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1: 'dog',
2: 'trump',
3: 'love',
4: 'love',
5: 'love',
6: 'u',
7: 'day',
8: 'black',
9: 'black',
10: 'new',
11: 'woman',
12: 'people',
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14: 'woman',
15: 'one',
16: 'time',
17: 'time',
18: 'good',
19: 'get',
20: 'action',
21: 'nake',
22: 'life',
23: 'life',
24: 'today',
25: 'feel',
26: 'feel',
27: 'say',
28: 'girl',
29: 'family',
30: 'allahsoil',
31: 'want',
32: 'want',
33: 'hate',
34: 'thankful',
35: 'jw',
36: 'positive',
37: 'video',
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39: 'way',
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52: 'listen',
53: 'let',
54: 'never',
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58: 'father',
59: 'family',
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664: 'nigger',
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676: 'photoottheday',
677: 'tax',
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696: 'sweet',
697: 'folk',
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717: 'event',
718: 'yoxk',
719: 'tax',
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767: 'tax',
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784: 'taking',
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788: 'tax',
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790: 'laugh',
791: 'tax',
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794: 'tax',
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796: 'calm',
797: 'wednesday',
798: 'though',
799: 'tgif',
800: 'honestybaby',
801: 'meet',
802: 'actor',
803: 'tax',
804: 'prayer',
805: 'shop',
806: 'tax',
807: 'immigration',
808: 'damn',
809: 'decided',
810: 'walking',
811: 'fake',
812: 'absolutely',
813: 'seat',
814: 'tax',
815: 'customer',
816: 'tax',
819: 'pls',
820: 'giving',
821: 'hail',
822: 'love',
823: 'dress',
824: 'tax',
825: 'three',
826: 'tax',
827: 'follow',
828: 'relationship',
829: 'tax',
830: 'impossible',
831: 'tax',
832: 'gender',
837: 'organization',
838: 'card',
839: 'tax',
840: 'british',
841: 'style',
842: 'tax',
843: 'fall',
844: 'pick',
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846: 'leftist',
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851: 'tax',
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853: 'deep',
854: 'tax',
855: 'water',
856: 'side',
857: 'tax',
858: 'neverump',
859: 'choose',
860: 'tax',
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862: 'plan',
863: 'tax',
864: 'bbc',
865: 'speech',
866: 'tax',
867: 'da',
868: 'shoe',
869: 'tax',
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871: 'logger',
872: 'tax',
873: 'etc',
874: 'common',
875: 'tax',
876: 'seriously',
877: 'offer',
878: 'tax',
879: 'cavs',
880: 'suppling',
881: 'tax',
882: 'cow',
883: 'bully',
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885: 'experience',
886: 'government',
887: 'tax',
888: 'donkey',
889: 'tax',
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891: 'tax',
892: 'colonialism',
893: 'tax',
894: 'democrat',
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896: 'tax',
897: 'teenagerjunior',
898: 'speaking',
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900: 'jeffsessions',

901: 'environmental',
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905: 'accuse',
906: 'milo',
907: 'marijuana',
908: 'sensitized',
909: 'fakenews',
910: 'hollywood',
911: 'hater',
912: 'michelleobama',
913: 'belief',
914: 'adventure',
915: 'joy',
916: 'jesus',
917: 'husband',
918: 'bout',
919: 'lebron',
920: 'snaphot',
921: 'shy',
922: 'e',
923: 'literally',
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927: 'bus',
928: 'shoot',
929: 'secret',
930: 'south',
931: 'wage',
932: 'expectation',
933: 'welcome',
934: 'safe',
935: 'save',
936: 'university',
937: 'edinburgh',
938: 'daughters',
939: 'tv',
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942: 'fail',
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944: 'tried',
945: 'excuse',
946: 'stage',
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948: 'seen',
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951: 'bonus',
952: 'beat',
953: 'success',
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955: 'reaction',
956: 'suicide',
957: 'changed',
958: 'officially',
959: 'pink',
960: 'series',
961: 'united',
962: 'legend',
963: 'london',
964: 'classic',
965: 'felt',
966: 'profile',
967: 'staff',
968: 'path',
969: 'rather',
970: 'upcoming',
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972: 'late',
973: 'killed',
974: 'king',
975: 'known',
976: 'development',
977: 'begin',
978: 'happier',
979: 'wake',
980: 'cloud',
981: 'eat',
982: 'alive',
983: 'everyday',
984: 'data',
985: 'flower',
986: 'shame',
987: 'workout',
988: 'progress',
989: 'movement',
990: 'bride',
991: 'later',
992: 'instagram',
993: 'survive',
994: 'sam',
995: 'surprised',
996: 'euro',
997: 'extremism',
998: 'clinton',
999: 'repo',
1000: 'texas',
...)

In [34]: vocab_len = len(tok.index_word)

vocab_len

Out[34]: 7990

In [36]: sequences_train = tok.texts_to_sequences(x_train_bal)

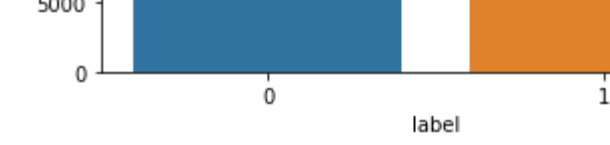
In [37]: sequences_train


```
df_aug
df_aug
del tem
```

3
4
...
26863

```
[26868 rows x 1 column]
```

Category	Number of people
Do not use the Internet	29,000



```
In [96]: df_aug.head()
```

	id	label	tweet	sent	len
0	1.0	0	user father dysfunctional selfish drag kid dys...	8.0	14.0
1	2.0	0	user user thanks lyft credit ca use cause off...	14.0	14.0
2	3.0	0	birthday majesty	2.0	14.0
3	4.0	0	model love u take u time	6.0	14.0
4	5.0	0	factsguide society motivation	3.0	14.0

Training and Testing Data

```
In [97]: x = df_aug["tweet"].values
         y = df_aug["label"].values
```

```
In [99]: max(sent_len)
```

```
In [102]: # Tokenization
          tok = Tokenizer(char_level=False, split=' ')
          tok.fit_on_texts(s_train)

In [103]: tok.index_word
```

1: 'user',
2: 'love',
3: 'love',
4: 'day',
5: 'like',
6: 'trump',
7: 'like',
8: 'like',
9: 'happy',
10: 'white',
11: 'cater',
12: 'new',
13: 'get',
14: 'like',
15: 'time',
16: 'woman',
17: 'like',
18: 'one',
19: 'today',
20: 'like',
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998: 'actor',
999: 'voice',
1000: 'moron',
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In [104]: vocab_len = len(tok.index_word)
vocab_len

Out[104]: 3202

In [105]: sequences_train = tok.texts_to_sequences(x_train)

In [106]: sequences_train


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