

# Annotation instructions

## Objective:

We want to understand how drivers react when they approach a stop sign. As an annotator, you are required to watch videos coming from dash cams and extract the relevant information to help us build a model that learns these behaviours.

## Instructions:

You will receive a folder with videos. Your task is to create and complete a table in a CSV format that will have one row for every stop sign that you see in each of the videos.

The information should be as accurate as possible, and completed in each of the columns as it will be explained now.

In the scenario where a video does not contain a clearly visible stop sign, nothing should be added to the table.

## Example and explanation:

This following table serves as a good input example for the information that needs to be filled:

stop_id	video_id	first_seen	car_action	stopped	started	last_seen	continued	collision
1	dc3af86e-a688-4e4b-b9c4-3ffe2de79434	2	slows_down			12	straight	no
2	dc3af86e-a688-4e4b-b9c4-3ffe2de79434	25	stops	39	40	38	uncertain	yes
3	893f22ef-668d-40c3-8715-7b92ab8d952a	0	stops	6	17	5	uncertain	yes

Explanation of each column:

- **stop\_id** [integer]: This is the unique identifier of each stop sign observed, which starts at 1 and goes up in ascending order.
- **video\_id** [varchar]: This is the identifier of the video you are watching, excluding the suffix (e.g. .mp4)
- **first\_seen** [integer]: Time in seconds in the video where you first see the stop sign.
- **car\_action** [varchar]: Four possible values, depending on the driver's behaviour:
  - "stops" if the car fully stops,
  - "slows\_down" if the car slows down but does not fully stop,
  - "not\_stopped" if the car did not even slow down, and
  - "uncertain" if for any reason the driver's action is not clear.
- **stopped** [integer]: Time in seconds in the video where the car completely stops. Only complete if the car completely stops (if "car\_action" value is "stops"), if not, leave it empty.
- **started** [integer]: Time in seconds in the video where the car starts after stopping. Only complete if the car completely stops (if "car\_action" value is "stops"), if not, leave it empty.

- **last\_seen** [integer]: Time in seconds in the video where you last see the stop sign.
- **continued** [varchar]: Driver's action at the intersection after the stop sign, possible values:
  - "straight" if the driver continued straight at the following intersection
  - "turned" if the driver turned to either right or left at the following intersection
  - "uncertain" if the video doesn't show it or it's unclear for any other reason.
- **collision** [varchar]: Possible values:
  - "yes" if the driver had a collision with a car, human, animal, or object from "first\_seen" until the car finishes crossing the intersection
  - "no" if the driver did not have a collision with a car, human, animal, or object from "first\_seen" until the car finishes crossing the intersection.
  - "uncertain" if it's not clear or there are doubts for any reason

### Expected delivery:

As mentioned, the information may be filled in a table, but must be delivered in a CSV format. As an example, for the table shown before, this would be an example output file, whose filename must be **stop\_signs.csv**:

```

"""
stop_id,video_id,first_seen,car_action,stopped,started,last_seen,continued,collision
1,dc3af86e-a688-4e4b-b9c4-3ffe2de79434,2,slows_down,,,12,straight,no
2,dc3af86e-a688-4e4b-b9c4-3ffe2de79434,25,stops,39,40,38,uncertain,yes
3,893f22ef-668d-40c3-8715-7b92ab8d952a,0,stops,6,17,5,uncertain,yes
"""

```

### Assumptions:

- It is valid to assume that there is only one stop sign at a time even if there is more than one, considering only the most valid one according to the annotator.
- There may be other gray areas such as if the car really stopped or not, or if there was a collision or not, since at times this is not clearly visible from the annotator's perspective.

### Why it matters

- This crucial task will help us build a model that allows us to better understand the drivers' compliance and behaviour when faced with stop signs, the risk that their actions or others' actions may carry (such as not fully stopping, or turning left/right instead of continuing straight).