# Benchmarking Omni-Vision Representation through the Lens of Visual Realms

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# 1 Annotation Interface



Fig. 1. The Annotation Interface for OmniBenchmark. The meta information of each concept consists of a tag, description, and reference images. Annotators determine whether the unlabeled image conforms to the concept. The yes option will be marked if the annotator provides a positive answer to the question above.

We illustrate the annotation interface for building OmniBenchmark in Fig. 1. In addition, the annotator needs to determine the legality of the image. If the unlabeled images contain pornography or any offensive content, annotators should click "No" button in this interface.

# 2 Experiments Results

We present the complete Top-1 accuracy (Table 1) and accuracy relative to the baseline ResNet50 (Table 2) of all the 26 models. For all the models, we split them across the four model categories. As shown in Table 1, Swin-T that has similar parameters to ResNet-50 models achieves the best average accuracy on the OmniBenchmark. In addition, GV-D [17] is the best ResNet-50 model, which is pre-trained on the 69M GV-D data.

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### 3 Social Impact

The usage of OmniBenchmark might bring several risks, such as privacy, and problematic content. We discuss these risks and their mitigation strategies as follows.

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Referred to LAION-400M [16], Conceptual 12M [4] and MS-COCO [13], we only present the lists of URLs to this data. We build the meta file as follow.

#### [image\_url] [class\_index]

**Problematic Content.** The problematic contents such as drugs, nudity, and other offensive content exist in the web data. As mentioned in Sec. 1, the annotators were asked to discard such images instead of conducting annotation.

**Privacy.** To mitigate privacy issues with public visual datasets, researchers have attempted to obfuscate private information before publishing the data [7, 24]. We plan to follow this line of work to blur faces, license plates in our new annotated data. In addition, if the original picture found at the URL present on the OmniBenchmark on the record states users' names, phone numbers, or any personal information, users can request a takedown of this image.

**Bias.** The images were crawled from Flickr thus inheriting all the biases of that website. The usage of user generated data might bring the risk of bias. We plan to tackle this problem by balancing various categories.

Table 1. Top-1 accuracy of 26 models on 21 realms. We present the completeTop-1 accuracy of 25 models on 21 realms. ImageNet-1K-seen-realms are marked inunderline. Consumer. indicates consumer\_goods, Locom. indicates locomotive.

