

## Job Type and Detection Guide

The task is a keypoint annotation of people on images. The task for the annotation project is to put up to 18 key points in the right position on the desired object on the images.

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## Classes and their Descriptions

| Classes   | Annotation Type | Attributes list                |
|---|-----------------|--------------------------------|
| 1 Nose<br>2 Left Eye<br>3 Right Eye<br>4 Left Ear<br>5 Right Ear<br>6 Left Shoulder<br>7 Right Shoulder<br>8 Left Elbow<br>9 Right Elbow<br>10 Left Wrist<br>11 Right Wrist<br>12 Left Hip<br>13 right Hip<br>14 Left Knee<br>15 Right Knee | Point tool      | <b>Visibility:</b> Not visible |



|                |  |  |
|----------------|--|--|
| 16 Left Ankle  |  |  |
| 17 Right Ankle |  |  |
| 18 Neck        |  |  |

## Annotation Technique

For the annotation project, the annotation process should be completed by putting key points on the present persons on the images and assigning visibility attributes to the points that are occluded and their position is estimated.

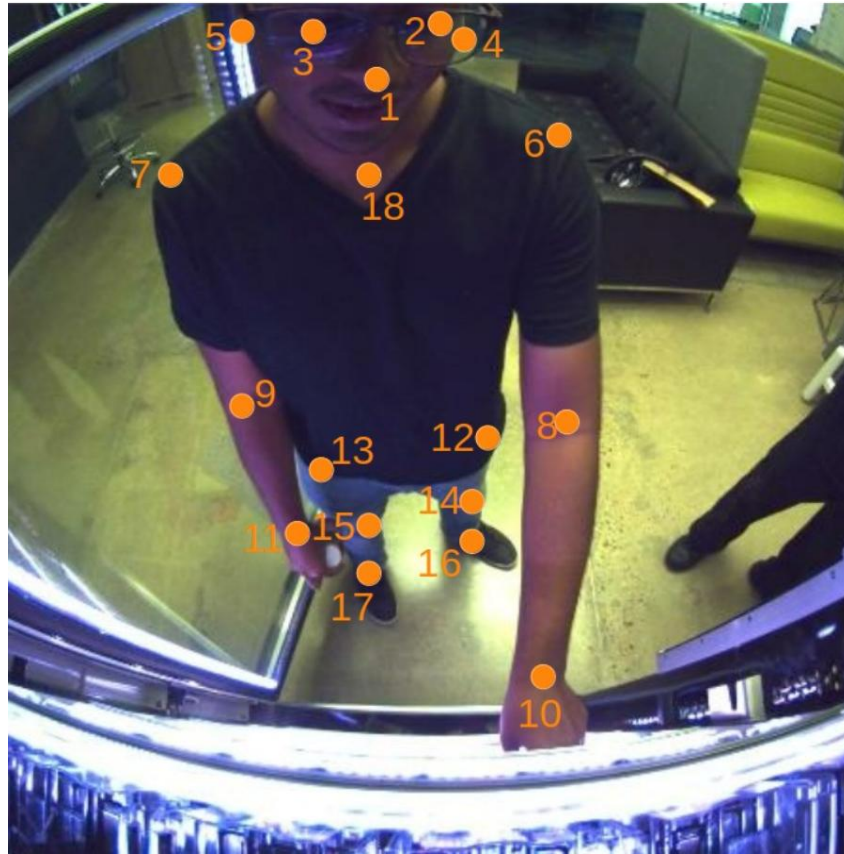
**IMPORTANT!** For the annotators on the platform will be set up the workflow which will automatically change the point class with the already **PREDEFINED “Not Visible”** attribute.

**IMPORTANT!** Please make sure that after all points are set, the annotator **removes** the attribute from those points that are **VISIBLE as per the instruction requirements!**

**IMPORTANT!** Points should be placed on the person's body, they shouldn't be placed in the air. Always check the point position by zooming in.

**IMPORTANT!** Points placement should have position consistency. Based on the human movement into the sequence the points can jump a bit around the same area, but they shouldn't jump too much over the same area.

In the provided image below please find the position where the points should be set.



**Notes:**

1. Annotator should annotate points only for those body parts that are present on the images, meaning if the hand is out of the image – annotator should skip those points and do not annotate them.
2. The object is considered fit to be annotated **when there are more than four key points** associated with the object in reference **with at least one visible shoulder and neck**.
3. The point is considered **visible if the annotator can see the human skin**.
4. If the pose of the person is covering some part of the body, **the annotator should do best estimations and predict points position**, after annotation those points annotator should mark those points and put attribute **“Not visible”**.



