Learning Video Representations from Large Language Models

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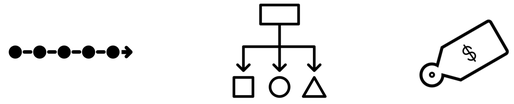
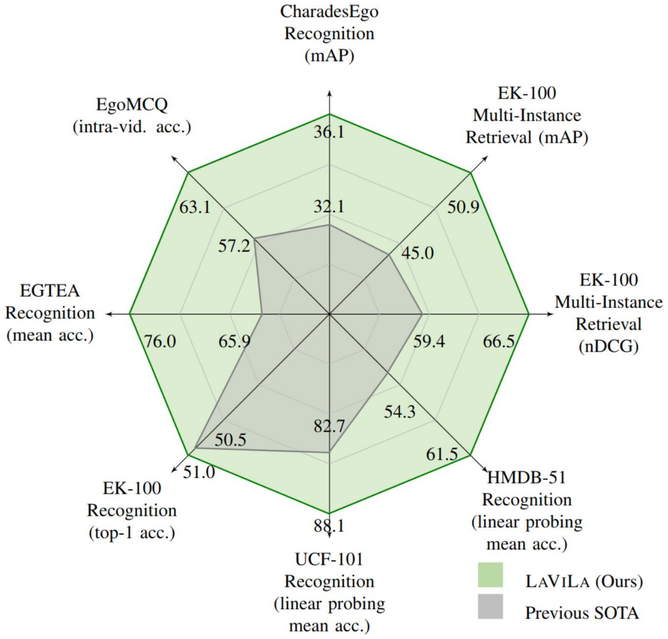
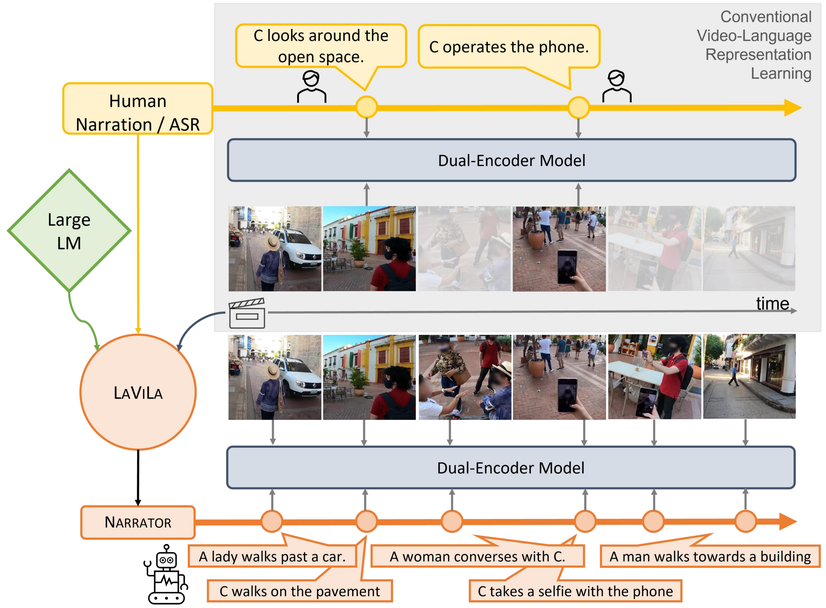
Our Approach: LAVILA

- Goal: Learn Video-Text Representation through Pre-training
- Language-model augmented Video-Language pre-training
  - LLM + visual condition => Narrators (video captioning)

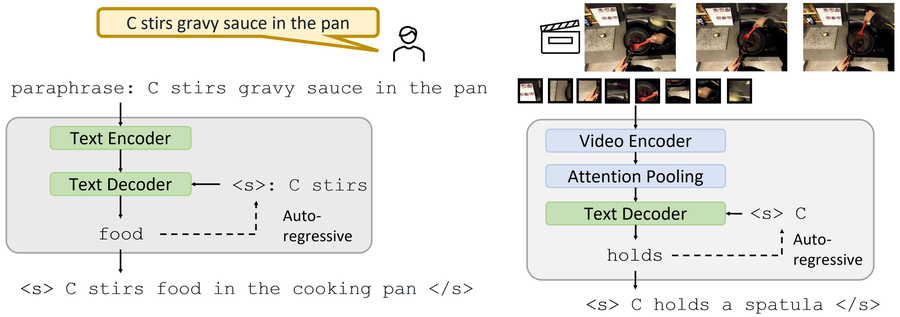




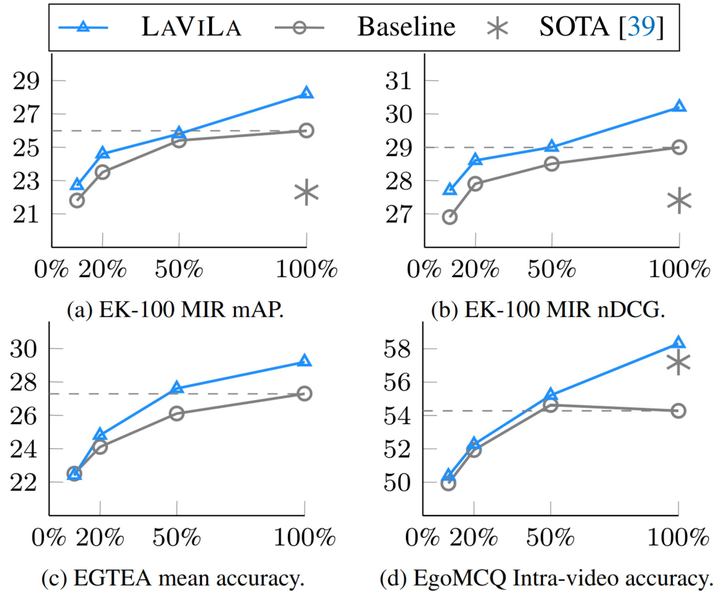


Language supervisions

- REPHRASER: narration -> rephrased narration
- NARRATOR: video clip -> pseudo-captioned narration



Data Scaling



Model Scaling