

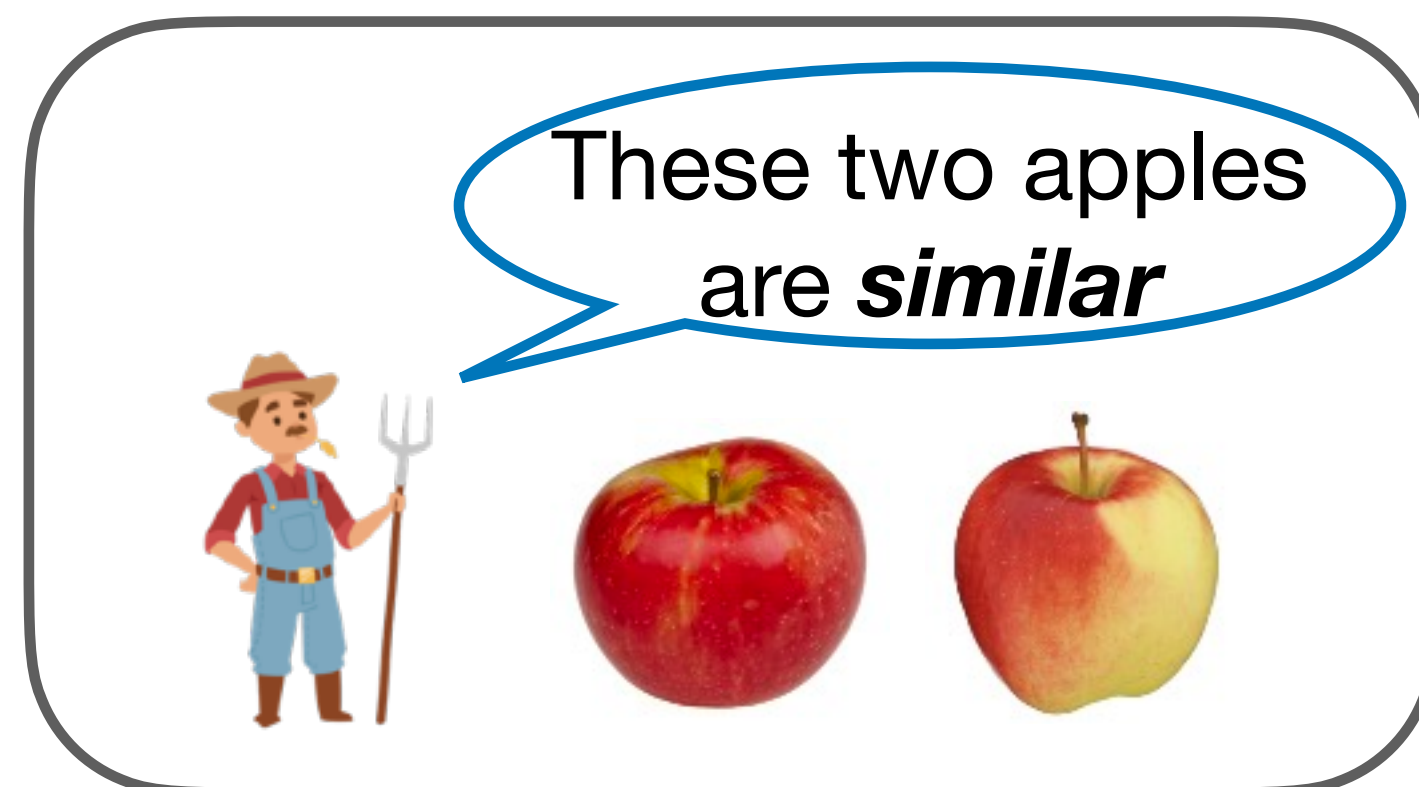
# Learning from human feedback is crucial for modern ML systems!