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| RN50 [9]<br>DINO [3]<br>MoCov2 [5]<br>SwAV [2]<br>BarlowTwins [27]<br>SwAV-Places [2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Interview           Interview <td< td=""><td><math display="block">\begin{array}{c} 54.3\\ &amp; \overset{i_{0}}{\overset{i_{0}}{\overset{g}{\overset{g}{\overset{g}{\overset{g}{\overset{g}{\overset{g}{\overset{g}{</math></td><td><math display="block">\begin{array}{c} 55.5\\ \hline \\ \dot{J}_{I}\\ \dot{J}_{V}\\ \dot{J}_{V}\\</math></td><td>46.7<br/>,<br/>,<br/>,<br/>,<br/>,<br/>,<br/>,<br/>,<br/>,<br/>,<br/>,<br/>,<br/>,</td><td><math display="block">\begin{array}{c} 48.2\\ &amp; &amp; &amp; \\ &amp;</math></td><td>47.4<br/>26.9<br/>32.4<br/>28.7<br/>31.6<br/>30.2<br/>32.2<br/>25.1</td><td>46.4<br/>,0<br/>,0<br/>,0<br/>,0<br/>,0<br/>,0<br/>,0<br/>,0<br/>,0<br/>,0</td><td><math display="block">\begin{array}{c} 45.4\\ \hline \\ &amp; </math></td><td>45.6<br/>25.1<br/>31.6<br/>25.4<br/>30.3<br/>28.4<br/>23.7<br/>22.8</td><td><math display="block">\begin{array}{c} 5\\ 5\\ 5\\ 5\\ 6\\ 7\\ 8\\ 7\\ 8\\ 7\\ 8\\ 7\\ 8\\ 7\\ 8\\ 7\\ 8\\ 7\\ 8\\ 7\\ 8\\ 7\\ 8\\ 7\\ 8\\ 7\\ 8\\ 7\\ 8\\ 7\\ 8\\ 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| RN50 [9]<br>DINO [3]<br>MoCov2 [5]<br>SwAV [2]<br>BarlowTwins [27]<br>SwAV-Places [2]<br>MAE [8]<br>BeiT B/16 [1]<br>EfficientNetB4 [20]<br>MLP-Mixer [21]<br>SwinT [14]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| RK50 [9]           DINO [3]           MoCov2 [5]           SwAV [2]           BarlowTwins [27]           SwAV-Places [2]           MAE [8]           BeiT B/16 [1]           EfficientNetB4 [20]           MLP-Mixer [21]           Swint [14]           ResNet-101 [9]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| RN50 [9]<br>DINO [3]<br>MoCov2 [5]<br>SwAV [2]<br>BarlowTwins [27]<br>SwAV [2]<br>BeiT B/16 [1]<br>EfficientNetB4 [20]<br>MLP-Mixer [21]<br>SwinT [14]<br>ResNet-101 [9]<br>InceptionV4 [19]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| Rt50 [1110]<br>RN50 [9]<br>DINO [3]<br>MoCov2 [5]<br>SwAV-Places [2]<br>MAE [8]<br>BeiT B/16 [1]<br>EfficientNetB4 [20]<br>MLP-Mixer [21]<br>SwinT [14]<br>ResNet-101 [9]<br>InceptionV4 [19]<br>MEAL-V2 [18]<br>CutMix [25]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| Rt50 [9]<br>DINO [3]<br>MoCov2 [5]<br>SwAV [2]<br>BarlowTwins [27]<br>SwAV.Places [2]<br>MAE [8]<br>BeiT B/16 [1]<br>EfficientNetB4 [20]<br>MLP-Mixer [21]<br>SwinT [14]<br>ResNet-101 [9]<br>InceptionV4 [19]<br>MEAL-V2 [18]<br>CutMix [25]<br>Manifold [22]<br>ReLabel [26]<br>GV-D [17]<br>IN21K [10]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| Rubo HATOT<br>RN50 [9]<br>DINO [3]<br>MoCov2 [5]<br>SwAV [2]<br>BarlowTwins [27]<br>SwAV [2]<br>BarlowTwins [27]<br>SwAV [2]<br>BarlowTwins [27]<br>SwAV [2]<br>BarlowTwins [27]<br>SwAV [2]<br>BarlowTwins [27]<br>SwAV [2]<br>BarlowTwins [27]<br>MAE [8]<br>BeiT B/16 [1]<br>EfficientNetB4 [20]<br>MLP-Mixe [21]<br>MLP-Mixe [21]<br>MEAL-V2 [18]<br>CutMix [25]<br>Manifold [22]<br>ReLabel [26]<br>IG-1B [23]<br>GV-D [17]<br>IN21K [10]<br>CLIP [15]<br>MoPro-V1 [12]<br>ViT B/16 [6]<br>Pace PN50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| RN50 [9]<br>DINO [3]<br>MoCov2 [5]<br>SwAV [2]<br>BarlowTwins [27]<br>SwAV [2]<br>BarlowTwins [27]<br>SwAV [2]<br>BeiT B/16 [1]<br>EfficientNetB4 [20]<br>MLP-Mixer [21]<br>SwinT [14]<br>ResNet-101 [9]<br>InceptionV4 [19]<br>MEAL-V2 [18]<br>CutMix [25]<br>Manifold [22]<br>ReLabel [26]<br>IG-1B [23]<br>GV-D [17]<br>IN21K [10]<br>CLIP [15]<br>MoPro-V1 [12]<br>ViT B/16 [6]<br>Peco RN50<br>Reco RN50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| RN50 [9]<br>DINO [3]<br>MoCov2 [5]<br>SwAV [2]<br>BarlowTwins [27]<br>SwAV [2]<br>BeiT B/16 [1]<br>EfficientNetB4 [20]<br>MLP-Mixer [21]<br>SwinT [14]<br>ResNet-101 [9]<br>InceptionV4 [19]<br>MEAL-V2 [18]<br>CutMix [25]<br>Manifold [22]<br>ReLabel [26]<br>IG-1B [23]<br>GV-D [17]<br>IN21K [10]<br>CLIP [15]<br>MoPro-V1 [12]<br>ViT B/16 [6]<br>Peco RN50<br>Reco RN50<br>Peco RN101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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Table 2. Accuracy of 26 models on 21 realms relative to the baseline ResNet50. We present the complete relative accuracy of 25 models on 21 realms. ImageNet-1K-seen-realms are marked in <u>underline</u>. Consumer. indicates consumer\_goods, Locom. indicates locomotive..

