

# Youtube\_comment\_scraping

May 14, 2019

```
In [0]: !pip install langdetect
```

```
Collecting langdetect
```

```
  Downloading https://files.pythonhosted.org/packages/59/59/4bc44158a767a6d66de18c4136c8aa9049
```

```
    || 1.0MB 5.0MB/s
```

```
Requirement already satisfied: six in /usr/local/lib/python3.6/dist-packages (from langdetect)
```

```
Building wheels for collected packages: langdetect
```

```
  Building wheel for langdetect (setup.py) ... done
```

```
  Stored in directory: /root/.cache/pip/wheels/ec/0c/a9/1647275e7ef5014e7b83ff30105180e332867d
```

```
Successfully built langdetect
```

```
Installing collected packages: langdetect
```

```
Successfully installed langdetect-1.0.7
```

```
In [0]: !pip install langdetect
```

```
Requirement already satisfied: langdetect in /usr/local/lib/python3.6/dist-packages (1.0.7)
```

```
Requirement already satisfied: six in /usr/local/lib/python3.6/dist-packages (from langdetect)
```

```
In [0]: import pandas as pd
        from google.colab import files
```

```
        # import langdetect
```

```
        # from langdetect import detect
```

```
        import requests
```

```
        import json
```

```
        import re
```

```
In [0]: videoId = "YbJOTdZBX1g"
```

```
        #Enter your youtubeAPI key
```

```
        key=""
```

```
        r = requests.get('https://www.googleapis.com/youtube/v3/commentThreads?part=snippet%2C
```

```
        r.status_code
```

```
Out[0]: 200
```

```

In [0]: d=json.loads(r.text)

In [0]: nextPageToken=d["nextPageToken"]

In [0]: len(r.text)

Out[0]: 125725

In [0]: import json
        x=json.loads(r.text)

In [0]: x

Out[0]: {'etag': '"XpPGQXPnxQJhLgs6enD_n8JR4Qk/gZVzwyvXIFJM1UqTs1Nn-Ih0soI"',
  'items': [{'etag': '"XpPGQXPnxQJhLgs6enD_n8JR4Qk/ZKp3fRstdoX30b47onp6fVNUUFs"',
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    'kind': 'youtube#commentThread',
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        'authorProfileImageUrl': 'https://yt3.ggpht.com/-09W3UIZPlvg/AAAAAAAAAAAI/AAAAAA',
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        'likeCount': 1,
        'parentId': 'UgxUl3xIalM1yBRIOf14AaABAg',
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        'textOriginal': 'wait',
        'updatedAt': '2019-05-14T08:47:30.000Z',
        'videoId': 'YbJOTdZBX1g',
        'viewerRating': 'none'}}]},
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        'viewerRating': 'none'}}]}]}],
  'viewerRating': 'none'}}]]},

```

```

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'updatedAt': '2019-05-14T08:40:15.000Z',
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```

```

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```

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'textOriginal': '2019 rewind better be litter than this',
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'kind': 'youtube#comment',
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```



```

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'authorDisplayName': 'Kristina sucks',
'authorProfileImageUrl': 'https://yt3.ggpht.com/-FFJxzAiQV8/AAAAAAAAAAI/AAAAAAAA',
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'videoId': 'YbJOTdZBX1g',
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{'etag': '"XpPGQXPnxQJhLgs6enD_n8JR4Qk/VqMkZscVIqdm1R8f20brPBmPnhY"',
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'isPublic': True,
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'id': 'UgwWyOrUJnginOj9snZ4AaABAg',
'kind': 'youtube#comment',
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'authorChannelUrl': 'http://www.youtube.com/channel/UCVzo_FZY3W39DT-Ea4XGE1w',
'authorDisplayName': 'Alguien P C',
'authorProfileImageUrl': 'https://yt3.ggpht.com/-iW_gRYw_zJO/AAAAAAAAAAI/AAAAAAAA',
'canRate': True,
'likeCount': 0,
'publishedAt': '2019-05-14T03:54:29.000Z',
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'updatedAt': '2019-05-14T03:54:29.000Z',
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'pageInfo': {'resultsPerPage': 100, 'totalResults': 100}}

```

```

In [0]: print(len(x["items"]))
1=[]
for i in range(len(x["items"])):
    l.append(x["items"][i]["snippet"]["topLevelComment"]["snippet"]["textOriginal"])

```

100

In [0]: 1

```
Out[0]: ['first one to answer is gat',
'Whos here to check dislikes?',
'Guys, please stop with the hate comments. Im tired of liking them all!!',
"*youtube makes the most disliked video on youtube*\nI'm so proud of this community",
'Why do all these comments have over 1000 likes?',
"'EvErYoNeCoNtRoLsRiWiNd'\nReally??\n isn't pwediepie someone too",
'U should add pwediepie and jacksepticeye',
'3:12 SUB 2 PEWDS',
'chill... the likes are from australians',
'Thanks to Jaiden Animations for bringing pews in this.',
'I like how the didnt even have Korean on the wall @1:41 when they were promoting kpop',
'Worst video ever made in the history of YouTube',
'Ok first of all who would want Fortnite in our YouTube rewind',
'This is trash',
'We did it boys! The most disliked video on the platform by the platform!',
"Who's watching while\n\n\n\nBreathing",
'THERE IS ONE THING THIS VIDEO NEEDS K POP!\nno..',
'Contador de cringe en todo el vídeo llevo a 2829592010939495999999493848493994958282',
'Will Smith, ninja and nick eh 30 were the only ones good in this',
'I dont only hate this because pwediepies not in it but because of HOW FREAKING BORING',
'this is just cringe.',
'The ace family should be in YouTube rewind',
'This rewind is trash',
'6:56 me when it's time to get vacation at another country, and I see the airplane he',
'Wonder what 2019 would be like',
'I guess everyone controls rewind isn't a good idea huh?",
'it is so hard to watch such a bad video',
'James Charles\n"Sister Squad"',
'Wow youtube has less subscribers then pwediepie and T-Series\n\n\n*Read More*',
' 8:14\n                        8:14\n"Who's here after most like comments on Youtube?",
'Yaaah',
'Wait! Hold on, you know who really needs to be a part of rewind?\n\n*Pewdiepie*',
'6:19 **Sister canceled**',
'they ended the video on an unlucky time',
'Too many politics, plain and simple',
'2019 rewind better be good \nAnd have to have pwediepie on it this time',
'The 2018 rewind is the most disliked video on YouTube \n\nJames:hold my make up',
'Still trash',
'War, War never changes...',
'Thanos: I hate you 3000',
'Where the fucc is the Swedish Boi?',
'can anyone explain to me why this video has the most dislikes before James Charles?',
'Furious Jumper ',
'Yeah, James Charles is at minute 5:50',
'James Charle vs this video',
```

