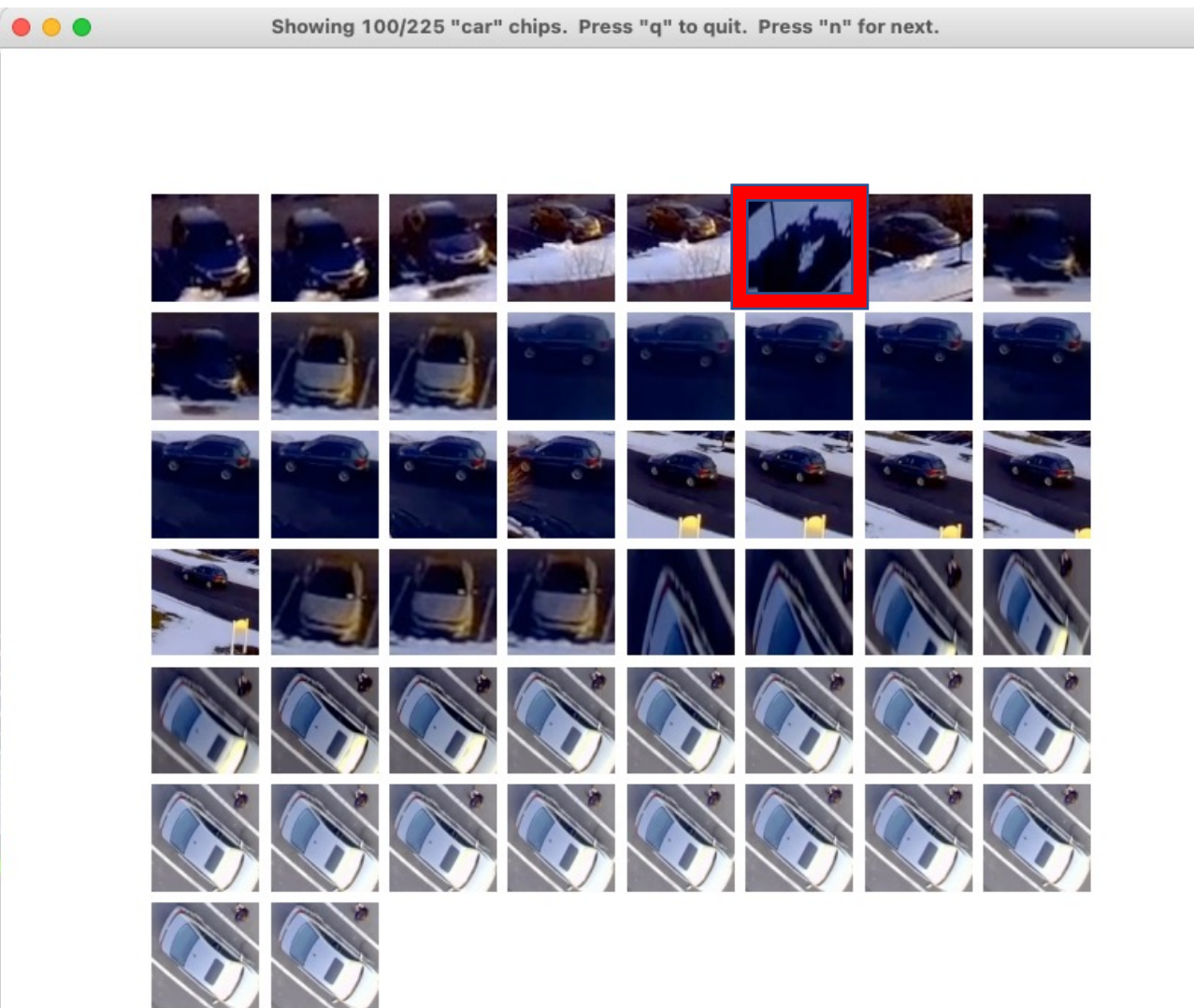
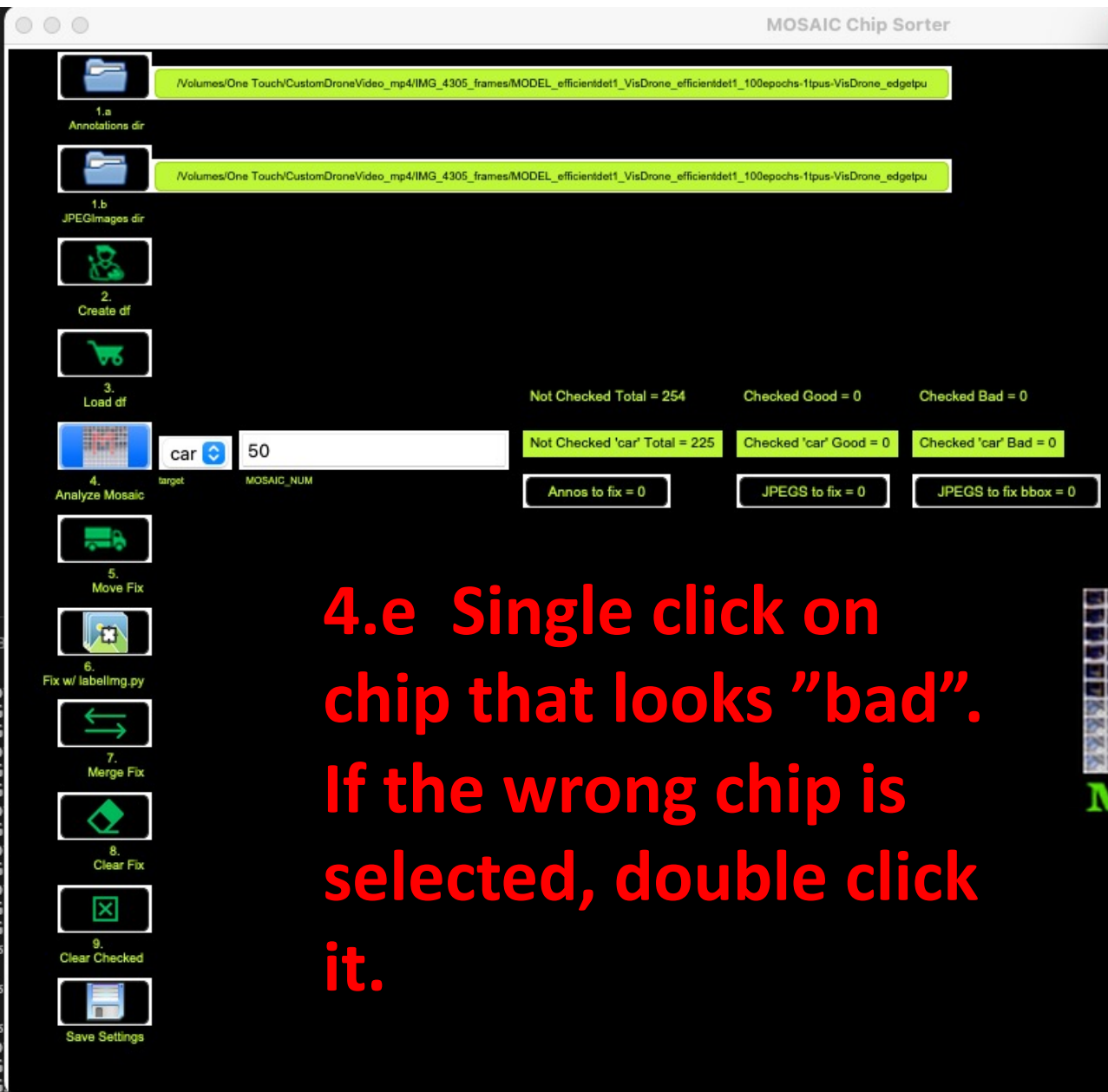
Fix w/ labelling.py