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| DINO [3]<br>MoCov2 [5]<br>SwAV [2]<br>BarlowTwins [27]<br>SwAV-Places [2]<br>MAE [8]<br>BeiT B/16 [1]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| DINO [3]<br>MoCov2 [5]<br>SwAV [2]<br>BarlowTwins [27]<br>SwAV-Places [2]<br>MAE [8]<br>BeiT B/16 [1]<br>EfficientNetB4 [20]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| \$\$\vee\$           \$\$\vee\$           DINO [3]           MoCov2 [5]           SwAV [2]           BarlowTwins [27]           SwAV-Places [2]           MAE [8]           BeiT B/16 [1]           EfficientNetB4 [20]           MLP-Mixer [21]           Swint [14]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| C         S           S         S           DINO [3]         MoCov2 [5]           SwAV [2]         BarlowTwins [27]           SwAV-Places [2]         MAE [8]           BeiT B/16 [1]         EfficientNetB4 [20]           MLP-Mixer [21]         SwinT [14]           ResNet-101 [9]         Point [14]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| \$\vee\$           DINO [3]           MoCov2 [5]           SwAV [2]           BarlowTwins [27]           SwAV [2]           Beir B/16 [1]           EfficientNetB4 [20]           MLP-Mizer [21]           Swint [14]           ResNet-101 [9]           InceptionV4 [19]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 5           3           OLINO [3]           MoCov2 [5]           SwAV [2]           BarlowTwins [27]           SwAV-Places [2]           MAE [8]           BeiT B/16 [1]           EfficientNetB4 [20]           MLP-Mixer [21]           SwinT [14]           ResNet-101 [9]           InceptionV4 [19]           MEAL-V2 [18]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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6.4<br>3.9<br>6.5<br>4.6<br>5.8<br>-0.3<br>-1.7<br>3.5<br>1.7<br>9.7<br>3.2<br>-2.2<br>2.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| DINO [3]<br>MoCov2 [5]<br>SwAV [2]<br>BarlowTwins [27]<br>SwAV-Places [2]<br>MAE [8]<br>BeiT B/16 [1]<br>EfficientNetB4 [20]<br>MLP-Mixer [21]<br>SwinT [14]<br>ResNet-101 [9]<br>InceptionV4 [19]<br>MEAL-V2 [18]<br>CutMix [25]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5.0<br>1.9<br>5.1<br>3.1<br>0.3<br>-3.3<br>-6.0<br>3.4<br>-1.3<br>14.4<br>5.6<br>0.2<br>4.5<br>-0.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| \$\vee\$           DINO [3]           MoCov2 [5]           SwAV [2]           BarlowTwins [27]           SwAV [2]           BeiT B/16 [1]           EfficientNetB4 [20]           MLP-Mixer [21]           Swint [14]           ResNet-101 [9]           InceptionV4 [19]           Manifold [21]           ReLabel [26]           IC 1B [22]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5.0<br>1.9<br>5.1<br>3.1<br>0.3<br>-3.3<br>-6.0<br>3.4<br>-1.3<br>14.4<br>5.6<br>0.2<br>4.5<br>-0.4<br>-0.4<br>-1.3<br>-2.2<br>8.