

# Title: README for Create COCO Format Annotation

## **Document Number:**

# **CTI One Corporation**

## **Table 1a. Document History**

2022-08-05	Establish this document, document archive:	ZW
	/media/harry/easystore1/backup-2020-2-15/CTI/	
	3proejcts/3-8-smart-tech/3-8-4-CTI/3-8-4-6-products/	
	CV100/102-algorithm-source-code-documents/102n-	
	yolact/102n-1-readme-yolact\$	
2022-09-12	Update	YY

# Table 1b. Testing and Release Approval Form

2022-09-12	Tested by ZW and approved for release by HL	Pending for testing and approval

### **Table 2. References**

Number	Name and URL	Note
1.	VGG Image Annotator <a href="https://www.robots.ox.ac.uk/~vgg/software/via/via demo.html">https://www.robots.ox.ac.uk/~vgg/software/via/via demo.html</a>	
2.	Training your own Data set using Mask R-CNN for Detecting Multiple Classes	



https://medium.com/analytics-vidhya/ training-your-own-data-set-using-mask-r-cnn- for-detecting-multiple-classes-3960ada85079	



# Table 3. Prerequisite

Software Prerequisite	Description and Version	Note
No.		
1	5 images with persons	
Hardware	Description and Version	
Prerequisite		
No.		
	None	



## 1. Open the training website

### 1.1. Open the website

Website link: <a href="https://www.robots.ox.ac.uk/~vgg/software/via/via\_demo.html">https://www.robots.ox.ac.uk/~vgg/software/via/via\_demo.html</a>

#### 1.2. Delete the original two images

Click the "Remove" button to delete the images.

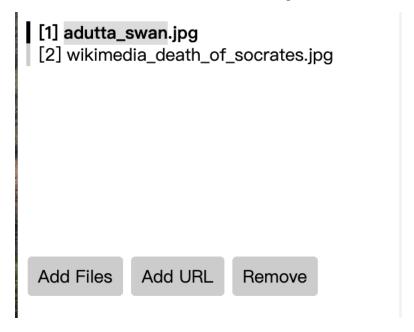


Figure 1. Original image

#### 1.3 Add images that need to be trained

In the menu bar, choose Project  $\rightarrow$  Add local files  $\rightarrow$  choose the images

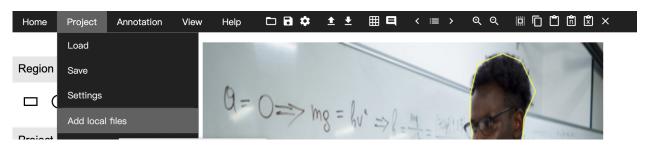


Figure 2. Menu bar



## 2. Set the name, super category and id of the images.

2.1 In the "Attributes", choose "Region Attributes"

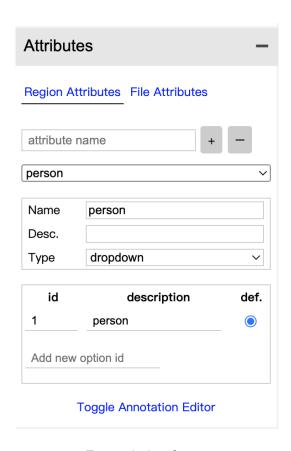


Figure 3. Attributes

2.2 In the Attributes, choose the "name" as the Attributes

In "Type" part, change the Type as "dropdown"



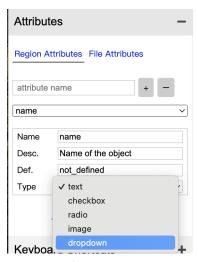


Figure 4. Change Type

2.3 In the "Name" part, change "name" to "person".

After changing to "person", hit "return" key

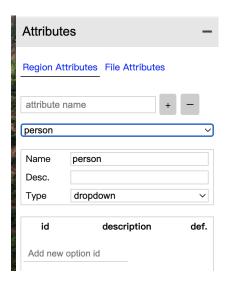


Figure 5. Change Name

 $2.4\ Choose\ the\ "person"\ category\ that\ just\ be\ changed.$ 





Figure 6. Change category



2.5 In the "id" part, set "id" as 1, and check in "def.", then hit "return" key

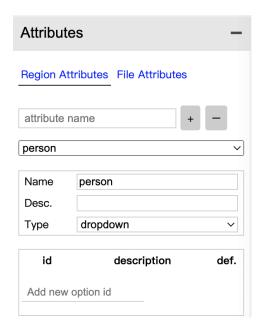


Figure 7. Set ID

2.6 Set description as "person" and check the def.



Figure 8. Set description and def.

- 2.7 Delete the other two categories
  - a. In "Attributes" check how many categories there are.



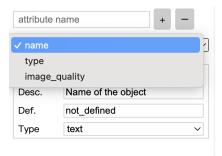


Figure 9. Number of categories

b. Input the name of the categories which needs to be deleted and click "-". Delete type and image\_quality.



Figure 10. Delete Categories

## 3. Create the training image data

- 3.1 Choose one image, show the image in the operation view.
- 3.2 Choose the region shape to outline the person in the image  $\mbox{Choose the $4^{th}$ region shape from left.}$

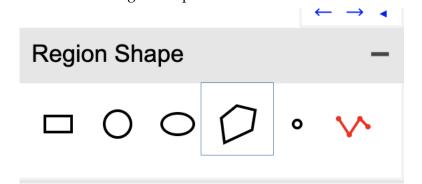


Figure 11. Region Shape



Outline the person in the image.

After outlining the person, hit "return" key to finish writing the outline.



Figure 12. Person

# 4. Export the Annotation

4.1 Save the Swift Package project.

In Menu bar, choose Annotation  $\rightarrow$  Export Annotations(COCO format)



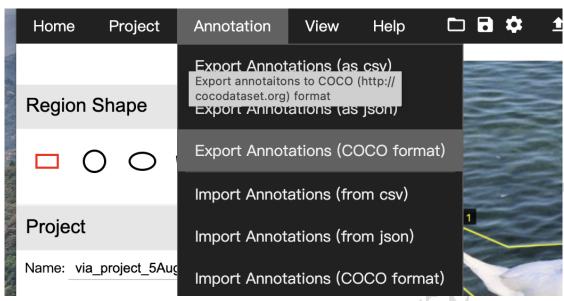


Figure 13. Export Annotations

(END)