Annotation Instructions

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Overview

- → In this task you will be adding bounding boxes and attributes to vehicles, and human bodies for images.
- → Vehicles, and human bodies have specific requirements on when to add a bounding box. Make sure you understand the different requirements for these two classes before you begin annotation.

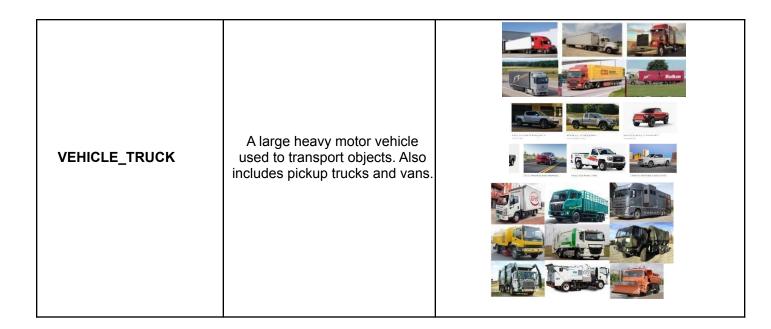
Steps

- 1. Make sure there is only **one bounding box per target:**
 - One box per Human Body, minimum size requirement is 30 pixels diagonal.
 - One box per Vehicle, minimum size requirement is 30 pixels diagonal.
- 2. After drawing the bounding box, make sure to provide the correct label for the occlusion attribute.

Ontology

Classes Definitions

Class	Description	Example
HUMAN_BODY	Unique requirements are defined for the percent of visibility required to annotate humans.	
VEHICLE_BICYCLE	A small human powered two wheeled vehicle.	The Cost - Principle Buyeles [restlier-pine com The Cost - Therappe Buyeles [restlier-pine com Amazon com Ama
VEHICLE_BOAT	A vessel propelled on water by oars, sails, or an engine.	of the office of the control of the
VEHICLE_MOTORCYC LE	A small two wheeled motorized vehicle. Includes motorcycles and motor scooters.	Homing Riches Style MEW 1 DELENDING Bright Style MeW 1902 Translation on the Mew 1902 Translation of the Mew 1902 Translation



N.B: The above table contains a non exhaustive ontology of **VEHICLES**. The entire set is comprised of:

- BICYCLE
- BOAT
- BUS
- CAR (includes SUV)
- MOTORCYCLE
- OTHER
- TRUCK (includes Minivan, Cubevan, and Pickup_truck)

Attributes Definitions

Occlusion: NONE/PARTIAL

Description Example If more than 85% percent of the target is visible, the occlusion attribute should be: NONE The targeted person on the motorcycle is completely visible Between 15% and 85% of target visibility, the Only about 50% of the targeted person occlusion attribute should be: on the motorcycle is visible **PARTIAL** Less than 85% of the targeted truck is cut off by the edge of the photo.

Annotation Instructions

BOUNDING BOX Instructions

Instructions:

For each image, make sure you:

- → Use only one box for each Target.
- → Scan the whole image and annotate every single target.
- → Understand the subtleties of the requirements before you start the annotation.

 VEHICLES and HUMAN_BODY have specific bounding box requirements and minimum size requirements.
- → Center the bounding box around the target and tighten the bounding box.
- → Use the zoom function to ensure the targets are tightly annotated.

Illustration:

Description	Example
Draw a VERY tight rectangle around each target.	Too Big Too Small Perfect
Draw a single rectangle around each target. Do not group targets inside a rectangle.	X NO YES
 Draw tight rectangles even if the objects are partially occluded. (see the following sections for requirements on occlusion). 	Perfect!! Perfect!! Perfect!!

"VEHICLE" Annotation Instructions

Instructions:

When annotating a VEHICLE, make sure you:

- → Add a bounding box around vehicles with a minimum size of 30 pixels diagonal.
- → Select the correct vehicle class.
- → Only draw the box over vehicles that are over 50 percent visible.
 - ◆ In other words, annotate if at least one of the sides (back, front or side of the car) is 50 percent visible or more. Examples :
 - Annotate if the rear end of the car (trunk) is at least 50% visible.
 - Annotate If the front end of the car (hood) is at least 50% visible.

Examples:

This truck should be annotated. Only the side is visible, and since the side is more than 50 percent visible, this vehicle should be annotated. This car should be annotated. The side of the car is more than 50% visible, therefore this car should be annotated

This car should be annotated. Since the back is visible and is just over 50 percent visible, this should be annotated.



This car should not be annotated. Even though the back of the vehicle is visible in the picture, only the lights and license plates are visible therefore the vehicle is less than 50% visible.



This car should not be annotated. Since only the side of the car is visible and the side of the car is less than 50 percent visible this car should not be annotated.



"HUMAN_BODY" Annotation Instructions

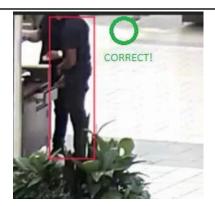
Instructions:

When annotating a HUMAN_BODY, make sure you:

- → Add a bounding box around human bodies with a minimum size of 30 pixels diagonal.
- → Annotate the human body :
 - when both the body (torso) and the legs/leg are visible (more than 80%), if the head is not visible (either occluded or out of Field Of View).
 - when the shoulder(s) and partial arm/arms at least are also visible, if the head is visible.
- → Only annotate the visible portions of the body. Do not annotate the occluded parts of the human body.

Examples:

The head of this human is not in the field of view and his body is more than 80% visible so this human should be annotated.



This human should be annotated, since his head, shoulders and arms are visible.

N.B: Only include the visible portions of the person in the box. As you see on the right, the legs that are occluded by the table are not boxed since the legs are not visible, so this is correct.



These should not be annotated since the head of the human is not in the field of view and his body is less than 80% visible.