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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5.5<br>1.8<br>4.7<br>3.3<br>5.3<br>-1.7<br>-4.1<br>1.8<br>-0.9<br>11.4<br>3.3<br>-1.0<br>3.1<br>-0.6<br>-1.1<br>-1.1<br>-1.2<br>-0.6<br>-1.1<br>-1.2<br>-0.6<br>-1.1<br>-1.2<br>-0.6<br>-1.1<br>-1.2<br>-0.6<br>-1.1<br>-1.2<br>-0.6<br>-1.1<br>-1.2<br>-0.6<br>-1.1<br>-1.2<br>-0.6<br>-1.1<br>-1.2<br>-0.6<br>-1.1<br>-1.2<br>-0.6<br>-1.1<br>-1.2<br>-0.6<br>-1.1<br>-1.2<br>-0.6<br>-1.1<br>-1.2<br>-0.6<br>-1.1<br>-1.2<br>-0.6<br>-1.1<br>-1.2<br>-0.6<br>-1.1<br>-1.2<br>-0.6<br>-1.1<br>-1.2<br>-0.6<br>-1.1<br>-1.2<br>-0.6<br>-1.1<br>-1.2<br>-0.6<br>-1.1<br>-1.2<br>-0.6<br>-1.1<br>-1.2<br>-0.6<br>-1.1<br>-1.2<br>-0.6<br>-1.1<br>-1.2<br>-0.6<br>-1.1<br>-1.2<br>-0.6<br>-1.1<br>-1.2<br>-0.5<br>-1.1<br>-1.2<br>-0.5<br>-1.2<br>-0.5<br>-1.2<br>-0.5<br>-1.2<br>-0.5<br>-1.2<br>-0.5<br>-1.2<br>-0.5<br>-1.2<br>-0.5<br>-1.2<br>-0.5<br>-1.2<br>-0.5<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2<br>-1.2 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6.4<br>3.9<br>6.5<br>4.6<br>5.8<br>-0.3<br>-1.7<br>9.7<br>3.5<br>1.7<br>9.7<br>3.5<br>-1.6<br>-2.2<br>2.4<br>-1.6<br>-2.6<br>6.5<br>-1.6<br>-2.7<br>-1.6<br>-2.5<br>-1.6<br>-2.5<br>-1.6<br>-2.5<br>-1.6<br>-2.5<br>-1.6<br>-2.5<br>-1.6<br>-2.5<br>-1.6<br>-2.5<br>-1.6<br>-2.5<br>-1.6<br>-2.5<br>-1.6<br>-2.5<br>-1.6<br>-2.5<br>-1.6<br>-2.5<br>-1.6<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5 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$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$<br>$\frac{2}{\sqrt{q}}$ | ¢<br>0.4<br>3.8<br>4.2<br>-0.2<br>-0.7<br>-4.3<br>-0.4<br>-2.9<br>6.5<br>0.7<br>-2.1<br>1.1<br>-5.5<br>-3.1<br>-4.6<br>2.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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2.7<br>2.7<br>0.1<br>1.9<br>-2.7<br>-4.2<br>1.5<br>-2.4<br>10.2<br>1.5<br>-2.4<br>10.2<br>1.5<br>-2.4<br>10.2<br>1.5<br>-0.7<br>1.3<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-1.0<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9<br>-0.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | K           X           X           4.6           0.5           4.0           2.6           -1.2           -3.7           -5.6           1.5           -2.1           1.5           -2.1           1.5           -2.1           1.5           -2.1           1.5           -2.1           1.5           -2.1           1.5           -2.1           3.2           -1.9           2.3           -2.7           -3.5           6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| 5           \$\vee\$           DINO [3]           MoCov2 [5]           SwAV [2]           BarlowTwins [27]           SwAV [2]           BarlowTwins [27]           SwAV [2]           BarlowTwins [27]           SwAV [2]           Beirt B/16 [1]           EfficientNetB4 [20]           MLP-Mixer [21]           SwinT [14]           ResNet-101 [9]           InceptionV4 [19]           MEAL-V2 [18]           CutMix [25]           Manifold [22]           ReLabel [26]           IG-1B [23]           GV-D [17]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | $\begin{smallmatrix} & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & 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$\dot{z}$<br>6.5<br>0.3<br>5.2<br>3.2<br>-1.5<br>-2.4<br>-2.2<br>0.5<br>-2.0<br>21.7<br>1.9<br>-4.4<br>0.8<br>-4.7<br>-4.0<br>-4.4<br>5.0<br>16.