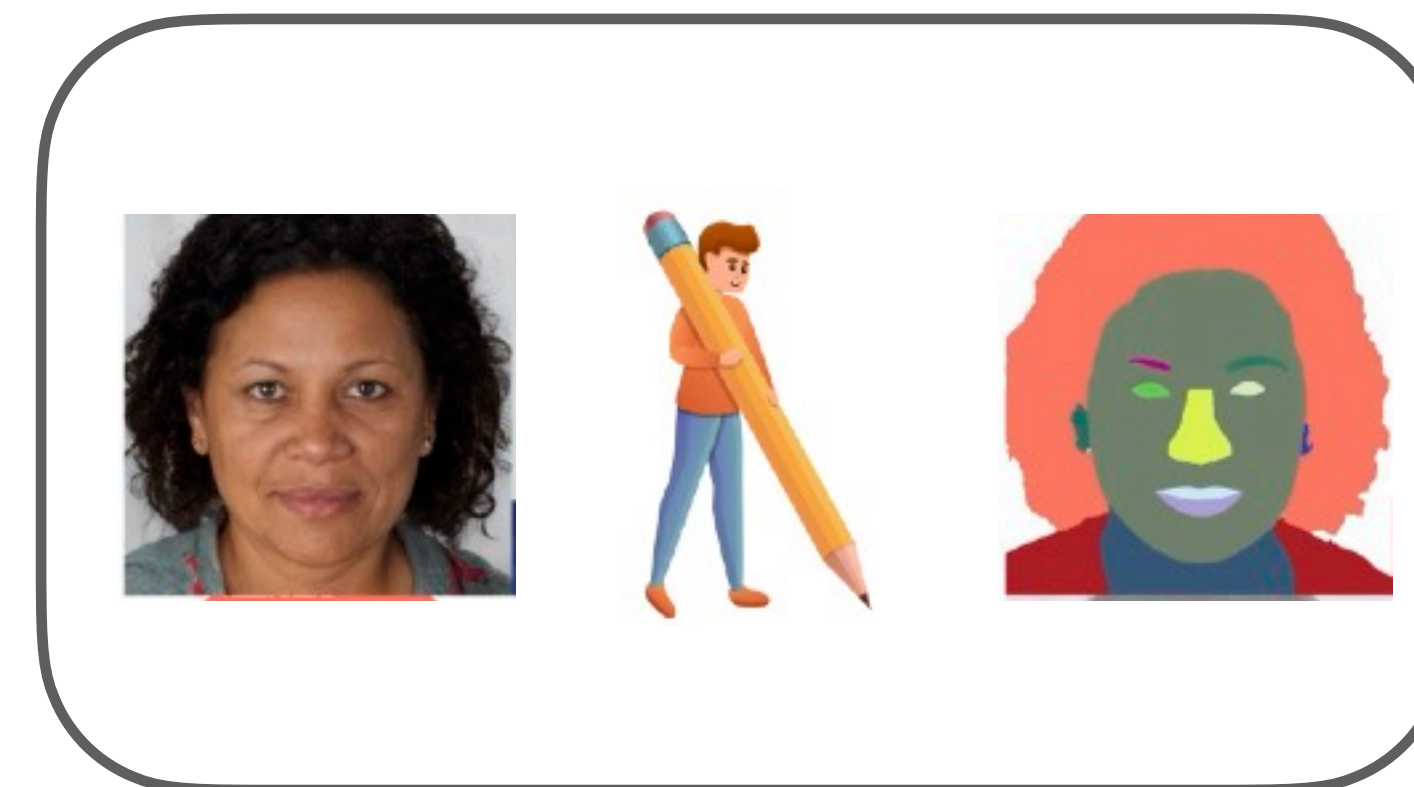
***Preference***



***Relevance***



***Perception***

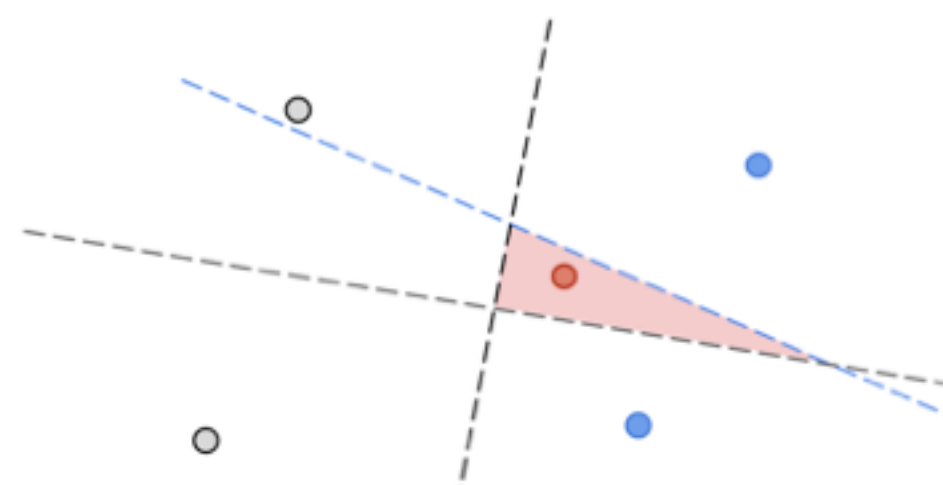


***Labels***

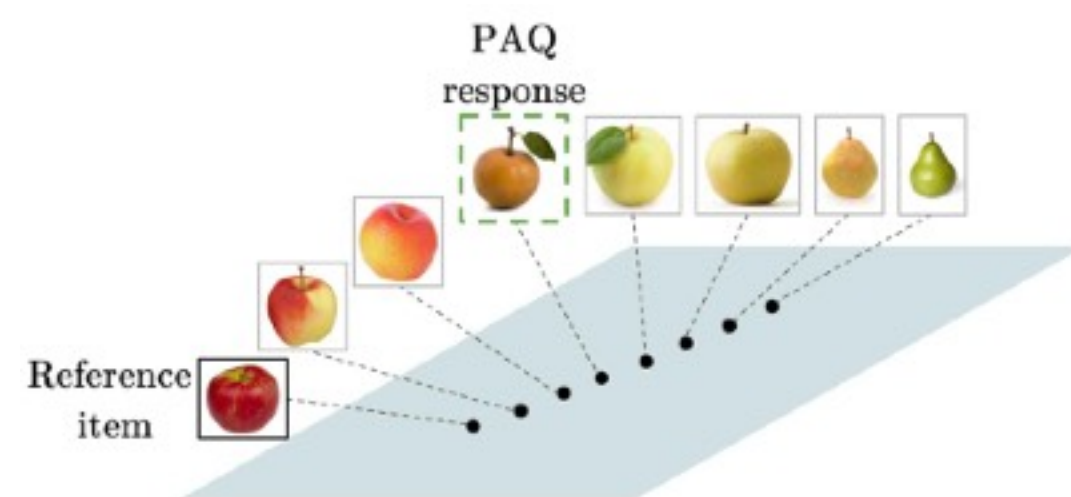
# Outline

## With

**Aim 1:** Preference and metric learning from paired