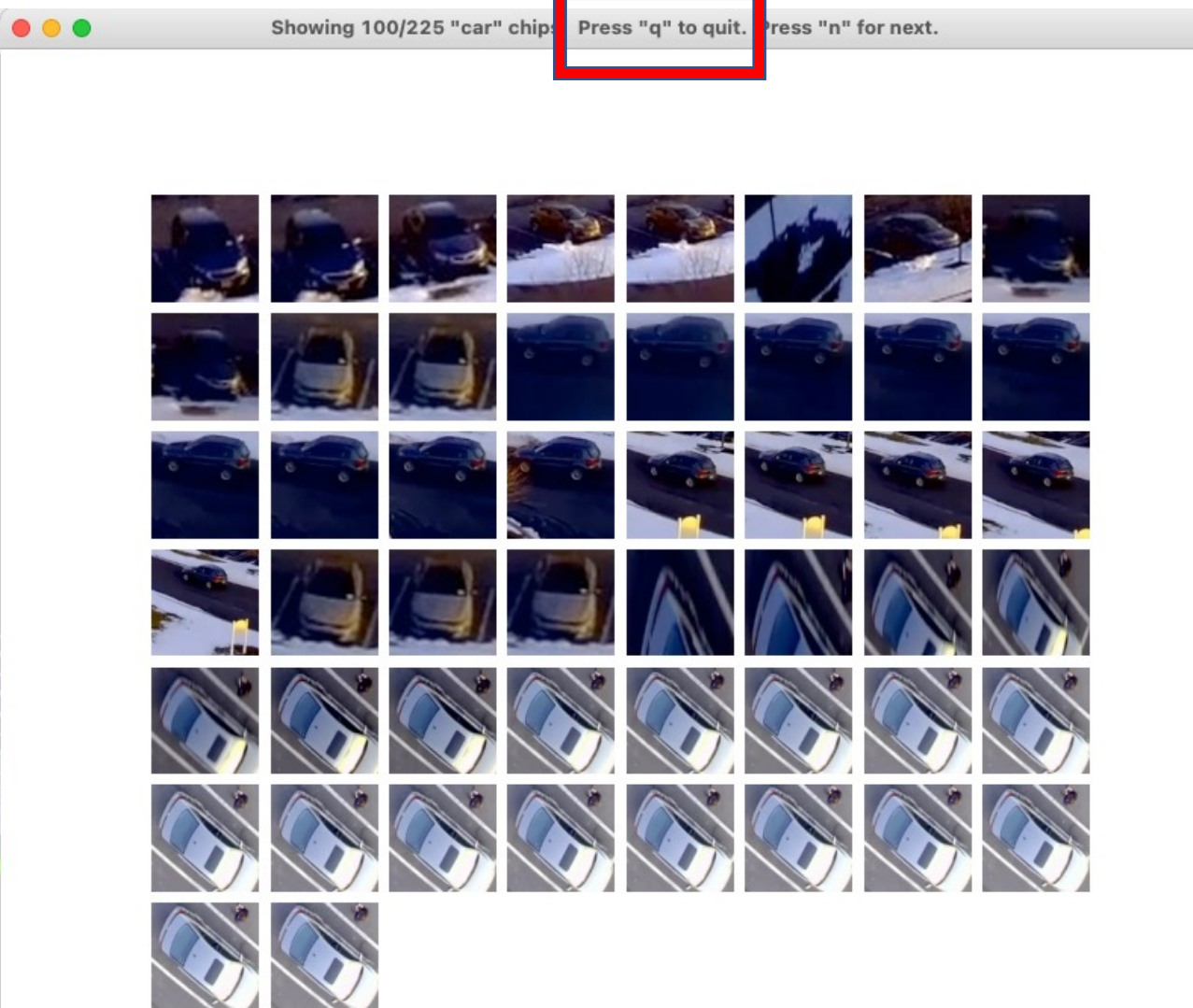
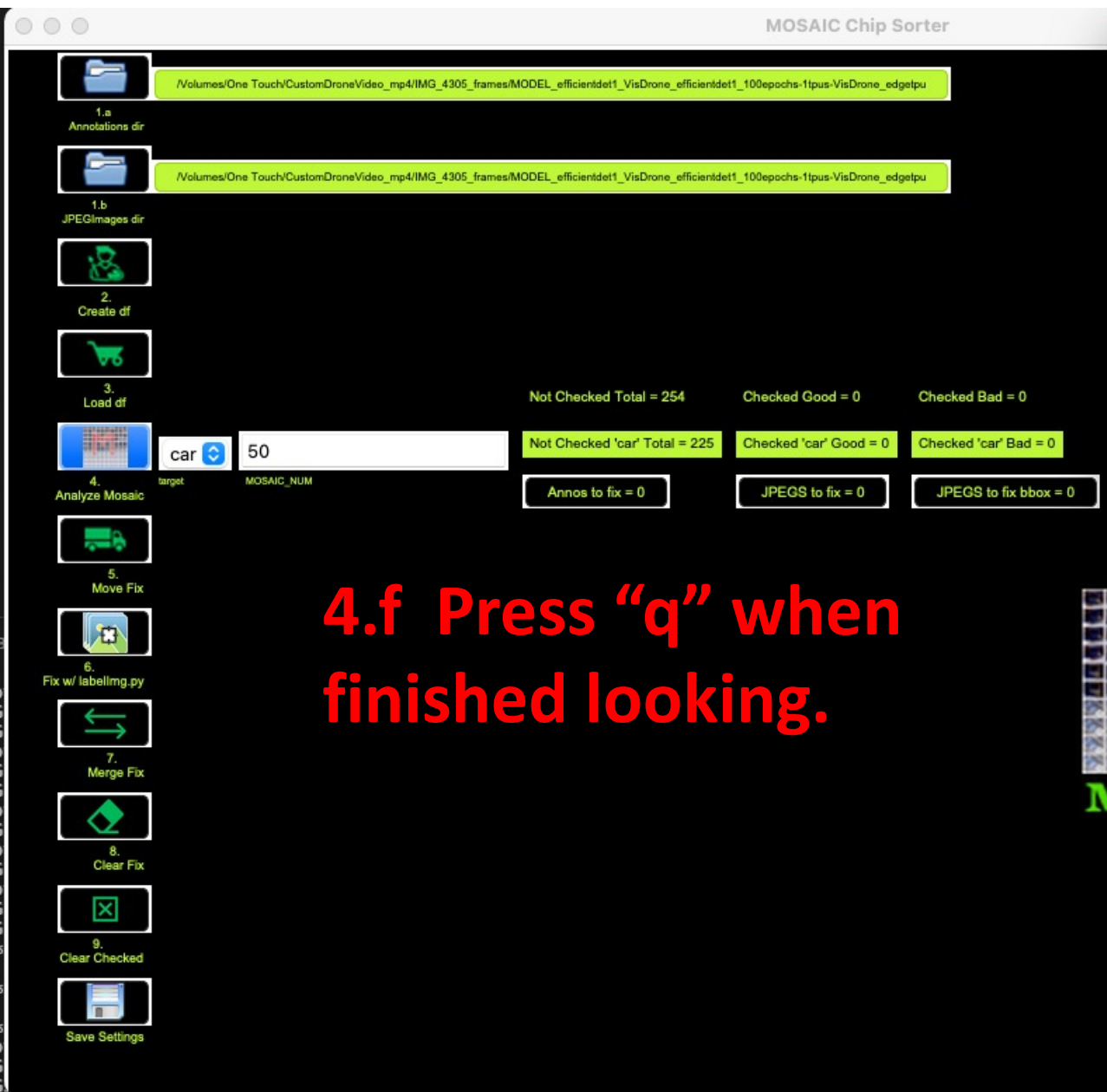
## MOSAIC Chip Sorter











