

Classifier	Linear Classifier						k NN
Feature	conv1	conv2	conv3	conv4	conv5	FC	FC
<i>Random</i>	11.6	17.1	16.9	16.3	14.1	12.0	3.5
<i>Supervised</i>	19.3	36.3	44.2	48.3	50.5	-	-
Context	17.5	23.0	24.5	23.2	20.6	30.4	-
BiGAN	17.7	24.5	31.0	29.9	28.0	32.2	-
Colour	13.1	24.8	31.0	32.6	31.8	35.2	-
Jigsaw	19.2	30.1	34.7	33.9	28.3	38.1	-
NAT	-	-	-	-	-	36.0	-
Counting	18.0	30.6	34.3	32.5	25.7	-	-
Split-Brain	17.7	29.3	35.4	35.2	32.8	-	11.8
DeepCluster	13.4	32.3	41.0	39.6	38.2	-	26.8
Instance	16.8	26.5	31.8	34.1	35.6	-	31.3
AND	15.6	27.0	35.9	39.7	37.9	36.7	31.3

Table 2. Comparing the classification results of unsupervised learning methods on ImageNet. The results of existing methods are from (Wu et al., 2018; Bojanowski & Joulin, 2017).