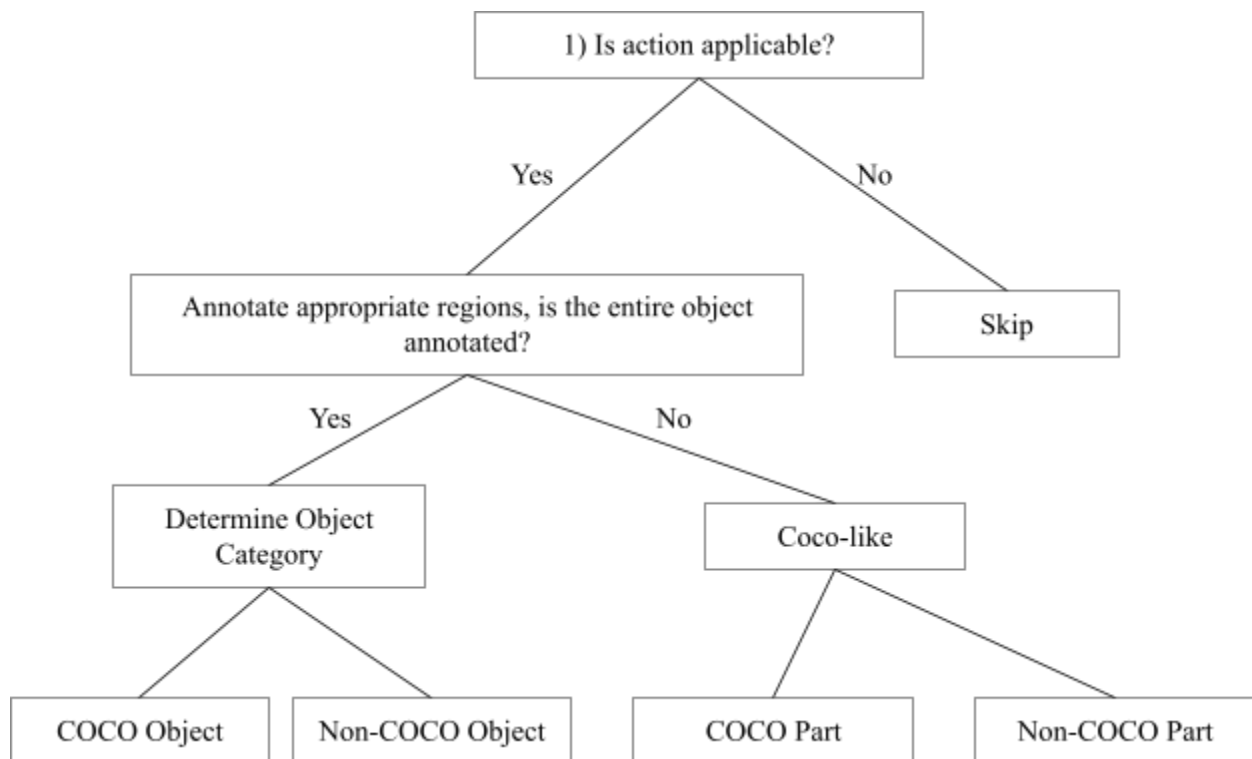


Annotation details for EPIC-ROI

List of Actions:

1. Take
2. Open
3. Close
4. Turn
5. Press
6. Dry
7. Peel
8. Human (Segment out humans regions which are discarded from evaluation)
9. Uncertain (Regions that are hard to annotate due to low brightness, also discarded from evaluation)

Annotation Procedure: For each object in the scene, do the following for each action



List of Objects (for running the above algorithm):

Handles of doors/cupboards/drawers, oven/stove knobs, Pans, Microwave, containers, jars, bottles, fruits/vegetables, glasses, bags, kettle, toaster, scale, knives, spoons, forks, scissors, colander, plate, wires, baskets, grills, trays, pepper grinder, plus, buttons, sink strainer.

1. Examples for COCO Objects:

Bottles (Take), Cans (Take), Jars (Take), Spoons (Take), Knives (Take), Forks (Take), Spatula (Take), Ladle (Take)

2. **Examples for Non-COCO Objects:**

Stove Burner Grates (Take), Sponge/Scrubber (Take), Wire (Take), Pasta Box (Take), Strainer Basket (Take), Stove Knobs (Turn), Oven Handle (Open/Close)

3. **Examples for COCO Parts:**

Pan Handles (Take), Pan Edges/Rims (Take), Jar Lid (Open/Close), Plate Edges (Take)

4. **Examples for Non-COCO Parts:**

Tap Handle (Turn), Tap Nozzle (Turn), Buttons on Food Processor (Press), Cupboard/Room Door Edges (Open/Close), Kettle Handle (Take), Fridge/Microwave/Dishwasher/Washing Machine/Oven Door Edge (Open/Close), Fridge Handle (Open/Close)

COCO Object list (not same as original COCO categories): Bottles, Cans, Jars, Spoons, Knives, Forks, Spatula, Ladle

Special Cases:

1. For a Microwave (Non-COCO), its door, buttons and knobs are considered parts of objects
2. For a Pan (COCO), its handle and rims are considered parts of object
3. For a Kettle (Non-COCO), its lid and handle are considered part of the object
4. For a Jug (COCO), its handle is considered part of the object where take action is applicable
5. For a Toaster (COCO), the entire object is labeled for take action and only part of it for press action
6. Cereal boxes/Cardboard boxes are considered Non-COCO objects

Annotation Interface: We used [cvat.org](https://cvat.dev/) to label images for EPIC-ROI dataset. We annotated objects with two forms of labels, (i) Polygons (e.g. jars) and (ii) Polylines (e.g. Door Edges). Then to create the segmentation masks, we label the areas covered by polygons as positives and convert polylines to strips (with a thickness of 25 pixels on 1080x1920 images). We also disregard the areas labeled as “Uncertain” or “human” (dilated by 20 pixels) at the evaluation time i.e. these areas do not contribute to the final performance.