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| 5           \$\$\vee\$           DINO [3]           MoCov2 [5]           SwAV [2]           BarlowTwins [27]           SwAV [2]           BarlowTwins [27]           SwAV [2]           BarlowTwins [27]           SwAV [2]           BarlowTwins [27]           SwAV [2]           BeiT B/16 [1]           EfficientNetB4 [20]           MLP-Mixer [21]           SwinT [14]           ResNet-101 [9]           InceptionV4 [19]           MEAL-V2 [18]           CutMix [25]           Manifold [22]           ReLabel [26]           IG-1B [23]           GV-D [17]           IN21K [10]                                                                                                                                                                                                                                                                                                                                                                                                                                            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| \$\vee\$           DINO [3]           MoCov2 [5]           SwAV [2]           BarlowTwins [27]           SwAV [2]           BarlowTwins [27]           SwAV [2]           BarlowTwins [27]           SwAV [2]           BarlowTwins [27]           SwAV [2]           BeiT B/16 [1]           EfficientNetB4 [20]           MLP-Mixer [21]           Swint [14]           ResNet-101 [9]           InceptionV4 [19]           Macifold [22]           ReLabel [26]           IG-1B [23]           GV-D [17]           IN21K [10]           CLIP [15]           MOPro-V1 [12]           MOPro-V1 [12]                                                                                                                                                                                                                                                                                                                                                                                                                                   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$\frac{5}{24}$<br>6.1<br>1.8<br>5.5<br>4.0<br>6.2<br>-2.1<br>1.8<br>12.0<br>0.4<br>12.0<br>0.4<br>12.0<br>0.4<br>12.0<br>0.4<br>12.0<br>0.4<br>12.0<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.1<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.1<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.4<br>1.8<br>2.8<br>3.0<br>2.8<br>3.0<br>2.8<br>3.0<br>2.8<br>3.0<br>2.8<br>3.8<br>3.0<br>2.8<br>3.8<br>3.0<br>2.8<br>3.8<br>3.8<br>3.8<br>3.8<br>3.8<br>3.8<br>3.8<br>3 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$\frac{\sqrt[3]{3}}{\sqrt[3]{5}}$<br>$\sqrt[3]{5}$<br>$\sqrt[3]{5}$<br>-0.2<br>4.1<br>5.0<br>-0.2<br>4.1<br>5.0<br>-0.2<br>4.1<br>5.0<br>-0.2<br>4.1<br>5.0<br>-0.2<br>4.1<br>5.0<br>-0.2<br>-1.0<br>-7.2<br>-4.6<br>9.0<br>0.3<br>-5.6<br>0.3<br>-8.1<br>-8.1<br>4.8<br>6.7<br>19.2<br>4.8<br>6.7<br>19.2<br>4.8<br>6.7<br>19.2<br>-2.8<br>1-2.8<br>-1.2<br>-2.8<br>-1.2<br>-3.5<br>-6.8<br>-1.2<br>-8.1<br>-8.1<br>-8.1<br>-8.1<br>-8.1<br>-8.2<br>-9.2<br>-9.2<br>-9.2<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.3<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>-9.5<br>- 