

A Appendix

A.1 Training Details

Pseudo mask preparation details. Empirically, in the divide stage, we set the confidence threshold $\tau = 0.3$; in the conquer stage, we choose threshold $\theta_{merge} = [0.6, 0.5, 0.4, 0.3, 0.2, 0.1]$. For each image, the divide-and-conquer pipeline generates on average 334 pseudo masks. In the self-training phase, the $\tau_{self-train} = 0.7$, and each image has 448 pseudo masks per image after merging high-confidence mask predictions generated by UnSAM. When merging the pseudo masks with the ground truths for training UnSAM+, we select $\tau_{UnSAM+} = 0.02$.

Whole-image segmentation. UnSAM picks DINO [8] pre-trained ResNet-50 [18] as the backbone and Mask2former [9] as the mask decoder. Given the abundant number of pseudo masks generated, UnSAM augments data only by cropping a 1024×1024 region from the original image. To cope with a large amount of ‘ground-truth’ masks per image, we find that having 2000 learnable queries produces the best result. We randomly select at most 200 ‘ground-truth’ masks per image to speed up the training process. The default learning rate is 5×10^{-5} with batch size equals 16 and weight decay 5×10^{-2} . We train the model for 8 epochs. All model training in this paper was conducted using either 4 A100 GPUs or 8 RTX 3090 GPUs.

Promptable segmentation. UnSAM uses the self-supervised pretrained Swin-Transformer [25], specifically the Swin-Tiny model, as the backbone and leverages Semantic-SAM [23] as the base model. Given at most 6 levels of masks corresponding to one input point in SA-1B [21], we set the number of hierarchy levels to 6, which is also the number of predicted masks UnSAM generates per prompt during inference. However, one can easily train with a different number of granularity levels as needed. The default learning rate is 1×10^{-4} with a batch size of 8. The learning rate decreases by a factor of 10 at 90% and 95% of the training iterations. We train the model for 4 epochs.

A.2 Preliminary: Cut and Learn (CutLER) and MaskCut

CutLER [39] introduces a cut-and-learn pipeline to precisely segment instances without supervision. The initial phase, known as the cut stage, uses a normalized cut-based method, MaskCut [39], to generate high-quality instance masks that serve as pseudo-labels for subsequent learning phases. MaskCut begins by harnessing semantic information extracted from “key” features K_i of patch i in the last attention layer of unsupervised vision transformers. It then calculates a patch-wise cosine similarity matrix $W_{ij} = \frac{K_i K_j}{\|K_i\|_2 \|K_j\|_2}$. To extract multiple instance masks from a single image, MaskCut initially applies Normalized Cuts [31], which identify the eigenvector x corresponding to the second smallest eigenvalue. The vector x is then bi-partitioned to extract the foreground instance mask M^s . Subsequent iterations repeat this operation but adjust by masking out patches from previously segmented instances in the affinity matrix: $W_{ij}^t = \frac{(K_i \sum_{s=1}^t M_{ij}^s)(K_j \sum_{s=1}^t M_{ij}^s)}{\|K_i\|_2 \|K_j\|_2}$. Subsequently, CutLER’s learning stage trains a segmentation/detection model with drop-loss, which encourages the model to explore areas not previously identified by MaskCut. An iterative self-training phase is employed for continuously refining the model’s performance.

A.3 Preliminary: Segment Anything Model (SAM) and SA-1B

Inspired by achievement in the NLP field, the Segment Anything project [21] introduces the novel *promptable segmentation task*. At its core lies the Segment Anything Model (SAM) [21], which is capable of producing segmentation masks given user-provided text, points, boxes, and masks in a zero-shot manner. SAM comprises three key components: an MAE [17] pre-trained Vision Transformer [14] that extracts image embeddings, the prompt encoders that embed various types of prompts, and a lightweight Transformer [36] decoder that predicts segmentation masks by integrating image and prompt embeddings.

One significant contribution of SAM [21] is the release of the SA-1B dataset, which comprises 11 million high-resolution images and 1.1 billion segmentation masks, providing a substantial resource for training and evaluating segmentation models. In particular, annotators interactively used SAM to annotate images, and this newly annotated data was then utilized to iteratively update SAM. This cycle was repeated multiple times to progressively enhance both the model and the dataset.

