

Figure 1: Re-construction losses of MAE pre-training ViT-Large on ImageNet-1K. The number in bracket in the legend is the validation accuracy (%) after fine-tuning. **ESWP achieves lossless acceleration over Baseline (no data selection), and consistently outperforms previous SOTA method InfoBatch.**

	Baseline	InfoBatch	ESWP (r=0.3)	ESWP (r=0.5)
Time(h)	48.1	37.6	35.1	27.1
Time saved(%)	-	21.8	27.0	44.7
Acc.(%)	84.9	84.6	84.9	84.6

Table 1: Comparisons of pre-training time and fine-tuning accuracy (Table 6 updated)

	Baseline	Random	ES	ESWP
Clean (0%)	81.1	80.4 \downarrow 0.7, 29%	81.1 \uparrow 0.0, 11%	80.6 \downarrow 0.5, 31%
Uniform (40%)	51.1	52.9 \uparrow 1.8, 20%	60.1 \uparrow 9.0, 16%	58.7 \uparrow 7.6, 25%

Table 2: Accuracy (%) and Time-Saved of ResNet-50 on CIFAR-100. Here Random renders Baseline with random data pruning, and **its performance is consistently worse than ESWP under the same amount of computation time saving.**

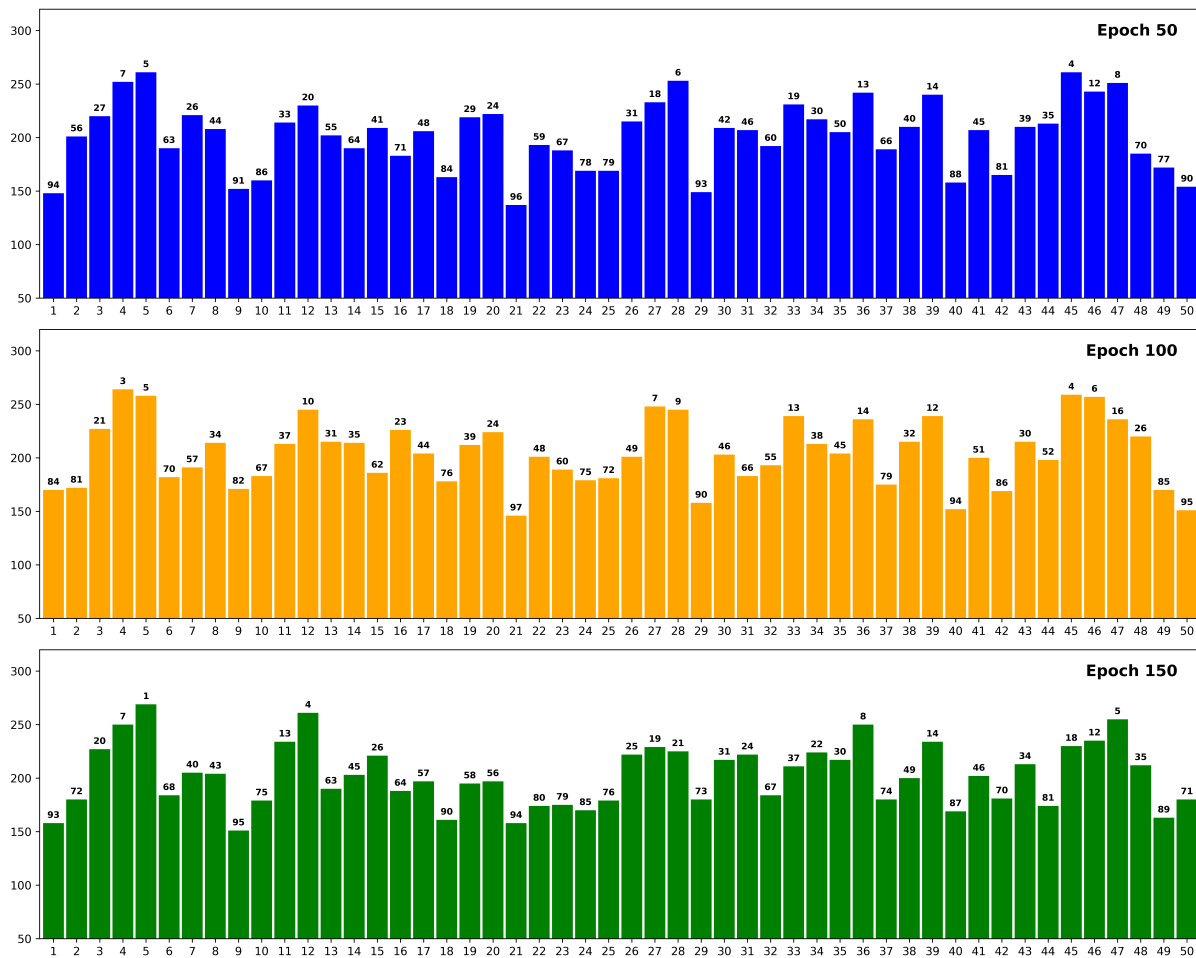


Figure 2: Visualization of the number of selected samples of each class in ESWP (ResNet-50, Cifar-100). The figure shows the result of the first 50 classes.