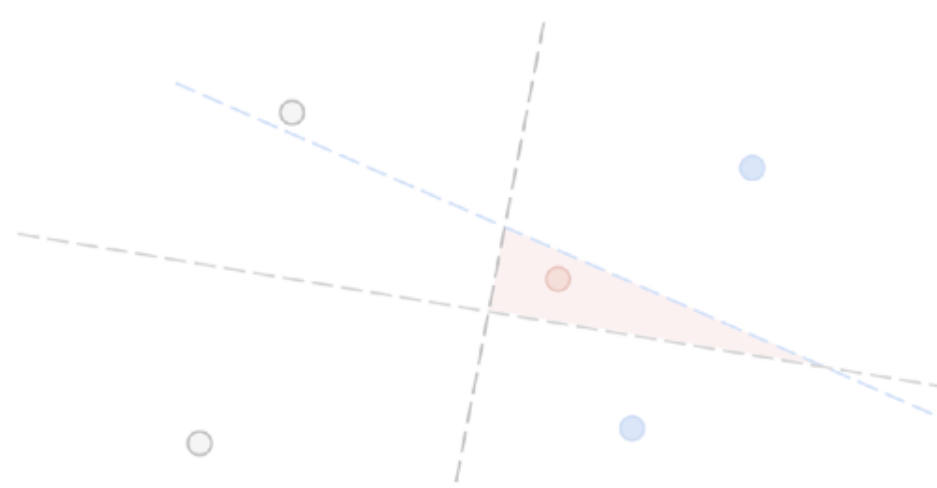


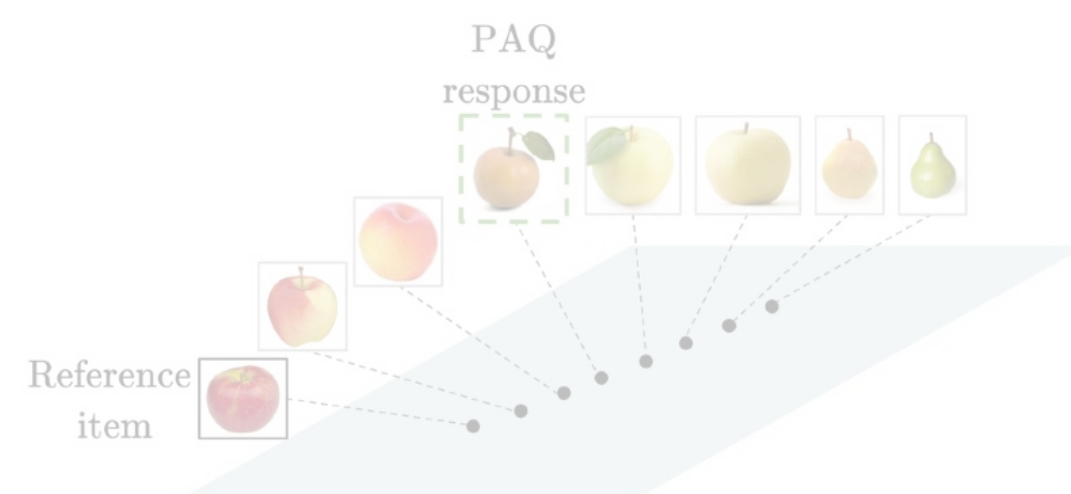
Outline

With

Aim 1: Preference and metric learning from paired comparisons

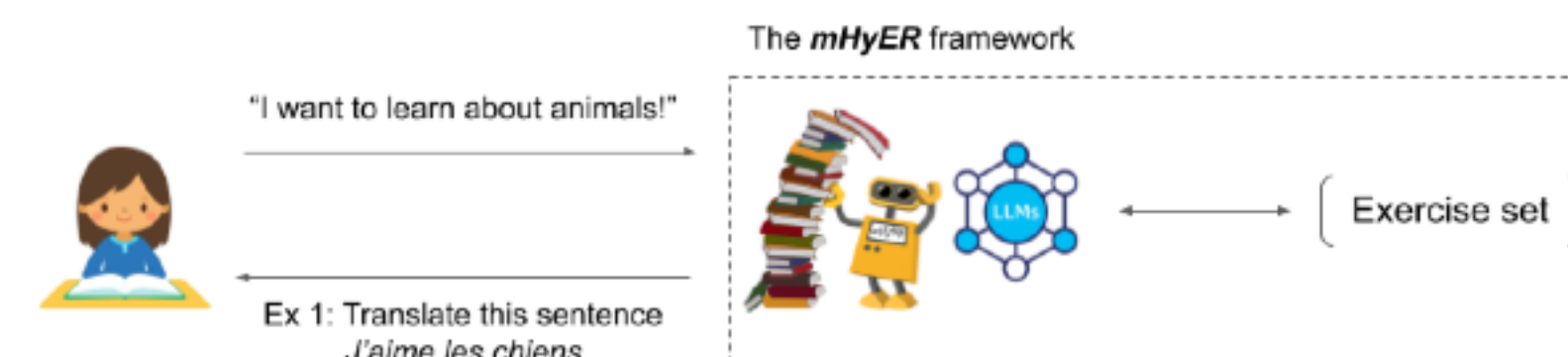


Aim 2: Perceptual adjustment queries for metric learning

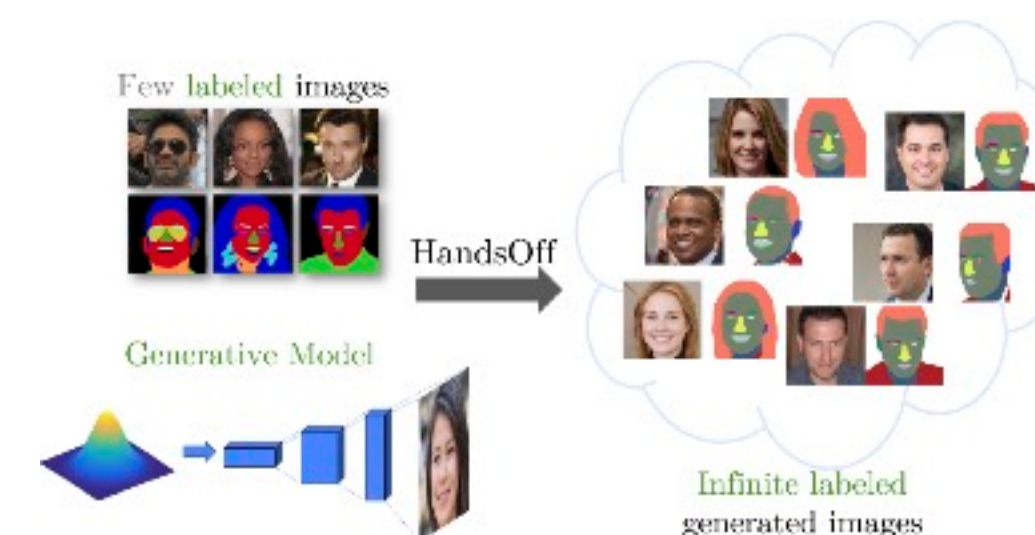