1.a Annotations dir  
/Volumes/One Touch/CustomDroneVideo\_mp4/IMG\_4305\_frames/MODEL\_efficientdet1\_VisDrone\_efficientdet1\_100epochs-1tpus-VisDrone\_edgetpu

1.b JPEGImages dir  
/Volumes/One Touch/CustomDroneVideo\_mp4/IMG\_4305\_frames/MODEL\_efficientdet1\_VisDrone\_efficientdet1\_100epochs-1tpus-VisDrone\_edgetpu

2. Create df

3. Load df

4. Analyze Mosaic  
target: car MOSAIC\_NUM: 50

5. Move Fix

6. Fix w/ labelling.py

7. Merge Fix

8. Clear Fix

9. Clear Checked

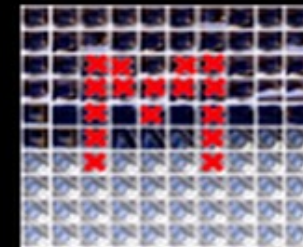
Save Settings

Not Checked Total = 154      Checked Good = 99      Checked Bad = 1

Not Checked 'car' Total = 125      Checked 'car' Good = 99      Checked 'car' Bad = 1

Annos to fix = 0      JPEGs to fix = 0      JPEGs to fix bbox = 0

4.g Verify the number you checked and have left.



**MOSAIC Chip Sorter**

1.a Annotations dir

1.b JPEGImages dir

2. Create df

3. Load df

4. target

5. Move Fix

6. Fix w/ labelling.py

7. Merge Fix

8. Clear Fix

9. Clear Checked

Save Settings

Not Checked Total = 154

Checked Good = 99

Checked Bad = 1

Not Checked 'car' Total = 125

Checked 'car' Good = 99

Checked 'car' Bad = 1

Annos to fix = 0

JPEGS to fix = 0

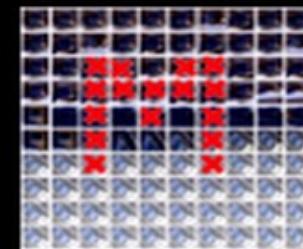
JPEGS to fix bbox = 0

car

50

MOSAIC\_NUM

**5.a Move the files to fix to a temporary directory.**



**MOSAIC Chip Sorter**

1.a Annotations dir  
/Volumes/One Touch/CustomDroneVideo\_mp4/IMG\_4305\_frames/MODEL\_efficientdet1\_VisDrone\_efficientdet1\_100epochs-1tpus-VisDrone\_edgetpu

1.b JPEGImages dir  
/Volumes/One Touch/CustomDroneVideo\_mp4/IMG\_4305\_frames/MODEL\_efficientdet1\_VisDrone\_efficientdet1\_100epochs-1tpus-VisDrone\_edgetpu

2. Create df

3. Load df

4. Analyze Mosaic  
target: car MOSAIC\_NUM: 50

Not Checked Total = 154    Checked Good = 99    Checked Bad = 1

Not Checked 'car' Total = 125    Checked 'car' Good = 99    Checked 'car' Bad = 1