'I aM SO ProUD oF tHiS coMMunitY',  
 'GIVE ME LIKES!!!',  
 'wow the comments are alive',  
 'YouTube: most disliked video known to man\nJames Charles: HI sIsTeRs.!a&,'  
 'They had Eroldstory but not Somethingelseyt or Let me explain studios\n',  
 'We im getting married!?!?!? 1:55',  
 'Who watched End Game? Like if u did. Too bad Thanos couldn't snap this video from ex',  
 'Fea la wea jajajajajja',  
 'Why is this so disliked? I really liked it!',  
 'i need to marry bongo cat\n\npleaaaaasseeeee',  
 'Who watched this after wanting to know if James Charles had more dislikes in 2019',  
 ',  
 'I m puking blood after watching this video',  
 '',  
 "Guys, STOP with all these hate comments, I'm tired of liking them all ",  
 "Guys, STOP with all these hate comments, I'm tired of liking them all ",  
 "Guys, STOP with all these hate comments, I'm tired of liking them all ",  
 "Guys, STOP with all these hate comments, I'm tired of liking them all ",  
 'Solo me gusto donde habla luisito comunica',  
 'Ei , vendo esse vídeo agora , n ficou tão ruim.\nToma meu like.',  
 'the only good part of this is all the animators',  
 'nxt year it better be good',  
 'Who came here after reading the James Charles comments in the video called Tati',  
 'Ascoooo con jukimierda',  
 'The likes of this video is the dislikes of James Charles tati vid wait but why dont',  
 'james charles is coming for your crown ',  
 'LMA000, 16M dislikes?!',  
 'YouTube rewind: most disliked video\n\n\nJames Charles: hold my beer',  
 'Sonic,youtube rewind, james charles have a lot in common',  
 "Who's here to check whether james charles would beat the rewind!",  
 'Who will have the most dislikes, James or yt rewind?',  
 'Youtube rewind: \*most disliked video\*\n\nJames Charles: hold my palette',  
 'I want Sam and Colby on 2019 rewind',  
 '\*Did you find me among 2 million comments ?\*',  
 'Lmao',  
 '',  
 'Whos here after the james charles video?',  
 '16 man serious rewind))))',  
 'Everyone start liking so James Charles can have the most dislikes',  
 '16 MILLION DISLIKES DAMN I'M PROUD OF US ALL... XD",  
 '\_They put no effort into this, like look at the kpop moves \*\_offended\_',  
 'que raioz .\_. mis ojos wkenkw donde compro nuevos xd',  
 'youtube ~ we have the most disliked video on youtube \n\njames charles ~ hold my pinl',  
 'After 5 months since the YouTube Rewind 2018 was uploaded, there are already 16 mill',  
 'i think James Charles was the reason why this got so many dislikes',  
 'Uh... So whos here bc of "Tati"?',  
 'Who is here after James Charles lost his career?',  
 'YouTube rewind: 16M Dislikes\n\nJames Charles: HoLd mY SisTeR'S',

```
'james charles: *im bouta end this mans whole career*',
'wait, how did this get many dislikes',
'2019 rewind better be litter than this',
'Ew choose a better k pop song YouTube',
'Fortnite is gay roblox is gay Minecraft clearly da best',
'Tanta f**** concientización, pero ni han cerrado el canal de peluchin entertainment.'
```

```
In [0]: #check if it's an english comment
```

```
englishl=[]
nl=[]
for elem in l:
    # print(detect(elem))
    try:
        if detect(elem)=='en':
            englishl.append(elem)
    except:
        nl.append(elem)
```

```
In [0]: print(len(nl), len(l))
```

```
100 100
```

```
In [0]: englishl
```

```
Out[0]: []
```

## 1 Getting more comments

```
In [0]: import requests
```

```
videoId = "YbJOTdZBX1g"
key = "AIzaSyAD8h2iV30GP2029GNv2hCgK4aVxjn73tY"
r = requests.get('https://www.googleapis.com/youtube/v3/commentThreads?part=snippet%2CtopLevelComment&videoId=YbJOTdZBX1g&key=AIzaSyAD8h2iV30GP2029GNv2hCgK4aVxjn73tY')
r.status_code
```

```
Out[0]: 200
```

```
In [0]: d=json.loads(r.text)
```

```
In [0]: print(len(x["items"]))
l=[]
for i in range(len(x["items"])):
    l.append(x["items"][i]["snippet"]["topLevelComment"]["snippet"]["textOriginal"])
```

```
100
```

```
In [0]: ne=[]
        for elem in l:
            # print(detect(elem))
            try:
                if detect(elem)=='en':
                    englishl.append(elem)
            else:
                ne.append(elem)
            except:
                nl.append(elem)
```

```
In [0]: print(len(englishl))
```

0

```
In [0]: nl
```

```
Out[0]: ['first one to answer is gat',
        'Whos here to check dislikes?',
        'Guys, please stop with the hate comments. Im tired of liking them all!!',
        '*youtube makes the most disliked video on youtube*\nI'm so proud of this community',
        'Why do all these comments have over 1000 likes?',
        "'EvErYoNeCoNtRoLsRiWiNd'\nReally??\n isn't pwediepie someone too",
        'U should add pwediepie and jacksepticeye',
        '3:12 SUB 2 PEWDS',
        'chill... the likes are from australians',
        'Thanks to Jaiden Animations for bringing pews in this.',
        'I like how the didnt even have Korean on the wall @1:41 when they were promoting kpop',
        'Worst video ever made in the history of YouTube',
        'Ok first of all who would want Fortnite in our YouTube rewind',
        'This is trash',
        'We did it boys! The most disliked video on the platform by the platform!',
        "Who's watching while\n\n\n\n\nBreathing",
        'THERE IS ONE THING THIS VIDEO NEEDS K POP!\nno..',
        'Contador de cringe en todo el video llevo a 2829592010939495999999493848493994958282',
        'Will Smith, ninja and nick eh 30 were the only ones good in this',
        'I dont only hate this because pwediepies not in it but because of HOW FREAKING BORING',
        'this is just cringe.',
        'The ace family should be in YouTube rewind',
        'This rewind is trash',
        '6:56 me when it's time to get vacation at another country, and I see the airplane heading',
        'Wonder what 2019 would be like',
        'I guess everyone controls rewind isn't a good idea huh?',
        'it is so hard to watch such a bad video',
        'James Charles\n"Sister Squad"',
        'Wow youtube has less subscribers then pwediepie and T-Series\n\n\n*Read More*',
        ' 8:14\n                        8:14\n        "Who's here after most like comments on Youtube?",
```