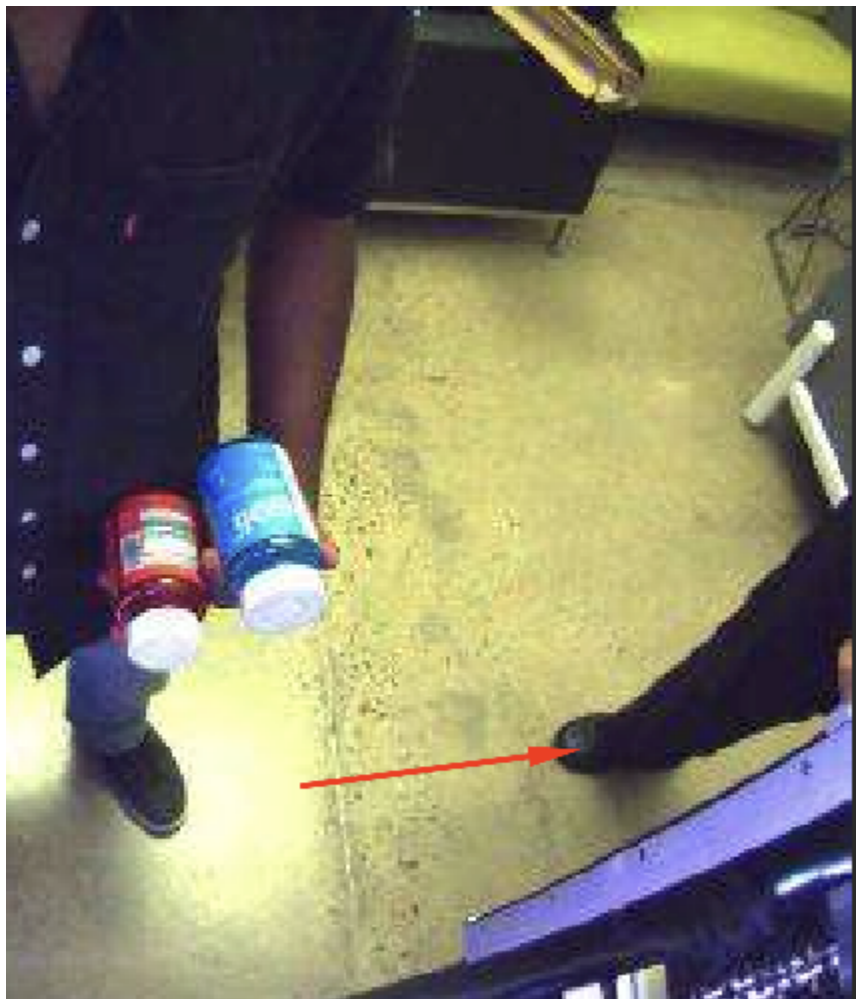
5. If a person wears a mask \ scarf \ sunglasses \ etc. that covers the body part annotator should annotate those points and put attribute **"Not visible"**
  - a. All types of occlusions (mask, clothing, sunglasses, scarf and other textile objects) should be labeled and marked as **"Not visible"**
  - b. However, occlusion introduced by foreign objects (cans, metal pipes etc.) are not labeled.
6. After annotating all necessary points, the annotator should group all points(CTRL+G) that are related to one person. Do the same for each present and annotated person. *(Make sure all necessary points are included into one group)*

## Edge Cases with Examples

**Below** please find the edge cases when the present person on the images should not be annotated.

### Example

1. For given picture ignore the leg of the secondary person



2. In the provided example the “Shoulder” point is visible, but there are only 3 visible points therefore do not annotate the mentioned person.



3. In the provided image there are more than 4 visible points, but the “Shoulder” point or “neck” point are not visible, therefore the person shouldn’t be annotated.



7. When the person is occluded by a foreign object, do not annotate key points. For this example we will ignore as the shoulder or neck is not visible.