Annos to fix = 1    JPEGs to fix = 1    JPEGs to fix bbox = 1

5. Move Fix

6. Fix w/ labelling.py

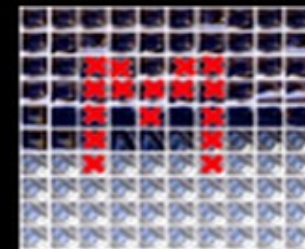
7. Merge Fix

8. Clear Fix

9. Clear Checked

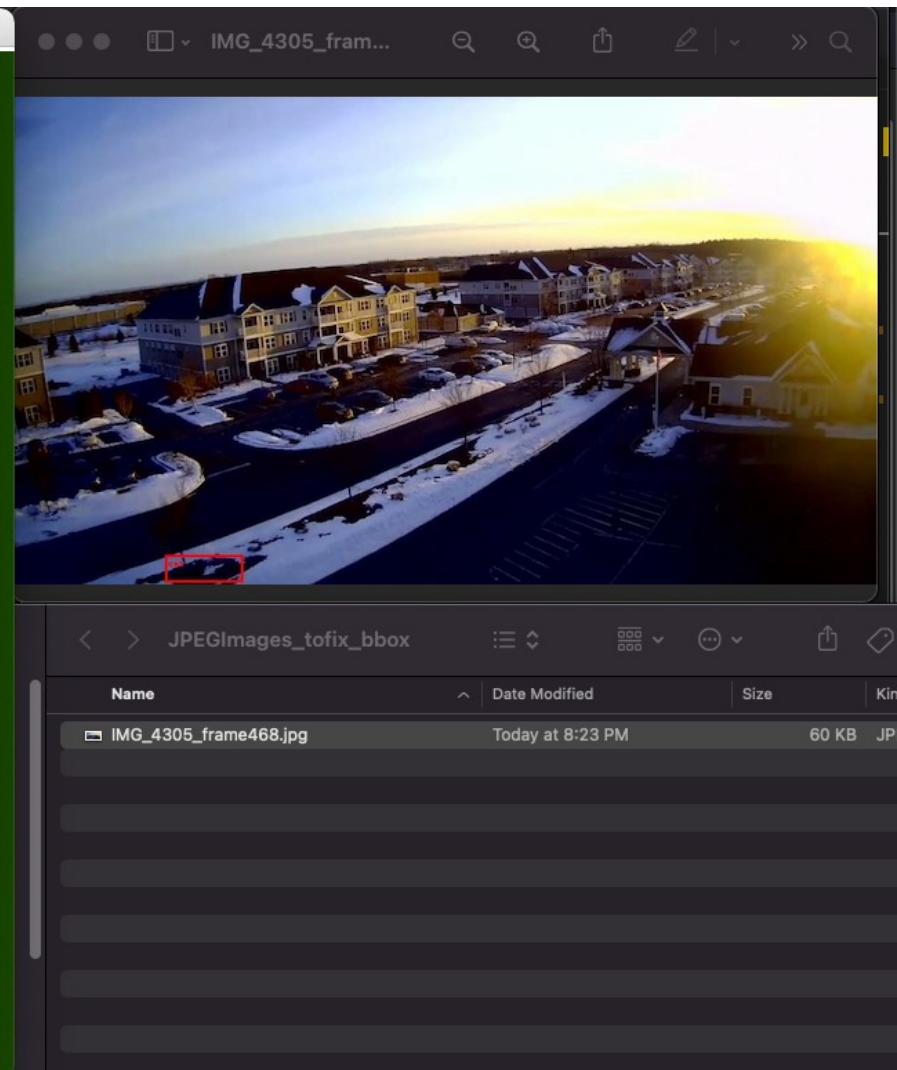
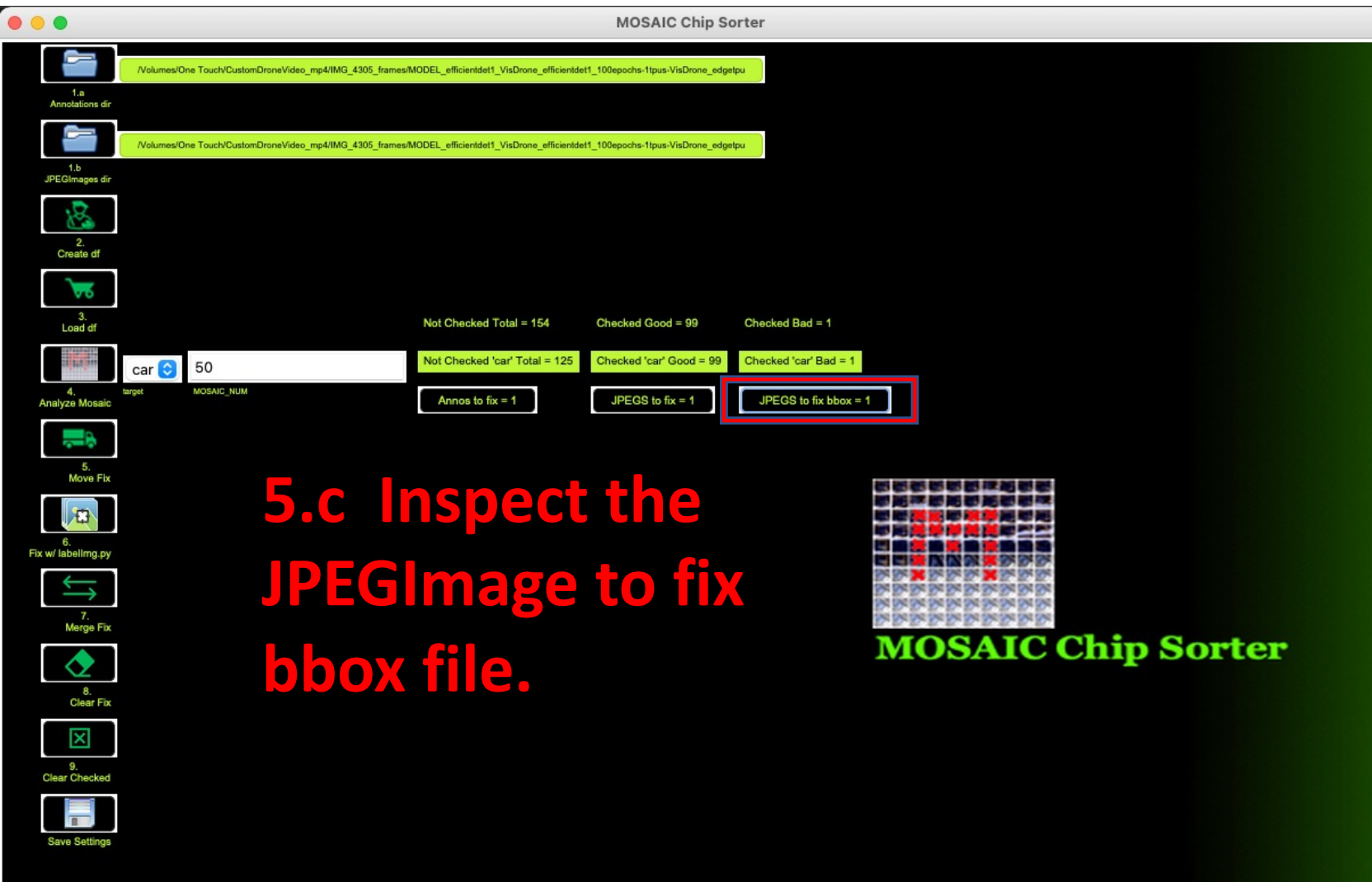
Save Settings