'Yaaaah',  
 'Wait! Hold on, you know who really needs to be a part of rewind?\n\n\*Pewdiepie\*',  
 '6:19 \*\*Sister canceled\*\*',  
 'they ended the video on an unlucky time',  
 'Too many politics, plain and simple',  
 '2019 rewind better be good \nAnd have to have pewdiepie on it this time',  
 'The 2018 rewind is the most disliked video on YouTube \n\nJames:hold my make up',  
 'Still trash',  
 'War, War never changes...',  
 'Thanos: I hate you 3000',  
 'Where the fucc is the Swedish Boi?',  
 'can anyone explain to me why this video has the most dislikes before James Charles?',  
 'Furious Jumper ',  
 'Yeah, James Charles is at minute 5:50',  
 'James Charle vs this video',  
 'I aM SO ProUD oF tHiS coMMunity',  
 'GIVE ME LIKES!!!',  
 'wow the comments are alive',  
 'YouTube: most disliked video known to man\nJames Charles: HI sIsTeRs.!a&,'  
 'They had Eroldstory but not Somethingelseyt or Let me explain studios\n',  
 'We im getting married!?!?!? 1:55',  
 'Who watched End Game? Like if u did. Too bad Thanos couldn't snap this video from ex',  
 'Fea la wea jajajajajja',  
 'Why is this so disliked? I really liked it!',  
 'i need to marry bongo cat\n\npleaaaassseeeeeee',  
 'Who watched this after wanting to know if James Charles had more dislikes in 2019',  
 ',  
 'I m puking blood after watching this video',  
 ',  
 "Guys, STOP with all these hate comments, I'm tired of liking them all ",  
 "Guys, STOP with all these hate comments, I'm tired of liking them all ",  
 "Guys, STOP with all these hate comments, I'm tired of liking them all ",  
 "Guys, STOP with all these hate comments, I'm tired of liking them all ",  
 'Solo me gusto donde habla luisito comunica',  
 'Ei , vendo esse vídeo agora , n ficou tão ruim.\nToma meu like.',  
 'the only good part of this is all the animators',  
 'nxt year it better be good',  
 'Who came here after reading the James Charles comments in the video called Tati',  
 'Ascoooo con jukimierda',  
 'The likes of this video is the dislikes of James Charles tati vid wait but why dont  
 'james charles is coming for your crown ',  
 'LMA000, 16M dislikes?!',  
 'YouTube rewind: most disliked video\n\n\nJames Charles: hold my beer',  
 'Sonic,youtube rewind, james charles have a lot in common',  
 'Who's here to check whether james charles would beat the rewind!',  
 'Who will have the most dislikes, James or yt rewind?',  
 'Youtube rewind: \*most disliked video\*\n\nJames Charles: hold my palette',  
 'I want Sam and Colby on 2019 rewind',

'\*Did you find me among 2 million comments ?\*',  
 'Lmao',  
 '',  
 'Whos here after the james charles video?',  
 '16 man serious rewind)))))',  
 'Everyone start liking so James Charles can have the most dislikes',  
 '16 MILLION DISLIKES DAMN I'M PROUD OF US ALL... XD",  
 '\_They put no effort into this, like look at the kpop moves \*\_offended\_\*,  
 'que raioz .\_ . mis ojos wkenkw donde compro nuevos xd',  
 'youtube ~ we have the most disliked video on youtube \n\njames charles ~ hold my pin',  
 'After 5 months since the YouTube Rewind 2018 was uploaded, there are already 16 mill.  
 'i think James Charles was the reason why this got so many dislikes',  
 'Uh... So whos here bc of "Tati"?',  
 'Who is here after James Charles lost his career?',  
 'YouTube rewind: 16M Dislikes\n\nJames Charles: HoLd mY SiSTErS',  
 'james charles: \*im bouta end this mans whole career\*',  
 'wait, how did this get many dislikes',  
 '2019 rewind better be litter than this',  
 'Ew choose a better k pop song YouTube',  
 'Fortnite is gay roblox is gay Minecraft clearly da best',  
 'Tanta f\*\*\*\* concientización, pero ni han cerrado el canal de peluchin entertainment. ',  
 'first one to answer is gat',  
 'Whos here to check dislikes?',  
 'Guys, please stop with the hate comments. Im tired of liking them all!!!',  
 '\*youtube makes the most disliked video on youtube\*\nI'm so proud of this community",  
 'Why do all these comments have over 1000 likes?',  
 "'EvErYoNeCoNtRoLsRiWiNd'\nReally??\n isn't pwe diepie someone too",  
 'U should add pwe diepie and jacksepticeye',  
 '3:12 SUB 2 PEWDS',  
 'chill... the likes are from australians',  
 'Thanks to Jaiden Animations for bringing pews in this.',  
 'I like how the didnt even have Korean on the wall @1:41 when they were promoting kpop',  
 'Worst video ever made in the history of YouTube',  
 'Ok first of all who would want Fortnite in our YouTube rewind',  
 'This is trash',  
 'We did it boys! The most disliked video on the platform by the platform!',  
 "Who's watching while\n\n\n\nBreathing",  
 'THERE IS ONE THING THIS VIDEO NEEDS K POP!\nno..',  
 'Contador de cringe en todo el vídeo llevo a 2829592010939495999999493848493994958282',  
 'Will Smith, ninja and nick eh 30 were the only ones good in this',  
 'I dont only hate this because pwe diepies not in it but because of HOW FREAKING BORING',  
 'this is just cringe.',  
 'The ace family should be in YouTube rewind',  
 'This rewind is trash',  
 '6:56 me when it's time to get vacation at another country, and I see the airplane heading',  
 'Wonder what 2019 would be like',  
 'I guess everyone controls rewind isn't a good idea huh?',  
 'it is so hard to watch such a bad video',