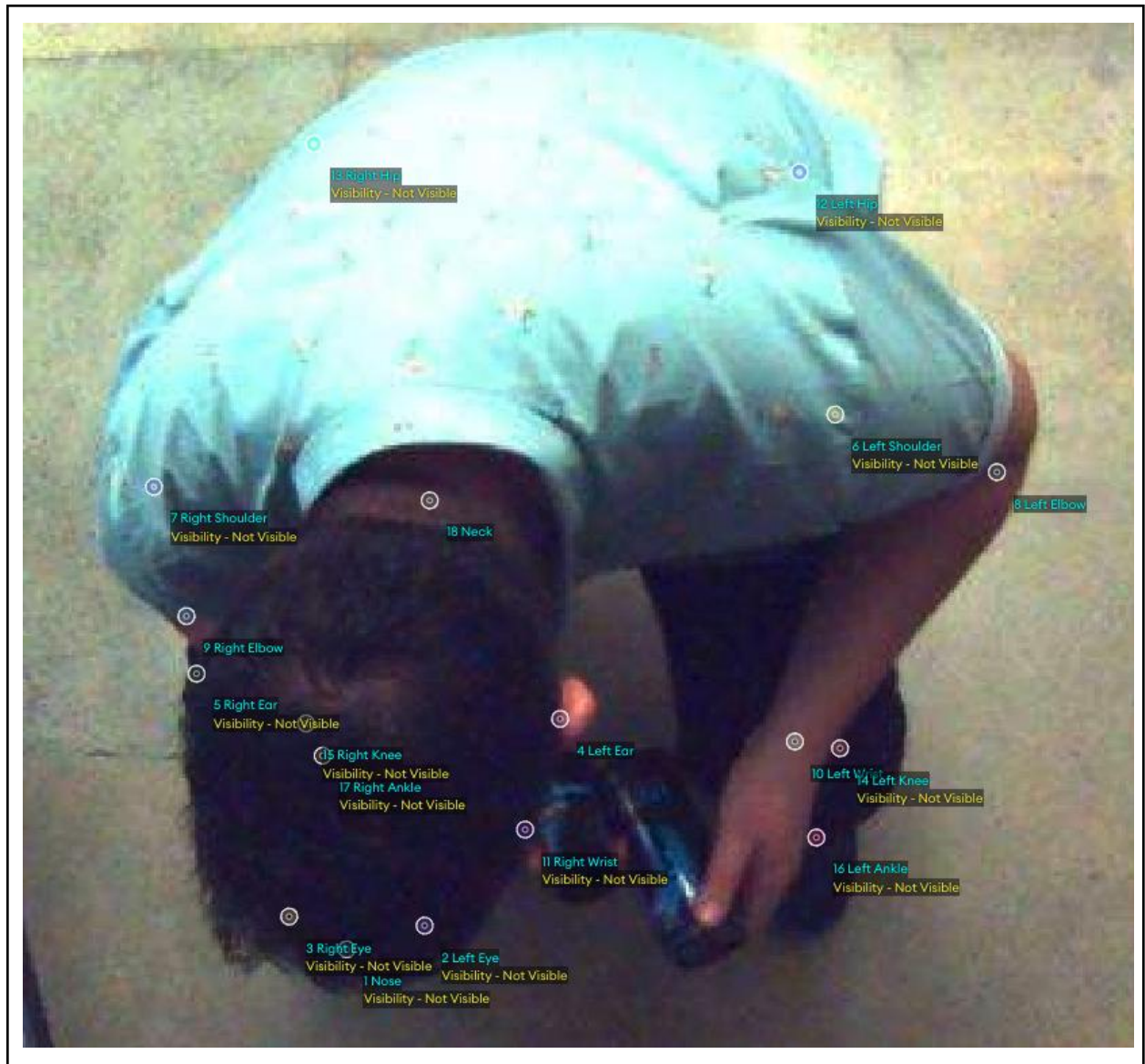
8. The the pose of the person is covering some part of the body, annotator should do his best estimations and predict points position and annotate them by putting attribute "Not Visible"



9. The the pose of the person is covering some part of the body (those parts maybe even not visible), annotator should do his best estimations and predict points position and annotate them by putting attribute "Not Visible"