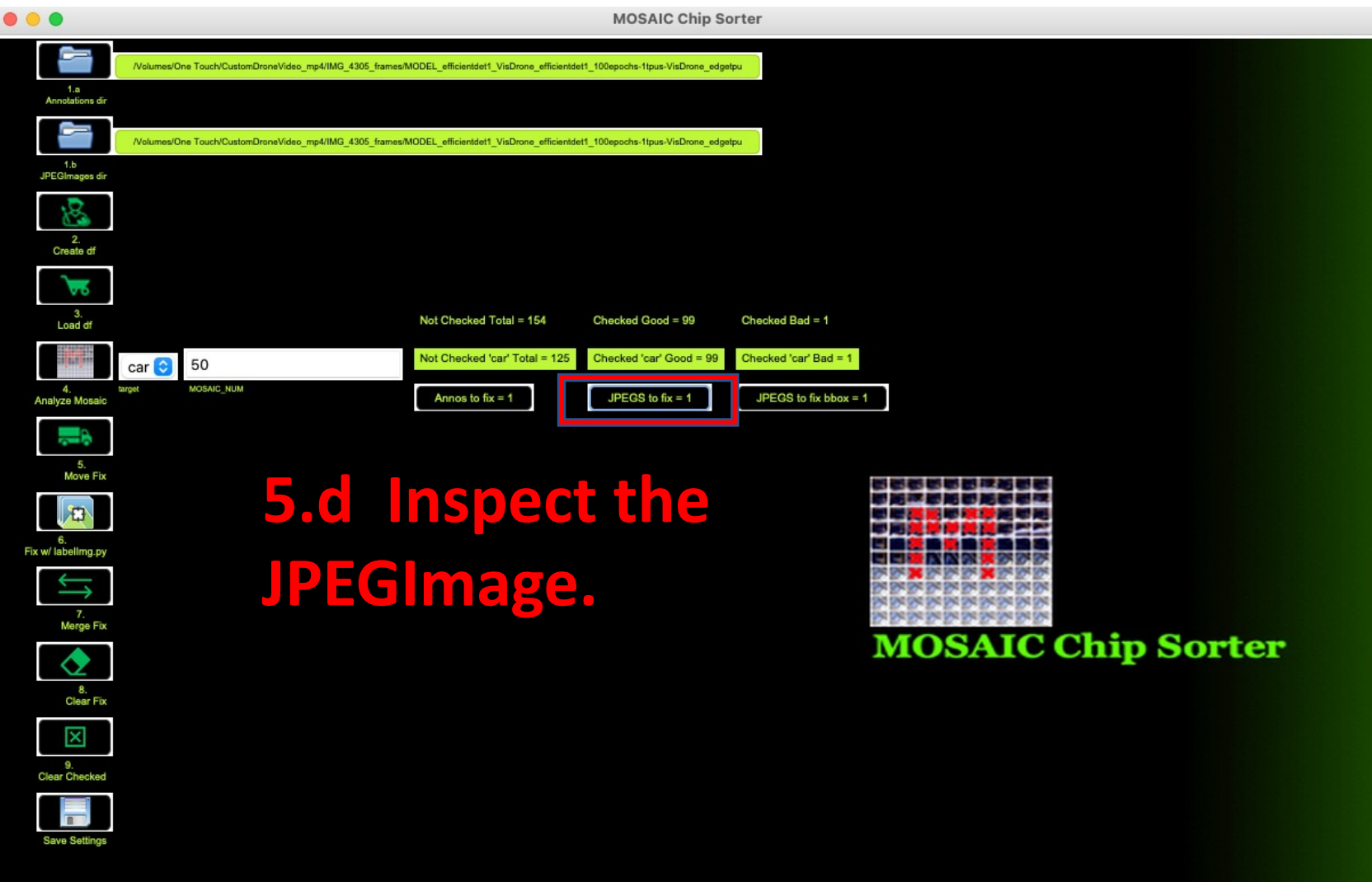
**5.b Notice the update shows the single “bad” file to fix was moved.**



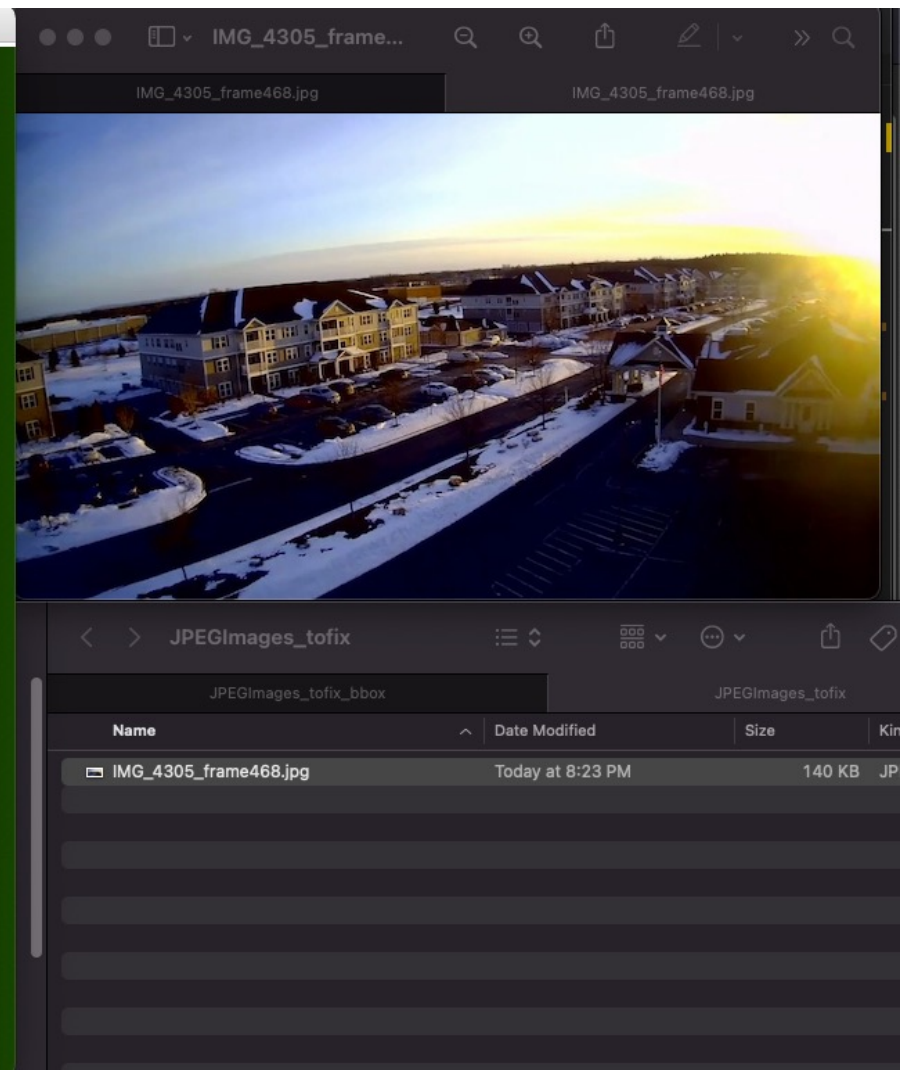
**MOSAIC Chip Sorter**







## 5.d Inspect the JPEGImage.



**MOSAIC Chip Sorter**

1.a Annotations dir  
1.b JPEGImages dir  
2. Create df  
3. Load df  
4. Analyze Mosaic  
5. Move Fix  
6. Fix w/ labelling.py  
7. Merge Fix  
8. Clear Fix  
9. Clear Checked  
Save Settings