'James Charles\n"Sister Squad"',  
 'Wow youtube has less subscribers then pewdiepie and T-Series\n\n\n\*Read More\*',  
 ' 8:14\n 8:14\n  
 "Who's here after most like comments on Youtube?",  
 'Yaaah',  
 'Wait! Hold on, you know who really needs to be a part of rewind?\n\n\*Pewdiepie\*',  
 '6:19 \*\*Sister canceled\*\*',  
 'they ended the video on an unlucky time',  
 'Too many politics, plain and simple',  
 '2019 rewind better be good \nAnd have to have pewdiepie on it this time',  
 'The 2018 rewind is the most disliked video on YouTube \n\nJames:hold my make up',  
 'Still trash',  
 'War, War never changes...',  
 'Thanos: I hate you 3000',  
 'Where the fucc is the Swedish Boi?',  
 'can anyone explain to me why this video has the most dislikes before James Charles?',  
 'Furious Jumper ',  
 'Yeah, James Charles is at minute 5:50',  
 'James Charle vs this video',  
 'I aM SO ProUD oF tHiS coMMunitY',  
 'GIVE ME LIKES!!!',  
 'wow the comments are alive',  
 'YouTube: most disliked video known to man\nJames Charles: HI sIsTeRs.!a&,'  
 'They had Eroldstory but not Somethingelseyt or Let me explain studios\n',  
 'We im getting married!?!?! 1:55',  
 "Who watched End Game? Like if u did. Too bad Thanos couldn't snap this video from ex",  
 'Fea la wea jajajajajja',  
 'Why is this so disliked? I really liked it!!',  
 'i need to marry bongo cat\n\npleaaaaasseeeee',  
 'Who watched this after wanting to know if James Charles had more dislikes in 2019',  
 ',  
 'I m puking blood after watching this video',  
 '',  
 "Guys, STOP with all these hate comments, I'm tired of liking them all ",  
 "Guys, STOP with all these hate comments, I'm tired of liking them all ",  
 "Guys, STOP with all these hate comments, I'm tired of liking them all ",  
 "Guys, STOP with all these hate comments, I'm tired of liking them all ",  
 'Solo me gusto donde habla luisito comunica',  
 'Ei , vendo esse vídeo agora , n ficou tão ruim.\nToma meu like.',  
 'the only good part of this is all the animators',  
 'nxt year it better be good',  
 'Who came here after reading the James Charles comments in the video called Tati',  
 'Ascoooo con jukimierda',  
 'The likes of this video is the dislikes of James Charles tati vid wait but why dont',  
 'james charles is coming for your crown ',  
 'LMA000, 16M dislikes?!',  
 'YouTube rewind: most disliked video\n\n\nJames Charles: hold my beer',  
 'Sonic,youtube rewind, james charles have a lot in common',



```
"Who's here to check whether james charles would beat the rewind!",
'Who will have the most dislikes, James or yt rewind?',
'Youtube rewind: *most disliked video*\n\nJames Charles: hold my palette',
'I want Sam and Colby on 2019 rewind',
'*Did you find me among 2 million comments ?*',
'Lmao',
'',
'Whos here after the james charles video?',
'16 man serious rewind))))',
'Everyone start liking so James Charles can have the most dislikes',
'16 MILLION DISLIKES DAMN I'M PROUD OF US ALL... XD",
'_They put no effort into this, like look at the kpop moves *_offended_*',
'que raioz ._. mis ojos wkenkw donde compro nuevos xd',
'youtube ~ we have the most disliked video on youtube \n\njames charles ~ hold my pinky',
'After 5 months since the YouTube Rewind 2018 was uploaded, there are already 16 million dislikes',
'i think James Charles was the reason why this got so many dislikes',
'Uh... So whos here bc of "Tati"?',
'Who is here after James Charles lost his career?',
'YouTube rewind: 16M Dislikes\n\nJames Charles: HoLd mY SiSTErS',
'james charles: *im bouta end this mans whole career*',
'wait, how did this get many dislikes',
'2019 rewind better be litter than this',
'Ew choose a better k pop song YouTube',
'Fortnite is gay roblox is gay Minecraft clearly da best',
'Tanta f**** concientización, pero ni han cerrado el canal de peluchin entertainment.'
```

In [0]: ne

Out[0]: []

## 2 Saving the comments to csv

```
In [0]: l=['Let me guess these are like the creators that not that many people care about but they care about',
'this is an example. here's a really random number: 4 i got it by throwing dice',
'YouTube: lets make a list of the most popular YouTubers in 2018\n\nAlso YouTube: Excuse me but I have a question',
'Now I get it this is why I have been getting stupid recommendations',
'ThIs iS ThWaSh',
'BTS IDOL YES',
'Any1 else watching this mess to then watch Pewd's version of it n have it b more satirical',
'I found the most disliked video',
'Pewdiepie and tseries in YouTube rewind 2019',
'this sux',
'Lets how irrelevant are these YouTubers;',
'We are missing PewDiePie',
'Ahh thats hot. Thats hot.',
'Only came here for Sister Squad',
'So why are all the top comments at the bottom?',
'Wow 16M',
```

'The like are reversed',  
 'I just realised they removed the dislikes',  
 'I hate who made Rewind 2018 is so cringy!!!',  
 '16mil and counting dang',  
 'Ok 16m dislikes... ù~ù                      ř~ř\n\n                      0~0',  
 'Seriously how the fck did over 2 million like this video.... Australians??',  
 'science of melting lipsticks? Does that even make sense?',  
 'what about xxx',  
 '3:49 mark made it',  
 'I used to expect the rewind all year round. Now I'm afraid of being screwed over. The',  
 'Honestly, the best part of this video was that guy playing with mud at the end.',  
 'If i controlled rewind i would want \nPewdiepie and brad 1',  
 'Most cringe ever',  
 'No wonder why Thanos wanted to wipe out the human race',  
 'This is worse than endgame spoilers',  
 'when you try to ACT nice and great, things become cringe',  
 'Ahsiaappp',  
 'We see this Video's For Unlike",  
 "This video is worse than PewDiePie's camera quality...",  
 'THEODDSIOUT!!!! JADENANIMATIONS!! TABBES!!! DOMICS!!! MARKIPLIER!!!! (Btw Hannah sto  
 'Hola',  
 'K pop, then where is BTS?',  
 'Wtf',  
 'Why Am I watching thisssss...?',  
 '2019 vai ser o melhor ano',  
 'Sonic is coming',  
 'Who is here after the sonic trailer.',  
 'Sister squadddd',  
 '4:19 can we also noticed that we dont care about that and more about pewds PEWDIEPIE  
 'TENIAN QUE HABER PUESTO A LUCHITO FUMANDO UN PORRO',  
 'I SAW COLLINS AND WENGIE AND MARELL TWINS AND FUNNEH WOO HOO',  
 'Here before 20M dislikes',  
 'Fucken cringe',  
 'Who even are half these people? And wheres pewdiepie,?!.!??,.,',  
 'People are just coming back to watch the dislikes, thats why they are getting views',  
 'Ahhh-will smith 2018',  
 'Wtf cada vez khe veo esto me da ganas de cortarme la bola izquierda v:',  
 "no one: \nyoutube : let's add idol by bts in our rewind even though we deleted views",  
 'Is it just me but like who are these ppl',  
 '2019 better have Pewdiepie or i will seriously chop my legs off as trubute',  
 'WE GOT PEWDIEPIE CHAIR',  
 'oh thats hop',  
 'j',  
 '3:25 to 3:27 the only good part',  
 'Jaiden PewDiePie',  
 'En donde están los demás YouTubers que hacen de YouTube la plataforma que todo el mun  
 'Jesus 16 million dislikes',  
 'Jaiden is bae for sneaking pewdiepie in',



