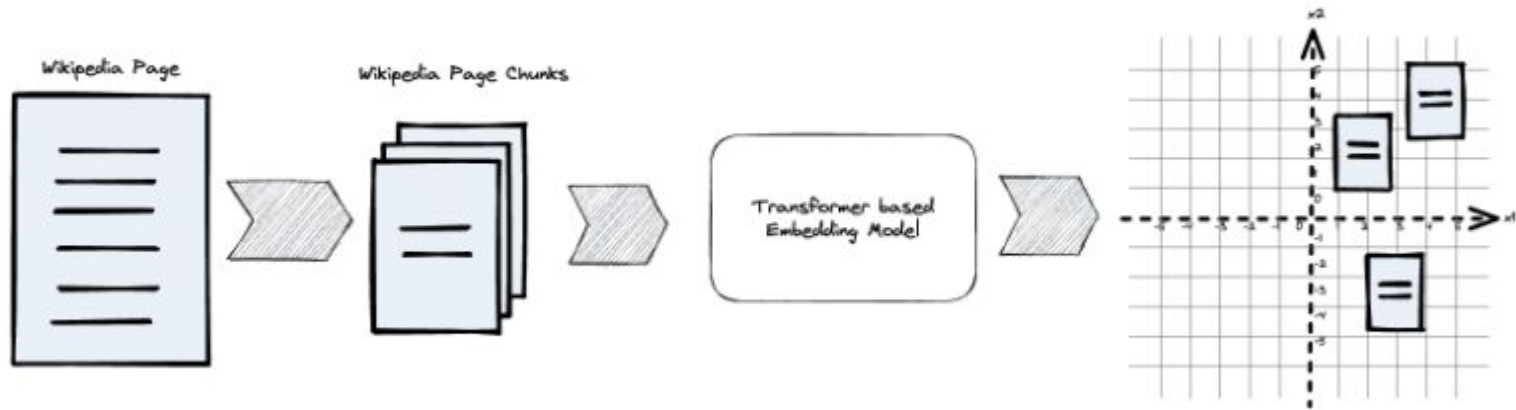


OCR Multimodal Retrieval using ColiPali Model

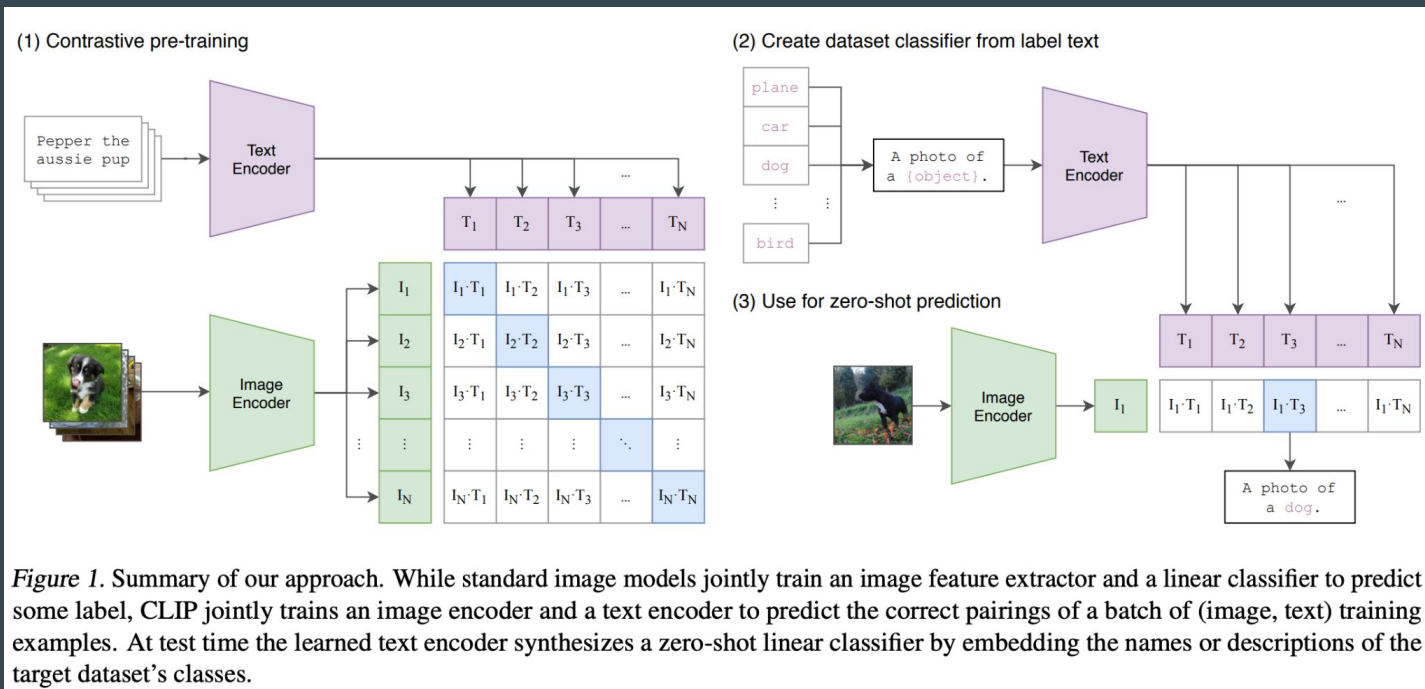
Traditional Retrieval Document Method



ColiPali = Colbert + PaliGemma

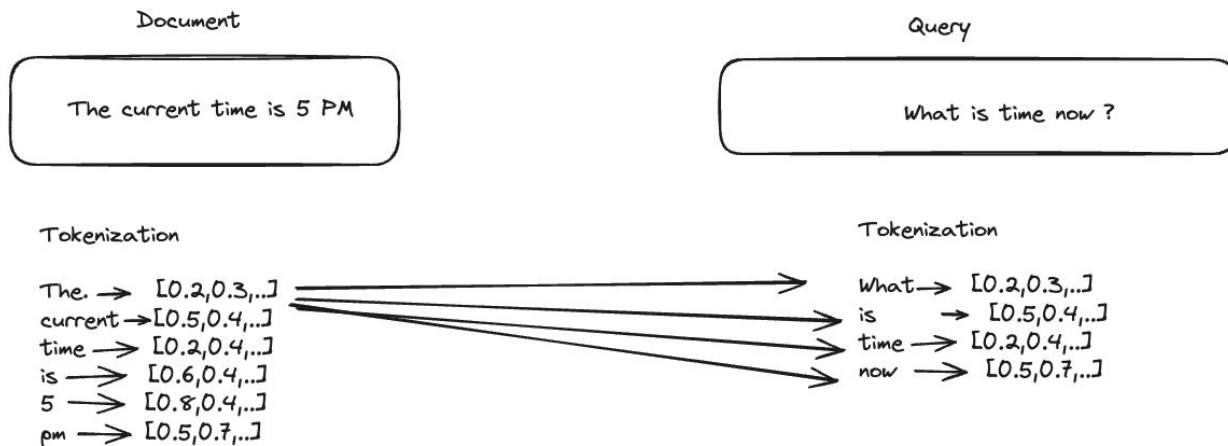
Vision Models

CLIP, SigLIP etc



ColBert

To move canvas, hold mouse wheel or spacebar while dragging, or use the hand tool



Now document token and Query Token is compared and then similarity score is calculated.
So, then every token contributes to the Similarity Score