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3.6<br>3.6<br>1.9<br>-2.3<br>-3.6<br>1.6<br>-1.4<br>7.0<br>-0.7<br>-1.6<br>1.2<br>-6.3<br>-4.8<br>-4.7<br>4.2<br>10.6<br>-4.8<br>-4.7<br>4.2<br>-4.8<br>3.9<br>1.3<br>-1.3<br>-1.3<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1.4<br>-1. 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| $\delta^{5}$<br>O<br>4.7<br>0.4<br>3.8<br>4.2<br>-0.2<br>-0.7<br>-4.3<br>0.4<br>-2.9<br>6.5<br>0.7<br>-2.1<br>1.1<br>-5.5<br>-3.1<br>-4.6<br>3.1<br>19.9<br>3.1<br>10.9<br>1.8<br>-5.5<br>-5.5<br>-5.5<br>-3.1<br>-4.6<br>-3.1<br>-4.6<br>-5.5<br>-3.1<br>-5.5<br>-5.5<br>-3.1<br>-5.5<br>-3.1<br>-5.5<br>-3.1<br>-5.5<br>-3.1<br>-5.5<br>-5.5<br>-3.1<br>-5.5<br>-5.5<br>-5.5<br>-3.1<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>-5.5<br>- | $\xi_{0}^{0}$<br>2.7<br>0.1<br>1.9<br>-1.9<br>-2.7<br>1.5<br>-2.4<br>1.5<br>-2.4<br>1.6<br>-0.7<br>1.3<br>-0.9<br>-1.0<br>-0.9<br>-4.4<br>7.6<br>4.6<br>7.9<br>0.9<br>0.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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4.6<br>0.5<br>4.0<br>2.6<br>-1.2<br>-3.7<br>-5.6<br>1.5<br>-2.1<br>1.5<br>-2.1<br>3.2<br>-3.2<br>-3.2<br>-3.2<br>-3.2<br>-3.2<br>-3.2<br>-3.5<br>6.1<br>11.1<br>6.2<br>-7.8<br>1.2<br>-7.8<br>1.2<br>-7.8<br>1.2<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8<br>-7.8 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| \$\vee\$           DINO [3]           MoCov2 [5]           SwAV [2]           BarlowTwins [27]           SwAV.2]           BarlowTwins [27]           SwAV [2]           BarlowTwins [27]           SwAV [2]           BarlowTwins [27]           SwAV [2]           BeiT B/16 [1]           EfficientNetB4 [20]           MLP-Mixer [21]           SwinT [14]           ResNet-101 [9]           InceptionV4 [19]           Manifold [22]           ReLabel [26]           IG-1B [23]           GV-D [17]           IN21K [10]           CLIP [15]           MoPro-V1 [12]           ViT B/16 [6]           D-Co-DNFC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3.4<br>-3.4<br>-0.4<br>-1.3<br>-0.4<br>-1.3<br>-0.4<br>-1.3<br>-0.4<br>-1.3<br>-0.4<br>-1.3<br>-2.2<br>8.0<br>9.0<br>7.6<br>-0.2<br>-2.4<br>-1.3<br>-2.2<br>-0.4<br>-1.3<br>-2.2<br>-0.4<br>-1.3<br>-2.2<br>-0.4<br>-1.3<br>-2.2<br>-0.4<br>-1.3<br>-2.2<br>-0.4<br>-1.3<br>-2.2<br>-0.4<br>-1.3<br>-2.2<br>-0.4<br>-1.3<br>-2.2<br>-0.4<br>-1.3<br>-2.2<br>-0.4<br>-1.3<br>-2.2<br>-0.4<br>-1.3<br>-2.2<br>-0.4<br>-1.3<br>-2.2<br>-0.4<br>-1.3<br>-2.2<br>-0.4<br>-1.3<br>-2.2<br>-0.4<br>-1.3<br>-2.2<br>-0.4<br>-1.3<br>-2.2<br>-0.4<br>-1.3<br>-2.2<br>-0.4<br>-1.3<br>-2.2<br>-0.4<br>-1.3<br>-2.2<br>-0.4<br>-1.3<br>-2.2<br>-0.4<br>-1.3<br>-2.2<br>-0.4<br>-2.4<br>-0.2<br>-2.4<br>-0.2<br>-2.4<br>-0.2<br>-2.4<br>-0.4<br>-0.2<br>-2.4<br>-0.4<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5<br>-0.5 