Not Checked Total = 154  
Checked Good = 99  
Checked Bad = 1

Not Checked 'car' Total = 125  
Checked 'car' Good = 99  
Checked 'car' Bad = 1

target: car MOSAIC\_NUM: 50

Annos to fix = 1  
JPEGs to fix = 1  
JPEGs to fix bbox = 1

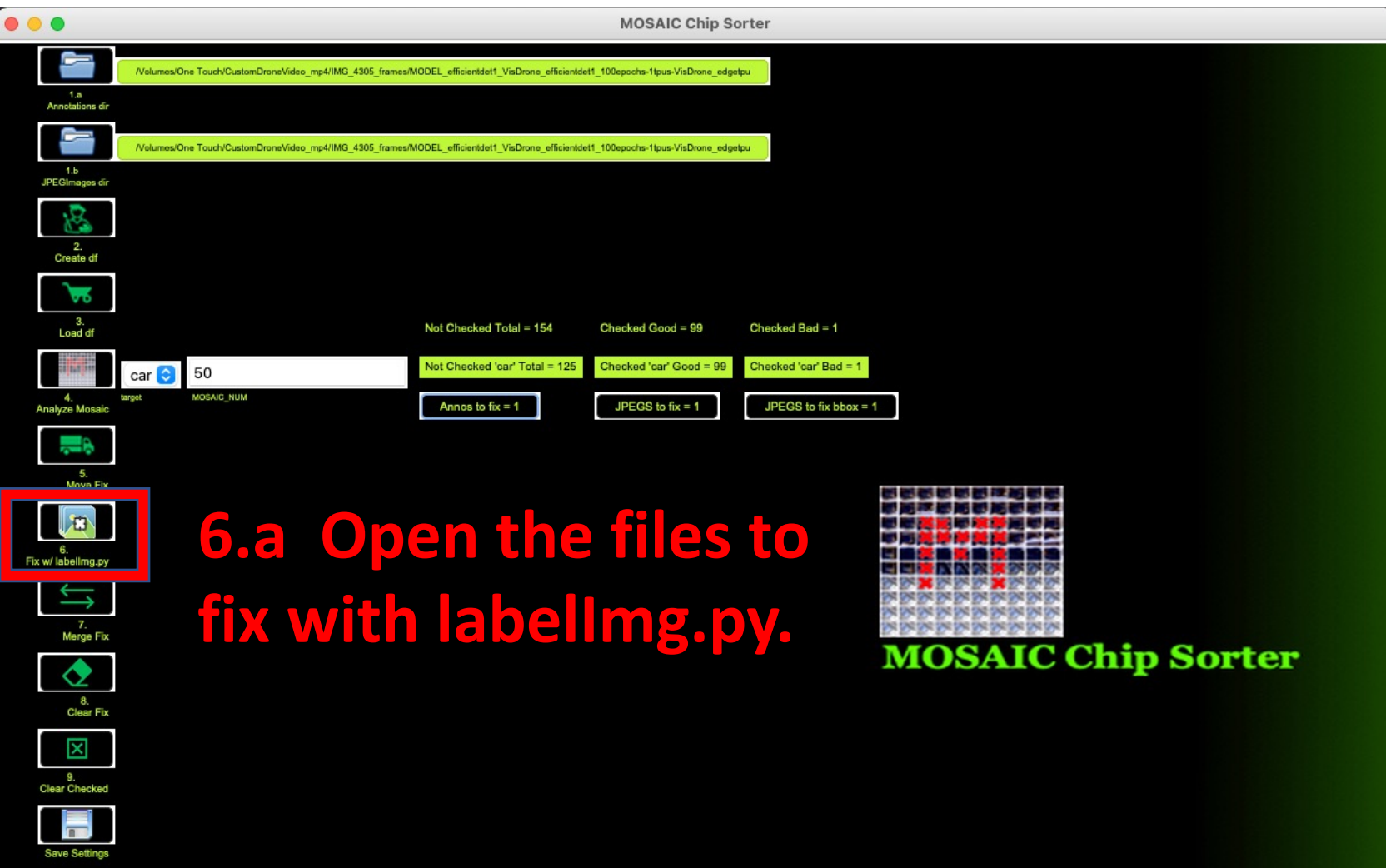
**5.e Inspect the Annotation file to fix.**

**MOSAIC Chip Sorter**

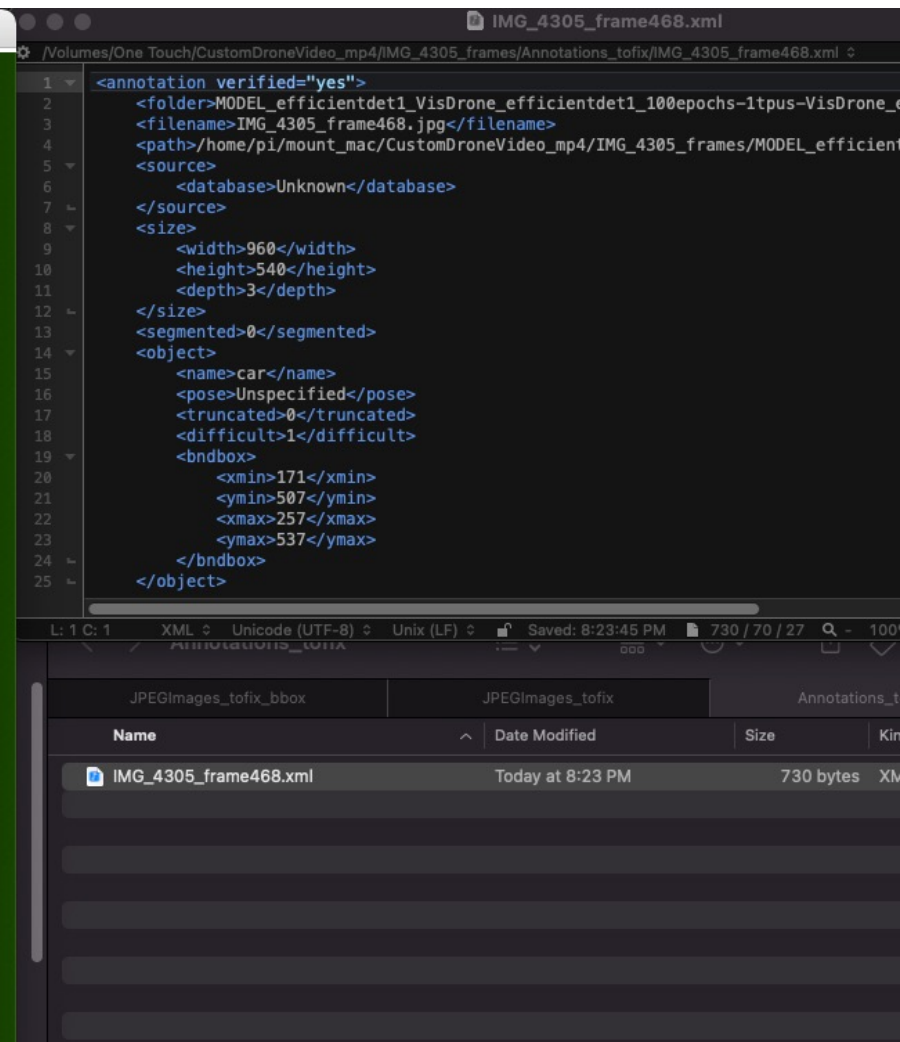
IMG\_4305\_frame468.xml

```
<annotation verified="yes">
  <folder>MODEL_efficientdet1_VisDrone_efficientdet1_100epochs-1tpus-VisDrone_
  <filename>IMG_4305_frame468.jpg</filename>
  <path>/home/pi/mount_mac/CustomDroneVideo_mp4/IMG_4305_frames/MODEL_efficient
  <source>
    <database>Unknown</database>
  </source>
  <size>
    <width>960</width>
    <height>540</height>
    <depth>3</depth>
  </size>
  <segmented>0</segmented>
  <object>
    <name>car</name>
    <pose>Unspecified</pose>
    <truncated>0</truncated>
    <difficult>1</difficult>
    <bndbox>
      <xmin>171</xmin>
      <ymin>507</ymin>
      <xmax>257</xmax>
      <ymax>537</ymax>
    </bndbox>
  </object>
```