While SAM [21] significantly accelerates the labeling of segmentation masks, annotating an image still requires approximately 14 seconds per mask. Given that each image contains over 100 masks, this equates to more than 30 minutes per image, posing a substantial cost and making it challenging to scale up the training data effectively.

A.4 Evaluation Datasets

COCO (Common Objects in Context) [24] is a widely utilized object detection and segmentation dataset. It consists of 115,000 labeled training images, 5,000 labeled validation images, and more than 200,000 unlabeled images. Its object segmentation covers 80 categories and is mainly on the instance-level. We evaluate our model on COCO *Val2017* with 5000 validation images without training or fine-tuning on any images from the COCO training set. The metrics we choose are class-agnostic COCO style averaged precision and averaged recall for the whole-image inference task, and MaxIoU and OracleIoU for the promptable segmentation task.

SA-1B [21] consists of 11 million high-resolution (1500 on average) images and 1.1 billion segmentation masks, approximately 100 masks per image. All masks are collected in a class-agnostic manner with various subject themes including locations, objects, and scenes. Masks cover a wide range of granularity levels, from large scale objects to fine-grained details. In the whole-image inference task, we randomly selected 1000 SA-1B images that are not used to generate pseudo labels as the validation set.

LVIS (Large Vocabulary Instance Segmentation) [15] has 164,000 images with more than 1,200 categories and more than 2 million high-quality instance-level segmentation masks. It has a long tail distribution that naturally reveals a large number of rare categories. In the whole-image inference task, we evaluate our model using its 5000 validation images in a zero-shot manner.

EntitySeg [29] is an open-world, class-agnostic dataset that consists of 33277 images in total. There are on average 18.1 entities per image. More than 80% of its images are of high resolution with at least 1000 pixels for the width. EntitySeg also has more accurate boundary annotations. In the whole-image inference task, we evaluate our model with 1314 low resolution version images (800×1300 on average) in a zero-shot manner.

PACO (Parts and Attributes of Common Objects) [30] is a detection dataset that provides 641,000 masks for part-level entities not included in traditional datasets. It covers 75 object categories and 456 object-part categories. In the whole-image inference task, we evaluate our model with 2410 validation images in a zero-shot manner.

PartImageNet [16] is a large-scale, high quality dataset with rich part segmentation annotations on a general set of classes with non-rigid, articulated objects. It includes 158 classes and 24,000 images from ImageNet [13]. In the whole-image inference task, we evaluate our model with 2956 validation images in a zero-shot manner.

ADE20K [48] is composed of 25,574 training and 2,000 testing images spanning 365 different scenes. It mainly covers semantic-level segmentation with 150 semantic categories and 707,868 objects from 3,688 categories. In the whole-image inference task, we evaluate our model with 2000 testing images in a zero-shot manner.

A.5 More Visualizations

We provide more qualitative results of UnSAM and UnSAM+ in a zero-shot manner in Figure A1, Figure A2, and Figure A3.



Figure A1: More visualizations on SA-1B [21]. From top to bottom are raw images, segmentation by SAM, segmentation by UnSAM, and segmentation by UnSAM+.



Figure A2: More visualizations on COCO [24]. From top to bottom are raw images, segmentation by SAM, segmentation by UnSAM, and segmentation by UnSAM+.

