

Zero-Shot Experiments (3)

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Result under the new setting

| | AwA1 | | | | AwA2 | | | | CUB | | | |
|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Model | ZSL T1 | u | GZSL s | H | ZSL T1 | u | GZSL s | H | ZSL T1 | u | GZSL s | H |
| DAP [24] | 44.1 | 0.0 | 88.7 | 0.0 | 46.1 | 0.0 | 84.7 | 0.0 | 40.0 | 1.7 | 67.9 | 3.3 |
| CONSE [28] | 45.6 | 0.4 | 88.6 | 0.8 | 44.5 | 0.5 | 90.6 | 1.0 | 34.3 | 1.6 | 72.2 | 3.1 |
| SSE [46] | 60.1 | 7.0 | 80.5 | 12.9 | 61.0 | 8.1 | 82.5 | 14.8 | 43.9 | 8.5 | 46.9 | 14.4 |
| DEVISE [11] | 54.2 | 13.4 | 68.7 | 22.4 | 59.7 | 17.1 | 74.7 | 27.8 | 52.0 | 23.8 | 53.0 | 32.8 |
| SJE [3] | 65.6 | 11.3 | 74.6 | 19.6 | 61.9 | 8.0 | 73.9 | 14.4 | 53.9 | 23.5 | 59.2 | 33.6 |
| LATEM [41] | 55.1 | 7.3 | 71.7 | 13.3 | 55.8 | 11.5 | 77.3 | 20.0 | 49.3 | 15.2 | 57.3 | 24.0 |
| ESZSL [31] | 58.2 | 6.6 | 75.6 | 12.1 | 58.6 | 5.9 | 77.8 | 11.0 | 53.9 | 12.6 | 63.8 | 21.0 |
| ALE [2] | 59.9 | 16.8 | 76.1 | 27.5 | 62.5 | 14.0 | 81.8 | 23.9 | 54.9 | 23.7 | 62.8 | 34.4 |
| SYNC [6] | 54.0 | 8.9 | 87.3 | 16.2 | 46.6 | 10.0 | 90.5 | 18.0 | 55.6 | 11.5 | 70.9 | 19.8 |
| SAE [21] | 53.0 | 1.8 | 77.1 | 3.5 | 54.1 | 1.1 | 82.2 | 2.2 | 33.3 | 7.8 | 57.9 | 29.2 |
| DEM [45] | 68.4 | 32.8 | 84.7 | 47.3 | 67.1 | 30.5 | 86.4 | 45.1 | 51.7 | 19.6 | 54.0 | 13.6 |
| RELATION NET | 68.2 | 31.4 | 91.3 | 46.7 | 64.2 | 30.0 | 93.4 | 45.3 | 55.6 | 38.1 | 61.1 | 47.0 |

Table 4: Comparative results under the GBU setting. Under the conventional ZSL setting, the performance is evaluated using per-class average Top-1 (**T1**) accuracy (%), and under GZSL, it is measured using **u** = **T1** on unseen classes, **s** = **T1** on seen classes, and **H** = harmonic mean.



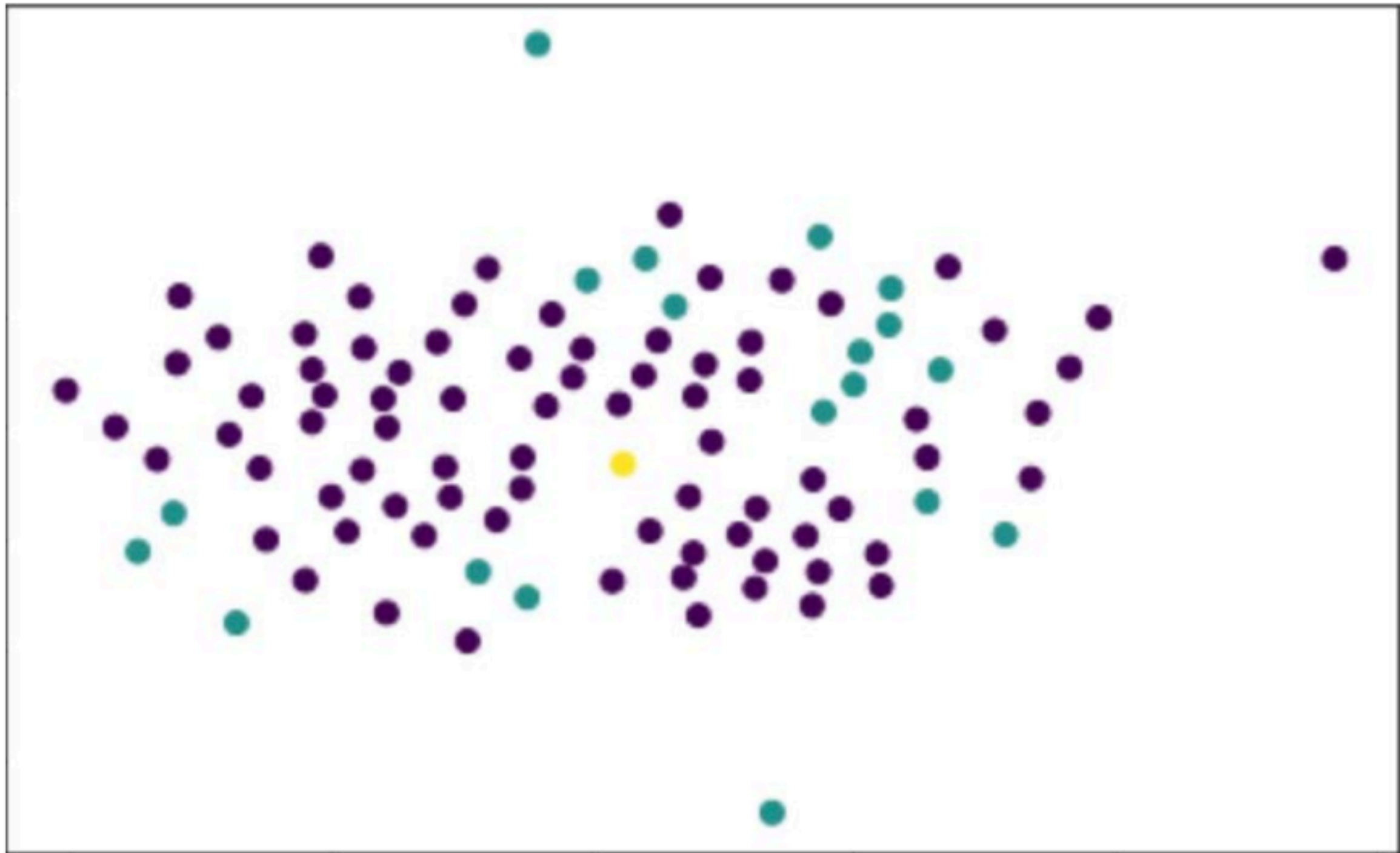






Concursion

Non-Linearity Problem



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