Name	Date Modified	Size	Kind
IMG_4305_frame468.xml	Today at 8:23 PM	730 bytes	XML



6.a Open the files to  
fix with labelling.py.





1.a Annotations dir  
/Volumes/One Touch/CustomDroneVideo\_mp4/IMG\_4305\_frames/MODEL\_efficientdet1\_VisDrone\_efficientdet1\_100epochs-1tpus-VisDrone\_edgetpu

1.b JPEGImages dir  
/Volumes/One Touch/CustomDroneVideo\_mp4/IMG\_4305\_frames/MODEL\_efficientdet1\_VisDrone\_efficientdet1\_100epochs-1tpus-VisDrone\_edgetpu

2. Create df

3. Load df

4. Analyze Mosaic  
target: car MOSAIC\_NUM: 50  
Not Checked Total = 154    Checked Good = 99    Checked Bad = 1  
Not Checked 'car' Total = 125    Checked 'car' Good = 99    Checked 'car' Bad = 1  
Annos to fix = 1    JPEGs to fix = 1    JPEGs to fix bbox = 1

5. Move Fix

6. Fix w/ labellmg.py  
Please provide a valid labellmg.py path.  
Current path is: /Volumes/One Touch/labelling/labellmg.py

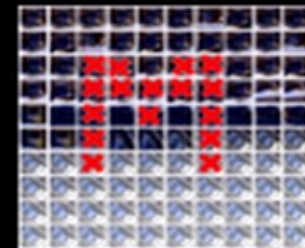
7. Merge Fix

8. Clear Fix

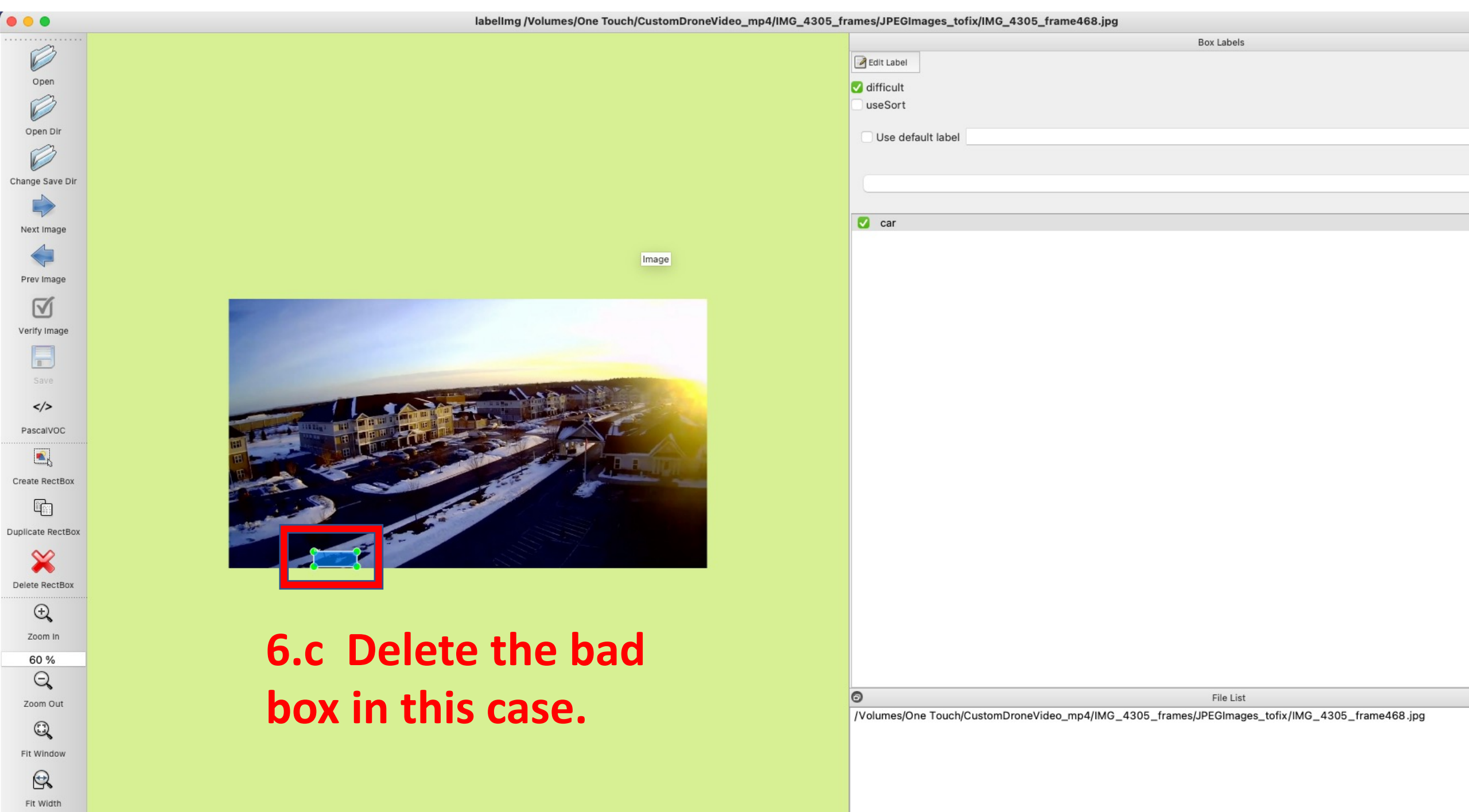
9. Clear Checked

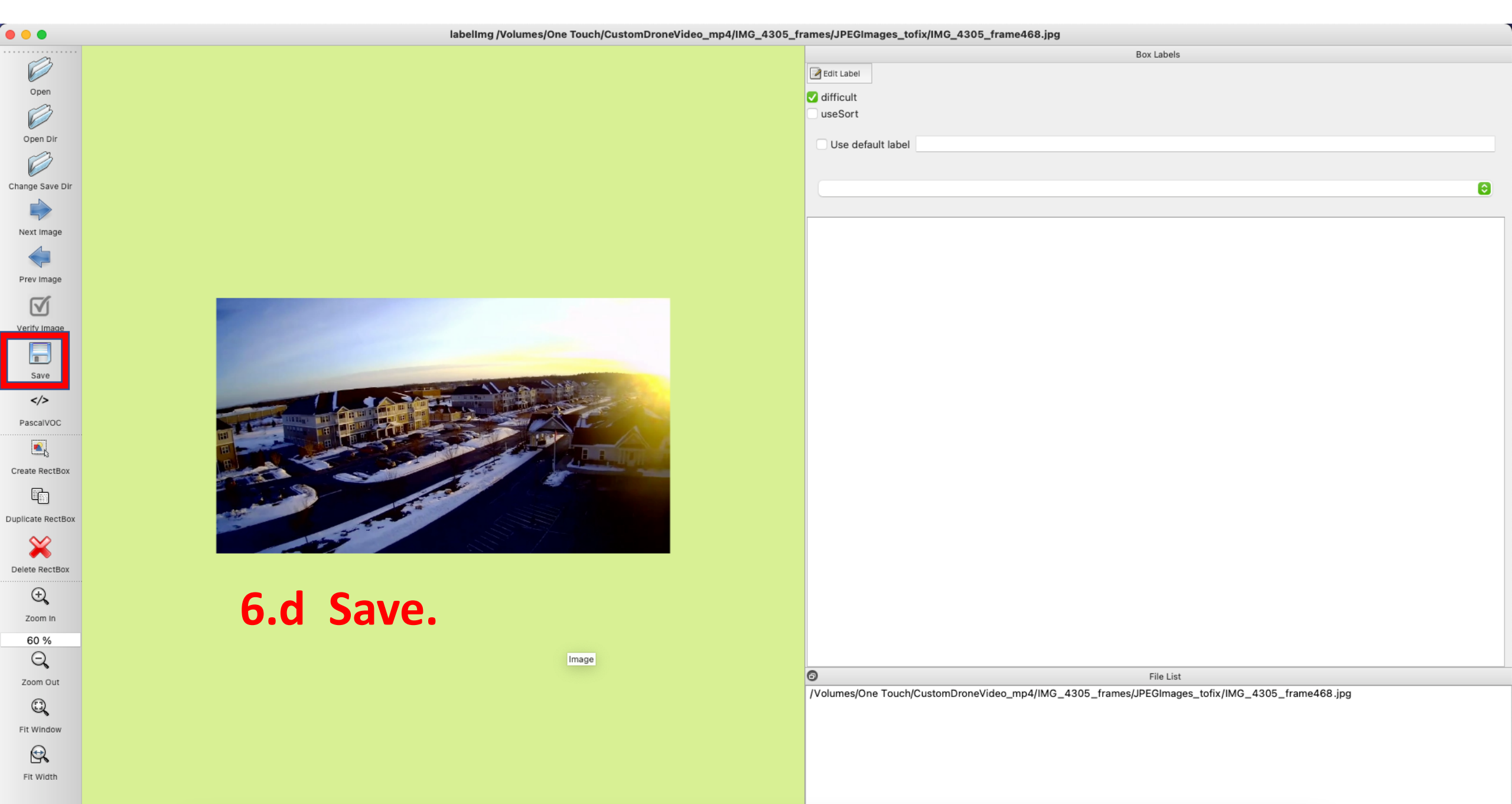
Save Settings

**6.b Point to path of  
your labellmg.py.**



**MOSAIC Chip Sorter**





6.d Save.

Image

Box Labels

Edit Label

☒ difficult

☐ useSort

☐ Use default label

File List

/Volumes/One Touch/CustomDroneVideo\_mp4/IMG\_4305\_frames/JPEGImages\_tofix/IMG\_4305\_frame468.jpg

1.a Annotations dir  
/Volumes/One Touch/CustomDroneVideo\_mp4/IMG\_4305\_frames/MODEL\_efficientdet1\_VisDrone\_efficientdet1\_100epochs-1tpus-VisDrone\_edgetpu

1.b JPEGImages dir  
