

Input to DTwinSeger

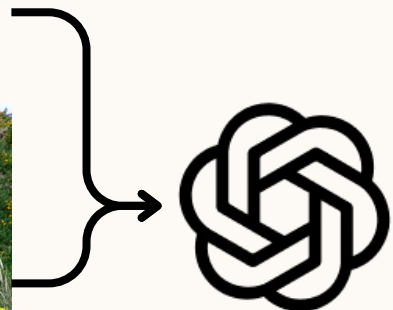
Step1: Determine the granularity

Step2: Use SAM everything mode

Step3: Compute the centroids

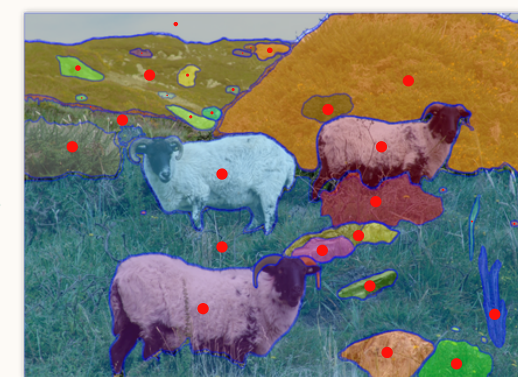
User Query: Segment the goat nearest to the bottom stone

User Image:



It's object level

SAM  
everything



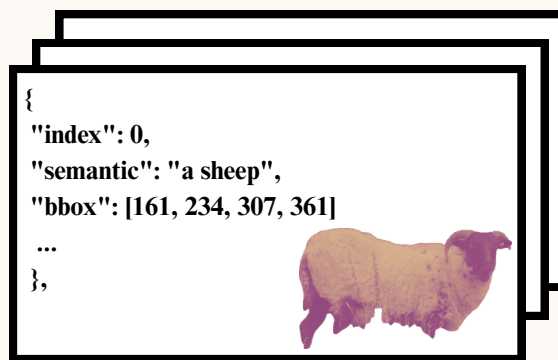
Calculate the center point of each object and identify the bottom stone with index = 5. Then, calculate the distance  $d$  between the bottom stone and the sheep with indices 0, 1, and 2. The distances satisfy  $d_0 < d_2 < d_1$ , meaning that the sheep closest to the bottom stone is **Sheep 0**.

Step4: Centroids as prompts and select the largest mask

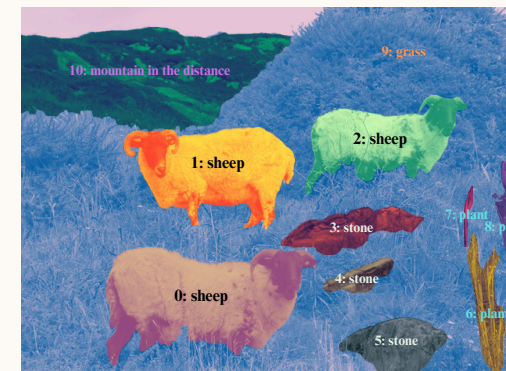
SAM  
multimask



Step5: Semantic assignment



Step6: Generate DT representation



Step7: Decided by LLM