This is known as Contextual Late Interaction

Colipali



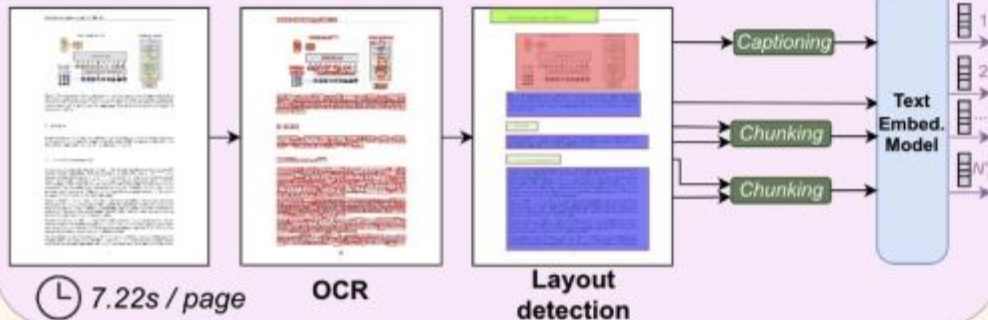
USING COMPLEX RETRIEVAL SYSTEMS
THAT RELY ON OCR, DOCUMENT LAYOUT
RECOGNITION, CHUNKING STRATEGIES,
FIGURE CAPTIONING AND POWERFUL
TEXT EMBEDDING MODELS



JUST EMBED THE IMAGE

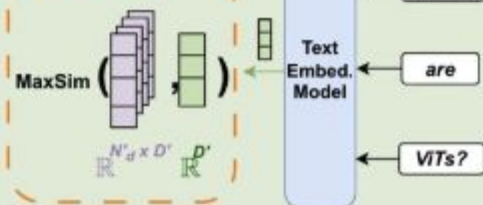
Standard Retrieval 📊 0.66 NDCG@5

offline



online

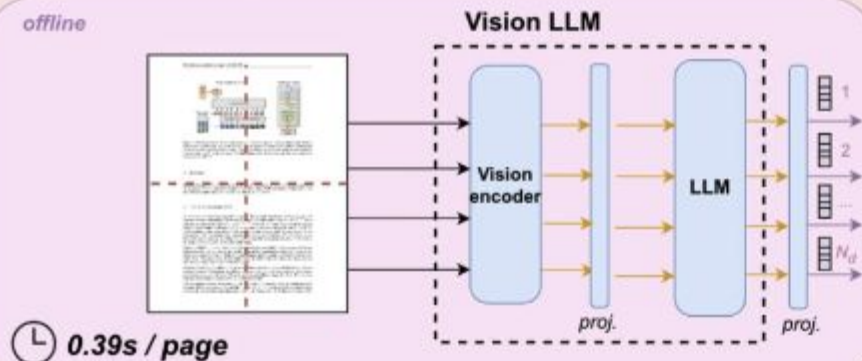
Similarity score



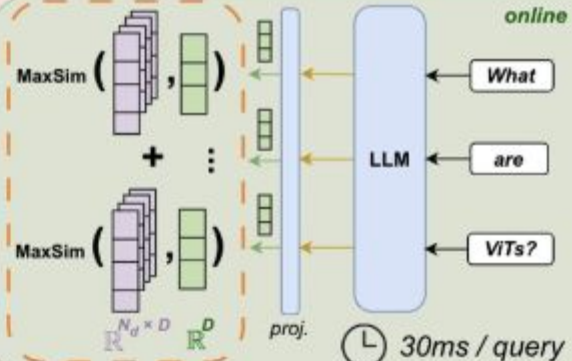
22ms / query

ColPali (ours) 📊 0.81 NDCG@5

offline



Similarity score



30ms / query