Without

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

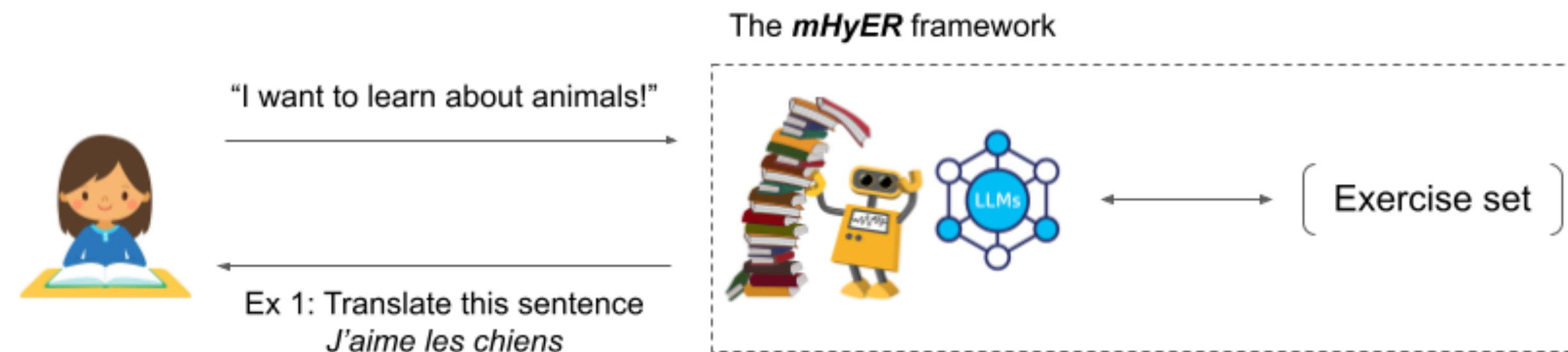


Aim 4: Synthetic dataset generation with no additional annotations



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

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In collaboration with
duolingo