comparisons

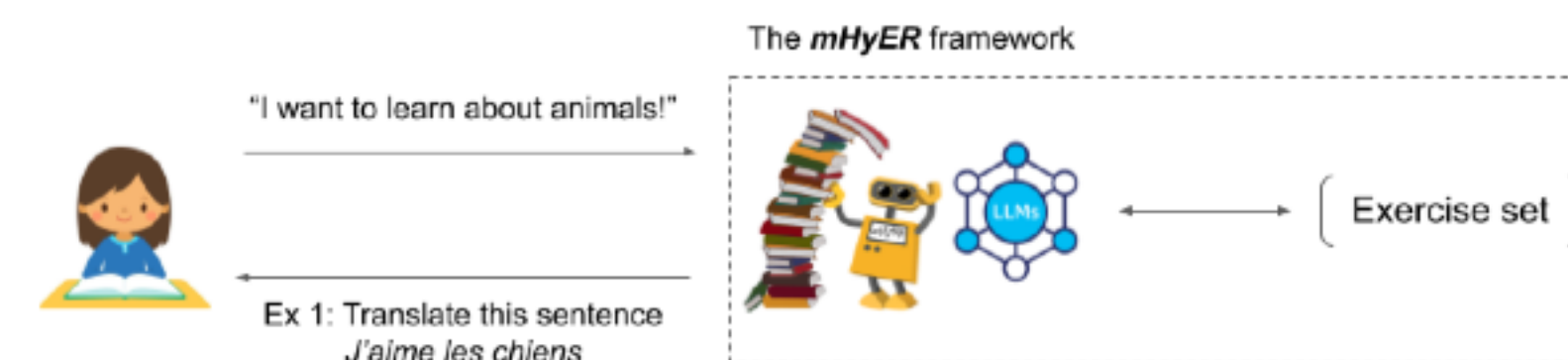


**Aim 2:** Perceptual adjustment queries for metric learning



## Without

**Aim 3:** Zero-shot large language model augmented exercise retrieval



**Aim 4:** Synthetic dataset generation with no additional annotations

