
ImageNet-21K Pretraining for the Masses - Rebuttal Experiments

1 1 Impact of Different Number of Training Samples

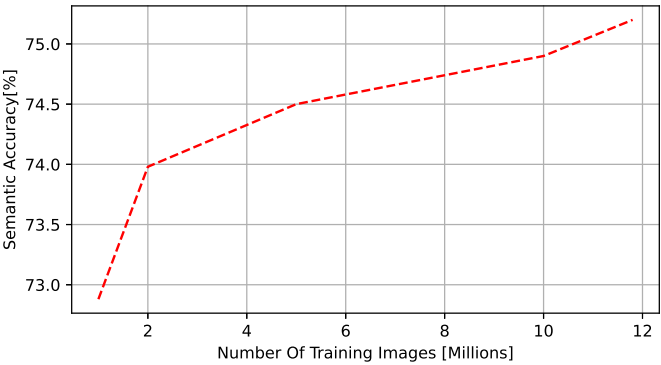


Figure 1: Upstream results for different number of training images.

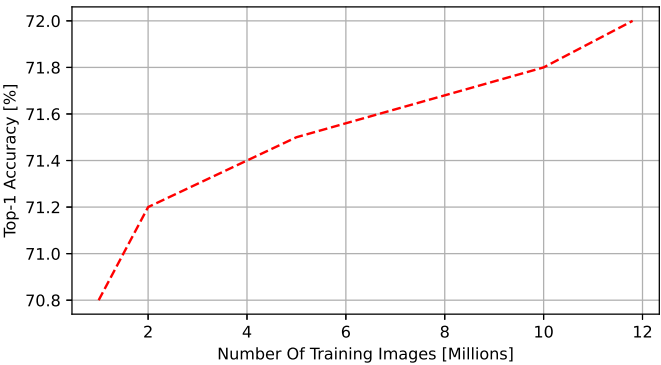


Figure 2: Downstream results for different number of training images, on Inaturalist Dataset.

2 Pretraining Comparisons on Non-classification Tasks

2.1 Object Detection

	1K Pretraining	21K Pretraining
mAP [%]	42.9	44.3

Table 1: Comparing downstream results Open Images dataset.

2.2 Image Retrieval

	1K Pretraining	21K Pretraining
mAP [%]	81.1	82.1

Table 2: Comparing downstream results for image retrieval task on INRIA Holidays dataset.

3 Impact of Pretraining on Large Datasets

	No Pretraining	21K Pretraining
mAP [%]	80.3	86.0

Table 3: Comparing downstream results for image retrieval task on INRIA Holidays dataset.

4 Comparison to Other Large-scale Datasets Pretraining

Dataset	ImageNet-21K Pretrain	Open Images Pretrain
ImageNet1K ⁽¹⁾	81.4	81.0
iNaturalist ⁽¹⁾	72.0	WIP
Food 251 ⁽¹⁾	75.8	74.8
CIFAR 100 ⁽¹⁾	90.4	89.4
MS-COCO ⁽²⁾	81.3	80.5
Pascal-VOC ⁽²⁾	89.7	89.6
Kinetics 200 ⁽³⁾	83.0	WIP

Table 5: Comparing ImageNet21K pretraining to OpenImages pretraining. Downstream dataset types and metrics: (1) - single-label, top-1 Acc.[%] ; (2) - multi-label, mAP [%]; (3) - action recognition, top-1 Acc. [%].