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5/2<br>6.1<br>1.8<br>5.5<br>4.0<br>6.2<br>-2.1<br>1.2.0<br>3.4<br>-1.6<br>2.4<br>1.2.0<br>3.4<br>-1.8<br>2.4<br>1.1.2.0<br>-2.2.8<br>6.2<br>11.1<br>6.6<br>13.8<br>3.4<br>-2.1<br>-2.1<br>-2.2.8<br>6.2<br>11.3<br>3.4<br>-2.1<br>-2.8<br>6.2<br>11.3<br>3.4<br>-2.1<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.9<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.8<br>-2.9<br>-2.8<br>-2.9<br>-2.8<br>-2.9<br>-2.8<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9<br>-2.9 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| 6.4<br>3.9<br>6.5<br>4.6<br>5.8<br>-0.3<br>3.5<br>1.7<br>9.7<br>9.7<br>3.2<br>-2.2<br>2.4<br>-1.5<br>-1.6<br>6.1<br>10.9<br>6.2<br>10.7<br>6.2<br>10.7<br>2.4<br>7.6<br>6.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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$\overbrace{\nabla}^{\leftarrow}$<br>4.6<br>0.5<br>2.6<br>-1.2<br>-3.7<br>-5.6<br>1.5<br>-2.1<br>12.1<br>3.2<br>-3.2<br>-2.7<br>-3.5<br>6.1<br>11.1<br>6.2<br>7.8<br>1.8<br>10.0<br>0.3<br>-2.7<br>-3.5<br>-2.7<br>-3.5<br>-2.7<br>-3.5<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.7<br>-3.5<br>-3.1<br>-3.7<br>-3.7<br>-3.5<br>-3.7<br>-3.7<br>-3.5<br>-3.7<br>-3.5<br>-3.7<br>-3.5<br>-3.7<br>-3.5<br>-3.7<br>-3.5<br>-3.7<br>-3.5<br>-3.7<br>-3.5<br>-3.7<br>-3.5<br>-3.7<br>-3.5<br>-3.7<br>-3.5<br>-3.7<br>-3.5<br>-3.7<br>-3.5<br>-3.7<br>-3.5<br>-3.7<br>-3.5<br>-3.7<br>-3.5<br>-3.7<br>-3.5<br>-3.5<br>-3.8<br>-3.8<br>-3.8<br>-3.8<br>-3.8<br>-3.5<br>-3.8<br>-3.8<br>-3.8<br>-3.5<br>-3.5<br>-3.8<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3.5<br>-3. 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| 5           \$\$\vee\$           DINO [3]           MoCov2 [5]           SwAV [2]           BarlowTwins [27]           SwAV [2]           BarlowTwins [27]           SwAV [2]           BeidT B/16 [1]           EfficientNetB4 [20]           MLP-Mixer [21]           SwinT [14]           ResNet-101 [9]           InceptionV4 [19]           MeEAL-V2 [18]           CutMix [25]           Manifold [22]           ReLabel [26]           IG-1B [23]           GV-D [17]           IN21K [10]           CLIP [15]           MoPro-V1 [12]           ViT B/16 [6]           PeCo RN50           Reco BN50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5.0<br>5.0<br>1.9<br>5.1<br>3.1<br>0.3<br>-3.3<br>-6.0<br>3.4<br>-1.3<br>14.4<br>5.6<br>0.2<br>4.5<br>-0.4<br>5.1<br>3.4<br>-1.3<br>14.4<br>5.6<br>0.2<br>4.5<br>-0.2<br>8.0<br>9.0<br>7.6<br>10.2<br>2.4<br>11.6<br>2.6<br>2.4<br>11.6<br>2.6<br>-2.4<br>11.6<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2.4<br>-2 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                                                                                                                                                                                                                                                                                                                                                            | $\begin{array}{c} & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & 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