**label frequency experiments using top-2 and top-3 result**

In top-2 many results are zero values, so I plot use top-3 results.

目录

[Top-3 1](#_Toc5798447)

[Top-2 6](#_Toc5798448)

## Top-3

Label Frequency experiments use **top 3** and **group number=3** for GPU,RAM,Screen

|  |  |
| --- | --- |
|  | MLP |
| Pointwise average of word embedding  (ave) | cur exp setting: ram, ave  Split into 3 groups  recalls:  0.9232449607784728  0.5282796543597801  0.0  f1:  0.23081124019461824  0.13206991358994502  nan |
| cur exp setting: gpu, ave  Split into 3 groups  recalls:  0.5  0.9649122807017544  0.0  f1:  0.125  0.2412280701754386  nan |
| cur exp setting: screen, ave  Split into 3 groups  recalls:  1.0  0.4777777777777778  0.35294117647058826  f1:  0.25  0.11944444444444445  0.08823529411764706 |
| cur exp setting: hd, ave  Split into 3 groups  recalls:  0.7302200374531834  0.31652046783625726  0.08333333333333333  f1:  0.18255500936329588  0.07913011695906433  0.020833333333333332 |
|  |
| Pointwise maximum of word embedding  (max) | cur exp setting: ram, max  Split into 3 groups  recalls:  0.6111111111111112  0.881578947368421  0.0  f1:  0.15277777777777776  0.22039473684210528  nan |
| cur exp setting: gpu, max  Split into 3 groups  recalls:  0.5  1.0  0.0  f1:  0.125  0.25  nan |
| cur exp setting: screen, max  Split into 3 groups  recalls:  1.0  0.5  0.0  f1:  0.25  0.125  nan |
| cur exp setting: hd, max  Split into 3 groups  recalls:  0.6666666666666666  0.3333333333333333  0.0  f1:  0.16666666666666666  0.08333333333333333  nan |
|  |
| The concatenation of the pointwise average and maximum of word embedding  (concat) | cur exp setting: ram, concat  Split into 3 groups  recalls:  0.6759259259259259  0.9210526315789473  0.0  f1:  0.16898148148148148  0.23026315789473684  nan |
| cur exp setting: gpu, concat  Split into 3 groups  recalls:  0.5  0.9649122807017544  0.0  f1:  0.125  0.2412280701754386  nan |
| cur exp setting: screen, concat  Split into 3 groups  recalls:  1.0  0.43333333333333335  0.4117647058823529  f1:  0.25  0.10833333333333334  0.10294117647058823 |
| cur exp setting: hd, concat  Split into 3 groups  recalls:  0.7064606741573033  0.3508771929824561  0.0  f1:  0.17661516853932585  0.08771929824561403  nan |
|  |
| Hierarchical pooling  (hier) | cur exp setting: ram, hier  Split into 3 groups  recalls:  0.7537732102075265  0.5485074626865671  0.75  f1:  0.18844330255188163  0.13712686567164178  0.1875 |
| cur exp setting: gpu, hier  Split into 3 groups  recalls:  0.5758928571428572  0.6719298245614036  0.3214285714285714  f1:  0.14397321428571427  0.1679824561403509  0.08035714285714285 |
| cur exp setting: screen, hier  Split into 3 groups  recalls:  0.9085199824330259  0.5  0.35294117647058826  f1:  0.2271299956082565  0.125  0.08823529411764706 |
| cur exp setting: hd, hier  Split into 3 groups  recalls:  0.7993455870379417  0.4057017543859649  0.041666666666666664  f1:  0.19983639675948542  0.10142543859649122  0.010416666666666666 |
|  |

## Top-2

Label Frequency experiments use **top 2** and **group number=3** for GPU,RAM,Screen

|  |  |
| --- | --- |
|  | MLP |
| Pointwise average of word embedding  (ave) | cur exp setting: ram, ave  Split into 3 groups  recalls:  0.6202462516135439  0.35408483896307935  0.0  f1:  0.20674875053784794  0.11802827965435979  nan |
| cur exp setting: hd, ave  Split into 3 groups  recalls:  0.6438639879498452  0.05263157894736842  0.0  f1:  0.21462132931661507  0.017543859649122806  nan |
| recalls:  0.49851190476190477  0.566347687400319  0.0  f1:  0.1661706349206349  0.18878256246677302  nan |
| cur exp setting: screen, ave  Split into 3 groups  recalls:  0.8533377250768555  0.08888888888888889  0.17647058823529413  f1:  0.28444590835895184  0.02962962962962963  0.05882352941176471 |
|  |
| Pointwise maximum of word embedding  (max) | cur exp setting: ram, max  Split into 3 groups  recalls:  0.5  0.5  0.0  f1:  0.16666666666666666  0.16666666666666666  nan |
| cur exp setting: hd, max  Split into 3 groups  recalls:  0.5205992509363296  0.2280701754385965  0.0  f1:  0.17353308364544323  0.0760233918128655  nan |
| cur exp setting: gpu, max  Split into 3 groups  recalls:  0.5  0.5  0.0  f1:  0.16666666666666666  0.16666666666666666  Nan |
| cur exp setting: screen, max  Split into 3 groups  recalls:  1.0  0.0  0.0  f1:  0.3333333333333333  nan  nan |
|  |
| The concatenation of the pointwise average and maximum of word embedding  (concat) | cur exp setting: ram, concat  Split into 3 groups  recalls:  0.5  0.4925373134328358  0.0  f1:  0.16666666666666666  0.16417910447761191  nan |
| cur exp setting: hd, concat  Split into 3 groups  recalls:  0.6591760299625468  0.05263157894736842  0.0  f1:  0.21972534332084892  0.017543859649122806  nan |
| cur exp setting: gpu, concat  Split into 3 groups  recalls:  0.5  0.5477671451355662  0.0  f1:  0.16666666666666666  0.18258904837852208  nan |
| cur exp setting: screen, concat  Split into 3 groups  recalls:  0.9454545454545454  0.0  0.11764705882352941  f1:  0.3151515151515151  nan  0.03921568627450981 |
|  |
| Hierarchical pooling  (hier) | cur exp setting: ram, hier  Split into 3 groups  recalls:  0.6595918975275543  0.3835428122545169  0.125  f1:  0.2198639658425181  0.12784760408483895  0.041666666666666664 |
| cur exp setting: hd, hier  Split into 3 groups  recalls:  0.6447748737990555  0.2404970760233918  0.0  f1:  0.2149249579330185  0.08016569200779726  nan |
| cur exp setting: gpu, hier  Split into 3 groups  recalls:  0.4806547619047619  0.5692982456140351  0.07142857142857142  f1:  0.16021825396825395  0.18976608187134505  0.023809523809523808 |
| cur exp setting: screen, hier  Split into 3 groups  recalls:  0.751624945103206  0.2111111111111111  0.11764705882352941  f1:  0.25054164836773535  0.07037037037037037  0.03921568627450981 |
|  |