Debiased Importance Score

Original Attention

A_{ori}

Model Bias Prior

Relative Attention
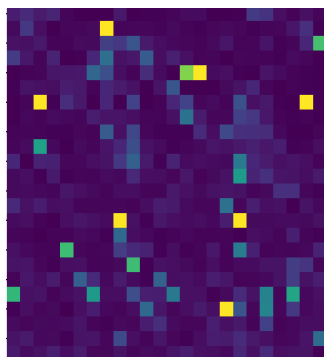
A_{rel}

Adjacency Graph Construction

Semantic Similarity

Cosine Similarity

Spatial Adjacency

8 neighbors

Fused Similarity
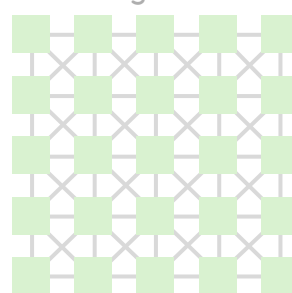
Adjacency Graph
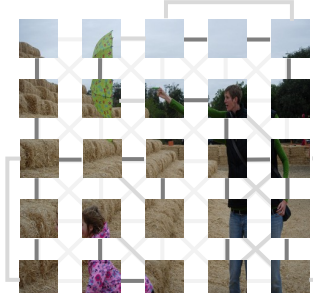
$\alpha \times S_{sem}$ $+$ $(1-\alpha) \times S_{spat}$ $=$ S_{fuse} Binarization S_{adj}
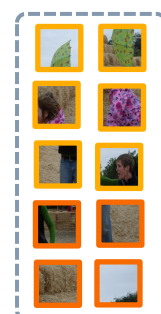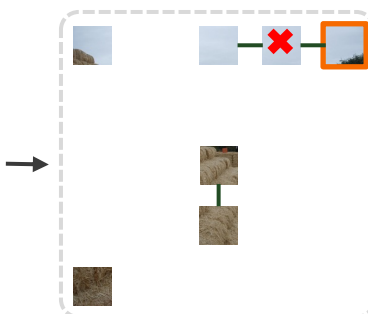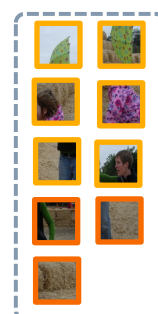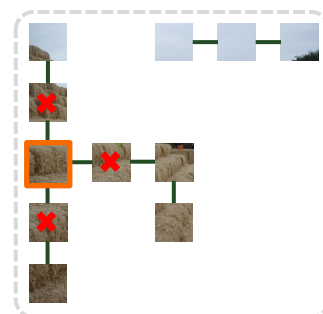
Pivot-based Diverse Token Selection

Candidate Set Selected Set

...
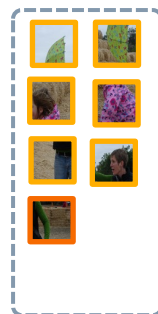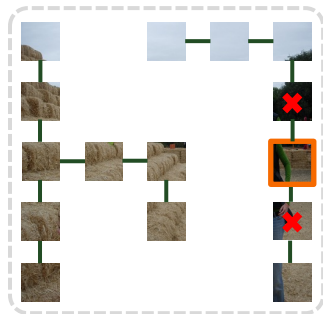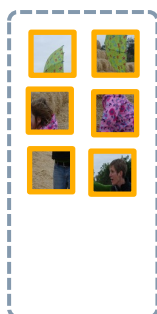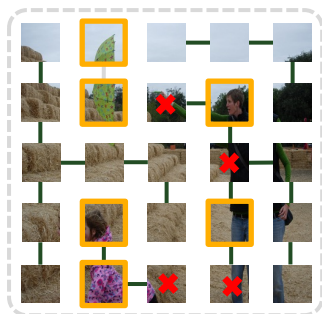
Step 1: Initialize pivots with Top-K A_{rel} and exclude neighbors in S_{adj}

Step 2: Iteratively select tokens with highest A_{rel} and exclude neighbors in S_{adj}