Advancements in Visual Perception: Dataset, Facial Movement
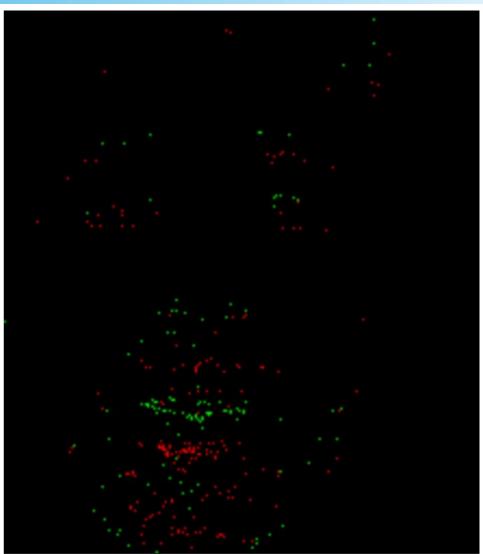
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How to create the dataset ?

- Protocol

1) Positioned 30 cm from both cameras

2) Look at event camera

3) Be neutral

4) Use a paper to synchronize both camera

5) Raise your hand when the actor has to make his movement (mouth opening, frown...)

Example of the dataset

Example of open mouth

Facial movement

Importante facial movement : frown, raise eyebrows, open mouth, close eyes, contract the lips, separate the lips, open your eyes wide...

Dataset

- Dataset

    - Categories : frown, raise eyebrows, open mouth...

    - Average 5min (event camera and rgb camera) of videos for each categories.

    - One video it's average 10s

    - 30 people