"Any1 else watching this mess to then watch Pewd's version of it n have it b more sat.  
 'I found the most disliked video',  
 'Pewdiepie and tseries in YouTube rewind 2019',  
 'this sux',  
 'Lets how irrelevant are these YouTubers;',  
 'We are missing PewDiePie',  
 'Ahh thats hot. Thats hot.',  
 'Only came here for Sister Squad',  
 'So why are all the top comments at the bottom?',  
 'Wow 16M',  
 'The like are reversed',  
 'I just realised they removed the dislikes',  
 'I hate who made Rewind 2018 is so cringy!!!',  
 '16mil and counting dang',  
 'Ok 16m dislikes... ~ ~\n\n 0~0',  
 'Seriously how the fck did over 2 million like this video... Australians??',  
 'science of melting lipsticks? Does that even make sense?',  
 'what about xxx',  
 '3:49 mark made it',  
 'I used to expect the rewind all year round. Now I'm afraid of being screwed over. Th  
 'Honestly, the best part of this video was that guy playing with mud at the end.',  
 'If i controlled rewind i would want \nPewdiepie and brad 1',  
 'Most cringe ever',  
 'No wonder why Thanos wanted to wipe out the human race',  
 'This is worse than endgame spoilers',  
 'when you try to ACT nice and great, things become cringe',  
 'Ahsiaapp',  
 'We see this Video's For Unlike",  
 'This video is worse than PewDiePie's camera quality...',  
 'THEODDSIOUT!!!! JADENANIMATIONS!! TABBES!!! DOMICS!!! MARKIPLIER!!!! (Btw Hannah sto  
 'Hola',  
 'K pop, then where is BTS?',  
 'Wtf',  
 'Why Am I watching thisssss...?',  
 '2019 vai ser o melhor ano',  
 'Sonic is coming',  
 'Who is here after the sonic trailer.',  
 'Sister squadddd',  
 '4:19 can we also noticed that we dont care about that and more about pewds PEWDIEPIE  
 'TENIAN QUE HABER PUESTO A LUCHITO FUMANDO UN PORRO',  
 'I SAW COLLINS AND WENGIE AND MARELL TWINS AND FUNNEH WOO HOO',  
 'Here before 20M dislikes',  
 'Fucken cringe',  
 'Who even are half these people? And wheres pewdiepie,?!..!??,..',  
 'People are just coming back to watch the dislikes, thats why they are getting views'  
 'Ahhh-will smith 2018',  
 'Wtf cada vez khe veo esto me da ganas de cortarme la bola izquierda v:',  
 "no one: \nyoutube : let's add idol by bts in our rewind even though we deleted views

'Is it just me but like who are these ppl',  
'2019 better have Pewdiepie or i will seriously chop my legs off as trubute',  
'WE GOT PEWDIEPIE CHAIR',  
'oh thats hop',  
'j',  
'3:25 to 3:27 the only good part',  
'Jaiden PewDiePie',  
'En donde estn los dems YouTubers que hacen de YouTube la plataforma que todo el mundo',  
'Jesus 16 million dislikes',  
'Jaiden is bae for sneaking pewdiepie in',  
'Porque el Rewind hispano es mejor que esta cosa?',  
'Look at Jaiden animations and theodds1out @jaidenanimations,@theodds1out',  
'PewDiePie "its actuatly good"\n\nMy grandpa "\*INCREDIBLE JOB\*"',  
'PewDiePie come hier',  
'Every time I see bad things from YouTube, you can find me here',  
'YouTube has the most disliked video on YouTube.',  
'Hey YouTube rewind, you better watch out, theres a new video in town and its called S',  
';o i dont see sssnipewolf >;c',  
'Who else was waiting for Lazarbeam to throw an axe through a door screaming "FBI OPE',  
'Why do people think this is bad its great',  
'\*sees that we got this to be the most disliked YouTube video\* \nI am so proud of this',  
'5:26 \*DELETE THE VIDEO\*',  
'this was trash but you gotta admit the clay hing was pretty cool',  
'the only good part is with theodd1sout and jaiden',  
'Where's Pewdiepie",  
'The only people I know is the animators',  
'I would only like the video if they put SpaceXs Falcon Heavy.\n\n\n\nJk.',  
'She said Marshmello needs to be in this video when it looks like she's eating a marsl',  
'Anyone tryna find the #1 liked comment?',  
'Hubiesen puesto a ricardo milos',  
'4:09 not to be mean but I'm actually scared",  
'amazing lets give everyone what they wnt right',  
'I don't even understand why this video is so disliked",  
'es una verguensa como bailan i dol de bts osea no esta a su altura si los van a ofer',  
'I actually really like this YouTube rewind',  
'Wtf youtube what's this",  
'broooo 12.0000000000.00.0.0.0.0 dislikes',  
'So bad',  
'Id love to be part of rewind too',  
'Theres no pew vs t-sires',  
'And more collins key plz',  
'Sub to pews is in background at 3:12',  
'I'm french and i only reconise 4 person :)",  
'Let me do it next year']

```
In [0]: import pandas as pd
df=pd.DataFrame({"comments":s})
df=df.dropna()
```

```
In [0]: df[~df.isnull()]
```

```
Out[0]:
```