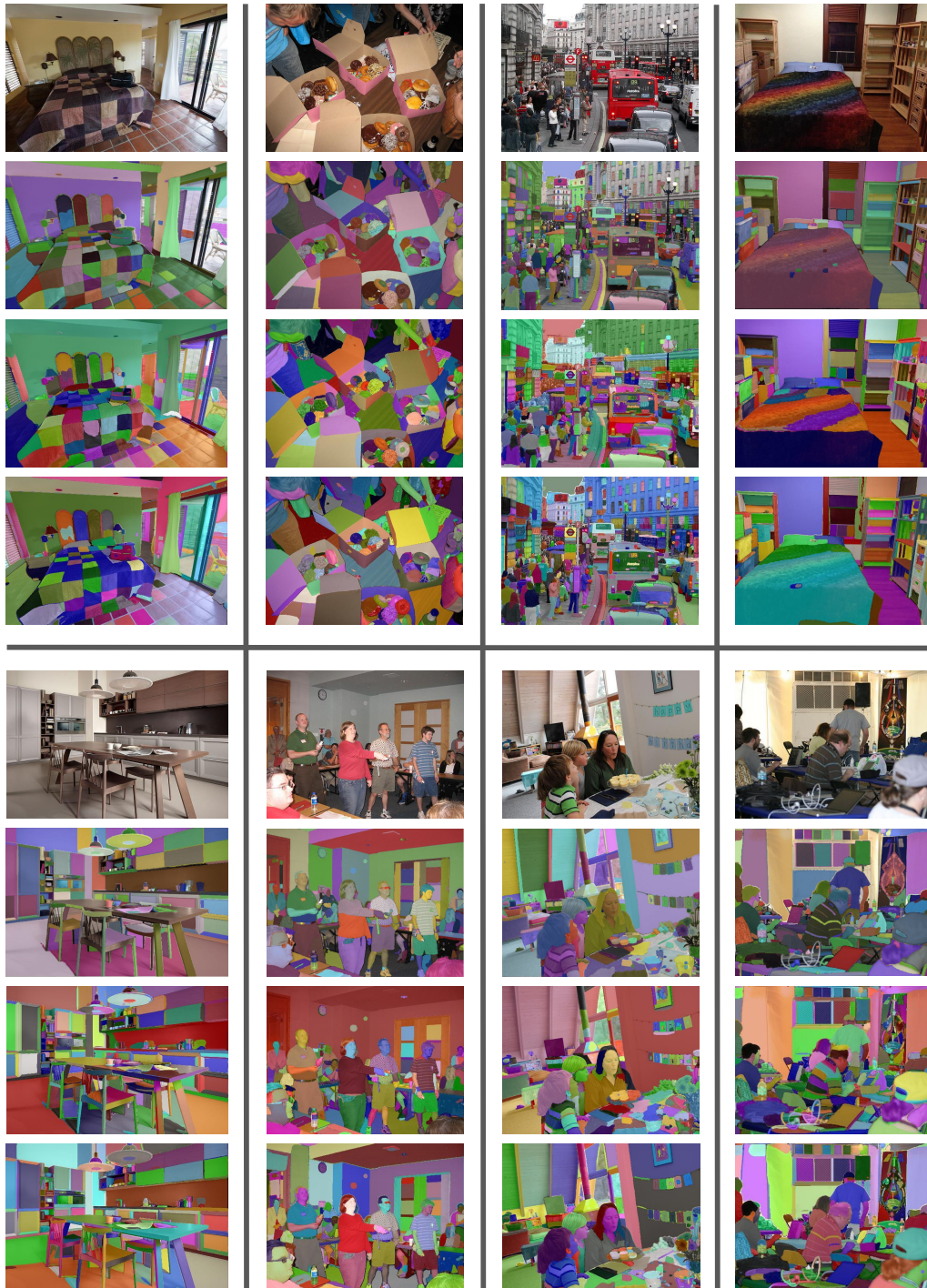


Figure A3: More visualizations on PACO [30]. From top to bottom are raw images, segmentation by SAM, segmentation by UnSAM, and segmentation by UnSAM+.



Figure A4: Failure cases of UnSAM. From left to right are raw images, segmentation by SAM, and segmentation by UnSAM.

A.6 Limitations

In images with very dense fine-grained details, UnSAM tends to miss repetitive instances with similar texture. As showed in Figure A4, in the first row, although UnSAM accurately segments the leaves in the center of the picture, it misses some leaves located at the top of the image. Additionally, UnSAM occasionally over-segment images. In the second row, the right sleeve cuff of the dancer has meaningless segmentation masks. This issue mainly arises because the unsupervised clustering method mistakenly considers some information, such as folds and shadows on clothing, as criteria for distinguishing different entities. In contrast, human annotators can use prior knowledge to inform the model that such information should not be valid criteria. In this regard, unsupervised methods still need to close the gap with supervised methods.

A.7 Ethical Considerations

We train UnSAM and UnSAM+ on ground truths of and pseudo masks generated on SA-1B [21]. SA-1B contains licensed images that are filtered for objectionable content. It is geographically diverse, but some regions and economic groups are underrepresented. Downstream use of UnSAM and UnSAM+ may create their own potential biases concerns for specific use cases.

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