## Acceptable Annotation Example

Example









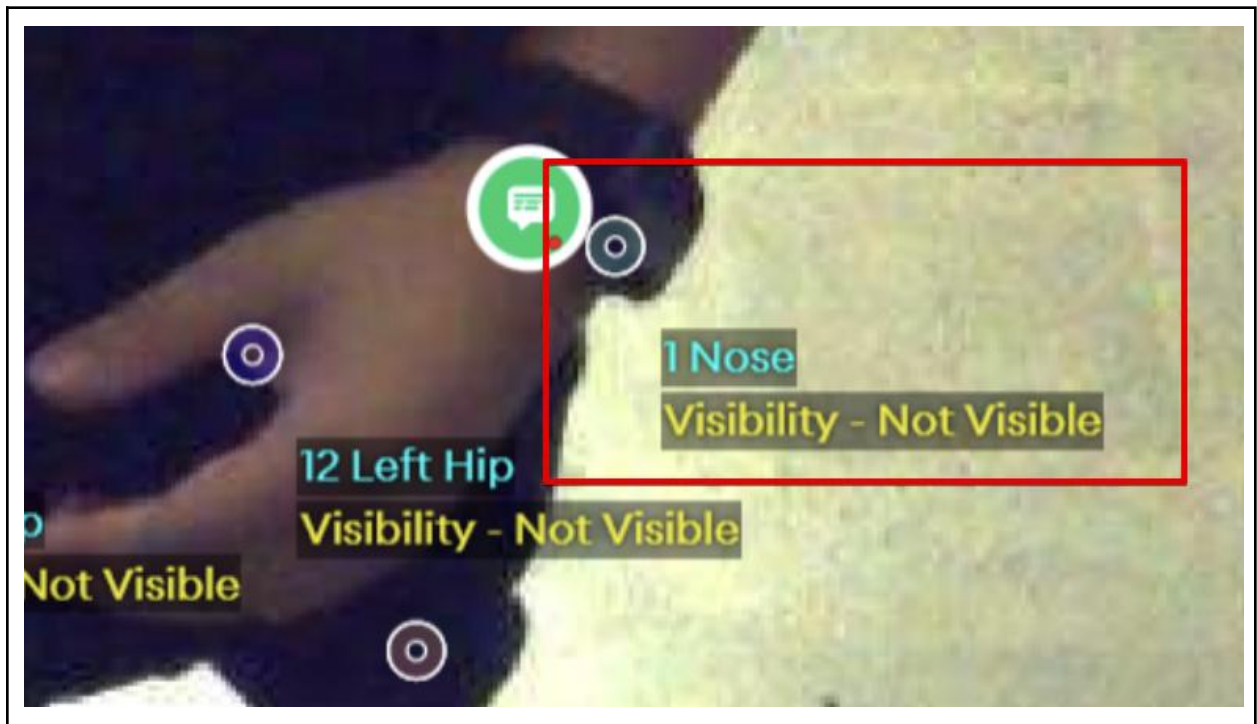


## Annotation Mistakes

1. The point is placed in the air, not on the person's body.



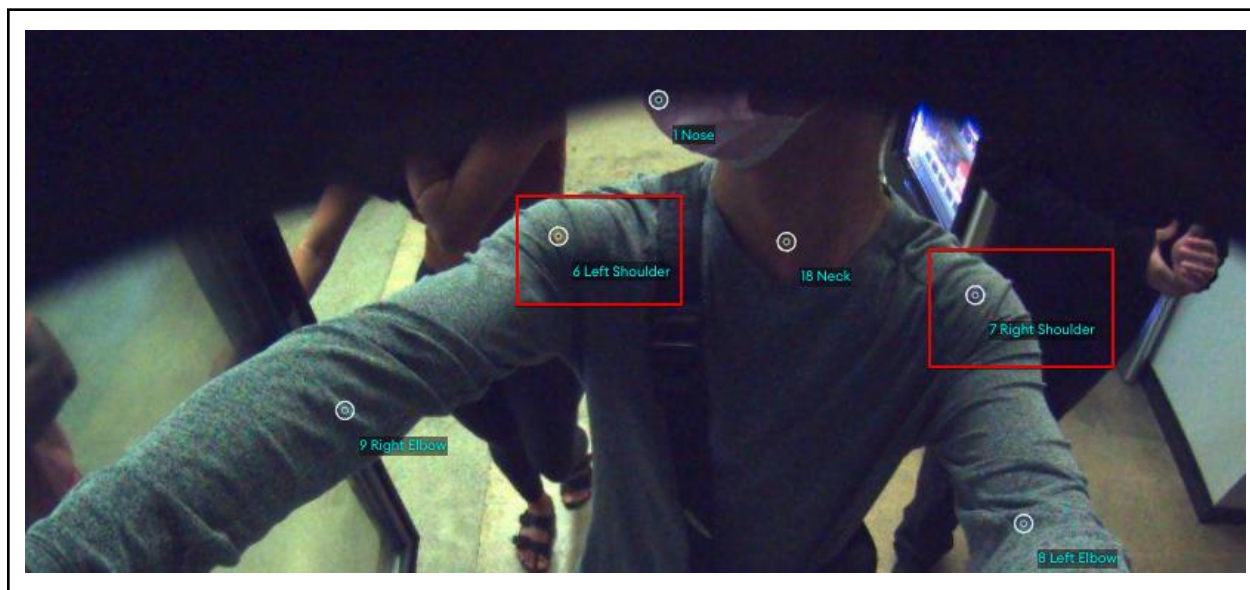
2. Wrong point position or wrong annotated class.



3. Several same points in the same position with different classes or with the same one.



4. Wrong side of selected points. Annotators should make sure that they put annotated points based on the right and left side of the human.



5. Ungrouped point. All points that are related to the same person should be grouped.