	comments
0	Let me guess these are like the creators that ...
1	this is an example. here's a really random num...
2	YouTube: lets make a list of the most popular ...
3	Now I get it this is why I have been getting s...
4	ThIs iS ThWaSh
5	BTS IDOL YES
6	Any1 else watching this mess to then watch Pew...
7	I found the most disliked video
8	Pewdiepie and tseries in YouTube rewind 2019
9	this sux
10	Lets how irrelevant are these YouTubers;
11	We are missing PewDiePie
12	Ahh thats hot. Thats hot.
13	Only came here for Sister Squad
14	So why are all the top comments at the bottom?
15	Wow 16M
16	The like are reversed
17	I just realised they removed the dislikes
18	I hate who made Rewind 2018 is so cringy!!!
19	16mil and counting dang
20	Ok 16m dislikes... ~ ~\n\n ...
21	Seriously how the fck did over 2 million like ...
22	science of melting lipsticks? Does that even m...
23	what about xxx
24	3:49 mark made it
25	I used to expect the rewind all year round. No...
26	Honestly, the best part of this video was that...
27	If i controlled rewind i would want \nPewdiepi...
28	Most cringe ever
29	No wonder why Thanos wanted to wipe out the h...
...	...
68	Every time I see bad things from YouTube, you ...
69	YouTube has the most disliked video on YouTube.
70	Hey YouTube rewind, you better watch out, ther...
71	;o i dont see sssniperwolf >;c
72	Who else was waiting for Lazarbeam to throw an...
73	Why do people think this is bad its great
74	*sees that we got this to be the most disliked...
75	5:26 *DELETE THE VIDEO*
76	this was trash but you gotta admit the clay hi...
77	the only good part is with theodd1sout and jaiden
78	Where's Pewdiepie
79	The only people I know is the animators
80	I would only like the video if they put SpaceX...
81	She said Marshmello needs to be in this video ...

```

82         Anyone tryna find the #1 liked comment?
83         Hubiesen puesto a ricardo milos
84         4:09 not to be mean but I'm actually scared
85         amazing lets give everyone what they wnt right
86 I don't even understand why this video is so d...
87 es una verguensa como bailan i dol de bts ose...
88         I actually really like this YouTube rewind
89         Wtf youtube what's this
90 broooo 12.00000000000.0.0.0.0.0.0.0.0.0.0.0.0...
91         So bad
92         Id love to be part of rewind too
93         Theres no pew vs t-sires
94         And more collins key plz
95         Sub to pewds is in background at 3:12
96         I'm french and i only reconise 4 person :)
97         Let me do it next year

```

```
[98 rows x 1 columns]
```

```
In [0]: df.to_csv("comments.csv")
```

```
In [0]: files.download("comments.csv")
```

### 3 Training the deep learning model

```

In [0]: # Install the latest Tensorflow version.
!pip3 install --quiet "tensorflow>=1.7"
# Install TF-Hub.
!pip3 install --quiet tensorflow-hub
!pip3 install seaborn

```

```

Requirement already satisfied: seaborn in /usr/local/lib/python3.6/dist-packages (0.9.0)
Requirement already satisfied: scipy>=0.14.0 in /usr/local/lib/python3.6/dist-packages (from seaborn)
Requirement already satisfied: numpy>=1.9.3 in /usr/local/lib/python3.6/dist-packages (from seaborn)
Requirement already satisfied: pandas>=0.15.2 in /usr/local/lib/python3.6/dist-packages (from seaborn)
Requirement already satisfied: matplotlib>=1.4.3 in /usr/local/lib/python3.6/dist-packages (from seaborn)
Requirement already satisfied: pytz>=2011k in /usr/local/lib/python3.6/dist-packages (from pandas)
Requirement already satisfied: python-dateutil>=2.5.0 in /usr/local/lib/python3.6/dist-packages (from pandas)
Requirement already satisfied: pyparsing!=2.0.4,!=2.1.2,!=2.1.6,>=2.0.1 in /usr/local/lib/python3.6/dist-packages (from matplotlib)
Requirement already satisfied: kiwisolver>=1.0.1 in /usr/local/lib/python3.6/dist-packages (from matplotlib)
Requirement already satisfied: cyclor>=0.10 in /usr/local/lib/python3.6/dist-packages (from matplotlib)
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.6/dist-packages (from python-dateutil)
Requirement already satisfied: setuptools in /usr/local/lib/python3.6/dist-packages (from kiwisolver)

```

```

In [0]: import tensorflow as tf
import tensorflow_hub as hub
import matplotlib.pyplot as plt

```

```
WARNING: Logging before flag parsing goes to stderr.
W0514 08:54:55.030100 140212173883264 __init__.py:56] Some hub symbols are not available because
Using TensorFlow backend.
```

```
WARNING:tensorflow:From /usr/local/lib/python3.6/dist-packages/tensorflow/python/ops/control_flow_ops.py:1146: tf.nn.nn_ops.nn_max_pool (from tensorflow.python.ops.nn_ops) is deprecated and will be removed in a future version.
Instructions for updating:
Colocations handled automatically by placer.
```

```
In [0]: embed_size = embed.get_output_info_dict()['default'].get_shape()[1].value
        embed_size
```

```
In [0]: df=pd.read_csv("labeled_data.csv")
```

```
/usr/local/lib/python3.6/dist-packages/pandas/core/indexing.py:543: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead
```

64



```
In [0]: df_train.head()
```

```
Out[0]:      label      text
0         1  !!! RT @mayasolovely: As a woman you shouldn't...
1         1  !!!!! RT @mleew17: boy dats cold...tyga dwn ba...
2         1  !!!!!!! RT @UrKindOfBrand Dawg!!!! RT @80sbaby...
3         1  !!!!!!!! RT @C_G_Anderson: @viva_based she lo...
4         1  !!!!!!!!!!!!! RT @ShenikaRoberts: The shit you...
```

```
In [0]: df_train.label = df_train.label.astype('category')
        category_counts = len(df_train.label.cat.categories)
        category_counts
```

```
/usr/local/lib/python3.6/dist-packages/pandas/core/generic.py:5096: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html
    self[name] = value
```

```
Out[0]: 2
```

```
In [0]: def UniversalEmbedding(x):
        return embed(tf.squeeze(tf.cast(x, tf.string)), signature="default", as_dict=True)
```

```
In [0]: input_text = layers.Input(shape=(1,), dtype=tf.string)
        embedding = layers.Lambda(UniversalEmbedding, output_shape=(embed_size,))(input_text)
        dense = layers.Dense(256, activation='relu')(embedding)
        pred = layers.Dense(category_counts, activation='softmax')(dense)
        model = Model(inputs=[input_text], outputs=pred)
        model.compile(loss='categorical_crossentropy', optimizer='adam', metrics=['accuracy'])
        model.summary()
```

```
INFO:tensorflow:Saver not created because there are no variables in the graph to restore
```

```
I0514 08:55:09.342926 140212173883264 saver.py:1483] Saver not created because there are no variables to save
```