/Volumes/One Touch/CustomDroneVideo\_mp4/IMG\_4305\_frames/MODEL\_efficientdet1\_VisDrone\_efficientdet1\_100epochs-1tpus-VisDrone\_edgetpu

2. Create df

3. Load df

4. Analyze Mosaic  
target: car MOSAIC\_NUM: 50  
Not Checked Total = 154    Checked Good = 99    Checked Bad = 1  
Not Checked 'car' Total = 125    Checked 'car' Good = 99    Checked 'car' Bad = 1  
Annos to fix = 1    JPEGs to fix = 1    JPEGs to fix bbox = 1

5. Move Fix

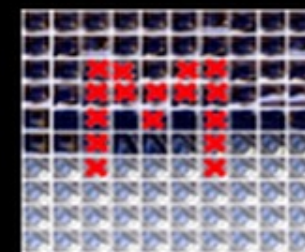
6. Fix w/ labelmap.py

7. Merge Fix

8. Clear Fix

9. Clear Checked

Save Settings



**MOSAIC Chip Sorter**

**7.a Merge the fixes  
made to your original  
directories of  
Annotations/JPEGs.**





/Volumes/One Touch/CustomDroneVideo\_mp4/IMG\_4305\_frames/MODEL\_efficientdet1\_VisDrone\_efficientdet1\_100epochs-1tpus-VisDrone\_edgetpu

1.a

Annotations dir



/Volumes/One Touch/CustomDroneVideo\_mp4/IMG\_4305\_frames/MODEL\_efficientdet1\_VisDrone\_efficientdet1\_100epochs-1tpus-VisDrone\_edgetpu

1.b

JPEGImages dir



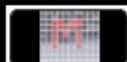
2.

Create df



3.

Load df



4.

Analyze Mosaic

car

50

target

MOSAIC\_NUM

Not Checked Total = 253      Checked Good = 0      Checked Bad = 0

Not Checked 'car' Total = 224      Checked 'car' Good = 0      Checked 'car' Bad = 0

Annos to fix = 0      JPEGs to fix = 0      JPEGs to fix bbox = 0



5.

Move Fix



6.

Fix w/ labelling.py



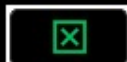
7.

Merge Fix



8.

Clear Fix



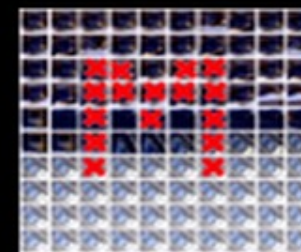
9.

Clear Checked



Save Settings

**7.b Notice  
everything is reset  
now and that chip  
will no longer show.**



**MOSAIC Chip Sorter**