## SLOTFORMER: UNSUPERVISED VISUAL DYNAMICS SIMULATION

WITH OBJECT-CENTRIC MODELS /+ rans former-

Sofformer: — It is a method that helps under-stand how objects change their position with time and how they interact within video or sienes.

The software will predict the the future position of an object

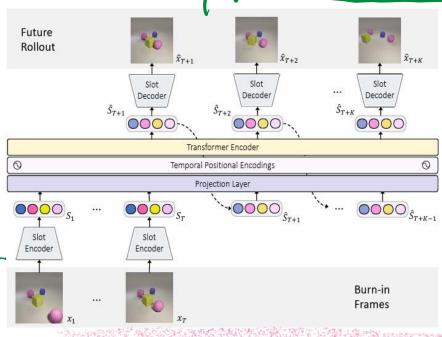
- -> muttiple video frames
- extract object slots using trained object-centric models
- slots are linearly projected and added with temporal posttional encoding.
- -) Then it leads to future slots.

Results of the Experiment for OB130 dataset

The Experiment
where the data
Used was a
Geverer 5

transformerbasea method

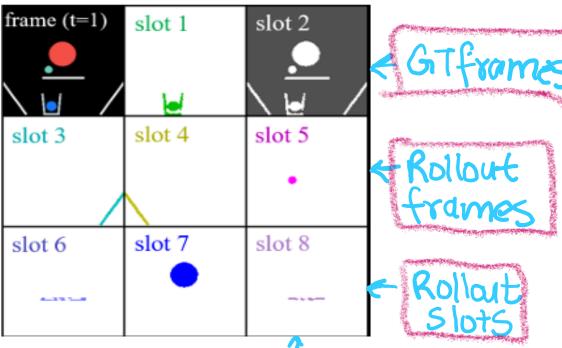
Object centricmodels are used



Datasets used 8-

There are 3 Kinds of datasets used ->

- 1. CLEVERER
- 2. Physion
- 3. DBJ30



Stot de composition on the first frame

dynamic modelling is tocated as a Sequential problem leavining problem and it Requires no human Supervision.