Layer (type)	Output Shape	Param #
input_1 (InputLayer)	(None, 1)	0
lambda_1 (Lambda)	(None, 512)	0
dense_1 (Dense)	(None, 256)	131328

```
dense_2 (Dense)                (None, 2)                514
=====
Total params: 131,842
Trainable params: 131,842
Non-trainable params: 0
-----
```

```
In [0]: hate=df_train[df_train.label==0]
        offensive=df_train[df_train.label==1]
        hate=hate.sample(frac=1)
        offensive=offensive.sample(frac=1)

In [0]: new_hate=hate[:min(len(hate), len(offensive))]
        new_off=offensive[:min(len(hate), len(offensive))]
        new_hate = new_hate.append(new_off)
        df_train=new_hate

In [0]: train_text = df_train['text'].tolist()
        train_text = np.array(train_text, dtype=object)[: , np.newaxis]

        train_label = np.asarray(pd.get_dummies(df_train.label), dtype = np.int8)

In [0]: with tf.Session() as session:
        K.set_session(session)
        session.run(tf.global_variables_initializer())
        session.run(tf.tables_initializer())
        history = model.fit(train_text,
                            train_label,
                            validation_split=0.2,
                            epochs=15,
                            batch_size=32)
        model.save_weights('./model.h5')
```

```
WARNING:tensorflow:From /usr/local/lib/python3.6/dist-packages/tensorflow/python/ops/math_ops.py:
Instructions for updating:
Use tf.cast instead.
```

```
W0514 08:55:12.237011 140212173883264 deprecation.py:323] From /usr/local/lib/python3.6/dist-p
Instructions for updating:
Use tf.cast instead.
```

```
Train on 2288 samples, validate on 572 samples
Epoch 1/15
2288/2288 [=====] - 51s 22ms/step - loss: 0.4965 - acc: 0.7386 - val_
Epoch 2/15
2288/2288 [=====] - 48s 21ms/step - loss: 0.4104 - acc: 0.8142 - val_
```

```

Epoch 3/15
2288/2288 [=====] - 48s 21ms/step - loss: 0.3923 - acc: 0.8147 - val_
Epoch 4/15
2288/2288 [=====] - 48s 21ms/step - loss: 0.3782 - acc: 0.8274 - val_
Epoch 5/15
2288/2288 [=====] - 48s 21ms/step - loss: 0.3663 - acc: 0.8422 - val_
Epoch 6/15
2288/2288 [=====] - 48s 21ms/step - loss: 0.3533 - acc: 0.8440 - val_
Epoch 7/15
2288/2288 [=====] - 48s 21ms/step - loss: 0.3390 - acc: 0.8518 - val_
Epoch 8/15
2288/2288 [=====] - 48s 21ms/step - loss: 0.3218 - acc: 0.8632 - val_
Epoch 9/15
2288/2288 [=====] - 48s 21ms/step - loss: 0.3057 - acc: 0.8733 - val_
Epoch 10/15
2288/2288 [=====] - 48s 21ms/step - loss: 0.2920 - acc: 0.8785 - val_
Epoch 11/15
2288/2288 [=====] - 48s 21ms/step - loss: 0.2763 - acc: 0.8934 - val_
Epoch 12/15
2288/2288 [=====] - 48s 21ms/step - loss: 0.2607 - acc: 0.8990 - val_
Epoch 13/15
2288/2288 [=====] - 48s 21ms/step - loss: 0.2408 - acc: 0.9082 - val_
Epoch 14/15
2288/2288 [=====] - 47s 21ms/step - loss: 0.2228 - acc: 0.9187 - val_
Epoch 15/15
2288/2288 [=====] - 48s 21ms/step - loss: 0.2119 - acc: 0.9196 - val_

```

```

In [0]: # new_text = list(s.comments)
        # new_text = np.array(new_text, dtype=object)[: , np.newaxis]

        new_text=s
        new_text = np.array(new_text, dtype=object)[: , np.newaxis]
        with tf.Session() as session:
            K.set_session(session)
            session.run(tf.global_variables_initializer())
            session.run(tf.tables_initializer())
            model.load_weights('./model.h5')
            predicts = model.predict(new_text, batch_size=32)

In [0]: categories = df_train.label.cat.categories.tolist()
        predict_logits = predicts.argmax(axis=1)
        predict_labels = [categories[logit] for logit in predict_logits]
        predict_labels

```

```

Out[0]: [0,
         0,
         0,

```

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```
In [0]: hate=[]
        nonhate=[]
        for i in range(len(predicts)):
            if predict_labels[i]==0:
                hate.append(s[i])
            else:
                nonhate.append(s[i])
```

```
In [0]: print(len(hate))
        print(len(nonhate))
```

36

62

```
In [0]: import numpy as np
        import pandas as pd
        from os import path
        from PIL import Image
        !pip install wordcloud
        from wordcloud import WordCloud, STOPWORDS, ImageColorGenerator

        import matplotlib.pyplot as plt
        % matplotlib inline
```

Requirement already satisfied: wordcloud in /usr/local/lib/python3.6/dist-packages (1.5.0)

Requirement already satisfied: pillow in /usr/local/lib/python3.6/dist-packages (from wordcloud)

Requirement already satisfied: numpy>=1.6.1 in /usr/local/lib/python3.6/dist-packages (from wordcloud)

Requirement already satisfied: olefile in /usr/local/lib/python3.6/dist-packages (from pillow->wordcloud)

```
In [0]: wordcloud = WordCloud().generate(" ".join(hate))
```

```
# Display the generated image:
plt.imshow(wordcloud, interpolation='bilinear')
plt.axis("off")
plt.show()
```







Now I get it this is why I have been getting stupid recommendations  
 ThIs iS ThWaSh  
 BTS IDOL YES  
 Lets how irrelevant are these YouTubers;  
 Ahh thats hot. Thats hot.  
 Only came here for Sister Squad  
 So why are all the top comments at the bottom?  
 The like are reversed  
 I hate who made Rewind 2018 is so cringy!!!  
 16mil and counting dang  
 Seriously how the fck did over 2 million like this video... Australians??  
 science of melting lipsticks? Does that even make sense?  
 what about xxx  
 3:49 mark made it  
 I used to expect the rewind all year round. Now I'm afraid of being screwed over. The only good  
 If i controlled rewind i would want  
 Pewdiepie and brad 1  
 Most cringe ever  
 No wonder why Thanos wanted to wipe out the human race  
 when you try to ACT nice and great, things become cringe  
 Ahsiaappp  
 We see this Video's For Unlike  
 Hola  
 K pop, then where is BTS?  
 Wtf  
 Why Am I watching thissss...?  
 2019 vai ser o melhor ano  
 Sonic is coming  
 Who is here after the sonic trailer.  
 TENIAN QUE HABER PUESTO A LUCHITO FUMANDO UN PORRO  
 I SAW COLLINS AND WENGIE AND MARELL TWINS AND FUNNEH WOO HOO  
 People are just coming back to watch the dislikes, thats why they are getting views  
 Ahhh-will smith 2018  
 Wtf cada vez khe veo esto me da ganas de cortarme la bola izquierda v:  
 no one:  
 youtube : let's add idol by bts in our rewind even though we deleted views from their music vi  
 oh thats hop  
 3:25 to 3:27 the only good part  
 En donde estn los dems YouTubers que hacen de YouTube la plataforma que todo el mundo ama? En c  
 Aclaro esto solo es un COMENTARIO!!!  
 Jesus 16 million dislikes  
 Porque el Rewind hispano es mejor que esta cosa?  
 Look at Jaiden animations and theodds1out @jaidenanimations,@theodds1out  
 YouTube has the most disliked video on YouTube.  
 Hey YouTube rewind, you better watch out, theres a new video in town and its called Sonic the B  
 ;o i dont see sssniperwolf >;c  
 Who else was waiting for Lazarbeam to throw an axe through a door screaming "FBI OPEN UP!!!"  
 Why do people think this is bad its great

\*sees that we got this to be the most disliked YouTube video\*  
 I am so proud of this community  
 5:26 \*DELETE THE VIDEO\*  
 this was trash but you gotta admit the clay hing was pretty cool  
 the only good part is with theodd1sout and jaiden  
 The only people I know is the animators  
 I would only like the video if they put SpaceXs Falcon Heavy.

Jk.

She said Marshmello needs to be in this video when it looks like she's eating a marshmallow at  
 Anyone tryna find the #1 liked comment?  
 4:09 not to be mean but I'm actually scared  
 amazing lets give everyone what they wnt right  
 I don't even understand why this video is so disliked  
 es una verguensa como bailan i dol de bts osea no esta a su altura si los van a ofender mjr n  
 I actually really like this YouTube rewind  
 Id love to be part of rewind too  
 Theres no pew vs t-sires  
 And more collins key plz  
 Let me do it next year

### 3.1 Testing on a more polar video

We scrape comments from the "Full Committee Hearing on H.R. 5, the "Equality Act"" [here](#)

(The comment scraping code can be found here: <https://colab.research.google.com/drive/1r3m27aI9silULn8>)  
 ) Let's see if our model can classify them in a better way

```
In [0]: 12=['I dont know how anybody could question these witnesses with a straight face ',
        'Why is it that "every so called group" (which means people who are different than the
        'Nadler looks like a pedophile',
        'Just say no',
        "This means that through the Equality act men could walk into women's lockers room and
        "all you have to do is see how people are already abusing the bill in Canada. You are
        "WHY IS THE STATE IGNORING REAL WOMENS VOICE FOR A MARGIN OF PEOPLE??? why do they th
        'A black woman head of IBMs Diversity program. Oh, the irony is so amazing, consider
        '2:20:00 \nWomen dont make less than men.',
        'The Bible is clearly against LGBT. This minister is misrepresenting his title. Even
        '2 against \n6 in favor\nYea, thats fair',
        'Transglenders have zero compassion for the majority and now their sell-out and useful
        "I'm glad that people of standards are here to defend/oppose the bill. With Facts! I
        "Winter is coming, food crops lost in record numbers worldwide. Grand Solar Minimum me
        "So then, any1 who doesn't want to be gay or like the gay lifestyle. It will be force
        'all I want is pedophilia to be accepted we need to lower the age of consent 18 is way
        'Mr. Nadler is not only incompetent but is also divisive. \nHow do we get rid of this
```

"Mr. Lieu don't seem too smart...",  
 'Please do not add African Americans are black Americans to this bill to make it sound  
 'I do not vote for Democrats and I am an African American woman who is a descendant of  
 "Comments show the American people's true thoughts on this bill. If it passes it will  
 "Boy=Boy \nGirl=Girl\nLet's not allow Congress to change science, Gender is pre-determined  
 "Just as there's nothing wrong with discriminating by weight class in sports to shift  
 "So let lbgtq rights weigh more the everyone else's rights how is trampling on my rights  
 "Every woman's sport that a man has gotten into he has not only won but has out done and  
 "Why was there only two against this bill? Why isn't both side equally represented?",  
 'fuck you',  
 'Kudos for anyone standing up to the gender identity cult.',  
 '1A ....Stand against this Bill...SCOTUS',  
 'THIS IS SICK! ',  
 "In response to the claim that 'gender identity' will be abused by bad actors, the truth is  
 'This bill will definitely fail the senate! You can thank the Indian woman on the end of  
 'The emperor is nude. Fuck your delusion.',  
 'Bunch of POS anti-White commies making anti-White laws, day after day, led by commies  
 'Jews dont belong in Congress. They belong in Israel. Let them destroy their own nation  
 "I can't believe I'm on the side of a crazy feminist",  
 "I am a working class lesbian in a state that does not have antidiscrimination policies  
 "Laws based on fear and feelings of a very small minority, that can damage social consens  
 "God bless all people who support gender identity, tears come from my eyes because I am  
 'How did Nadler get to be the chairman? This is almost a kangaroo court!',  
 'You know, these dudes always talk about how it is only how they just "want to pee."  
 'So, basically, these individuals wish to outlaw the Christian faith and its expressions  
 "Time to put all the freaks back in the closet, for the good of what's left of our society  
 'To all whom seem to be on the horror band wagon, i am sorry and i mean this with all my  
 'Another attempt by the Dems to undermine the free exercise of religion. This is unacceptable  
 'This bill has many negative consequences and will be taken advantage of by disgusting  
 'Thank you Jukia Beck 59:00',  
 'Wow, homophobic people in this comment section are really stupid.\nYou use women to justify  
 'Cicilline is a poofster? No wonder he is such a twat.',  
 'PREACH MS. DEMINGS!!! (Starts at 3:00:00)',  
 'One good thing if this passes. Women College and Pro Basketball would become watchable  
 '1 in 4 women will be sexually assaulted in their lifetime and making it legal for trans  
 'Democrats are out of control!',  
 '1:56:50 someone get Kennan Thompson to impersonate this guy! LOL!',  
 '1:11:40 Fern to the Dale.',  
 '1:10:48 maybe a Transgender group? Or are 3 sports teams too much? Lol. \n\nShould be  
 '1:01:01 I JUST realized she is reading this in a condescending way! \n\nWow. Now it's  
 "37:05 Multiple Divides and conquers. \n\nPutting people who like being the gender they  
 'Julia Beck, world hero!',  
 'Get rid of the nonexistent "gender identity" language because to include it in means  
 'This is a disgrace, females do not want to go back to a world without sex-based exemptions  
 "I think the dumpster fire that happened this morning in the comments is a perfect illustration  
 'Men and women are not the same, good grief! Men are physically stronger than women. That's  
 "mr. buck i am ashamed as you as a colorado native, if an enemy would save my life do  
 "wait a minute, um, i for once agree with the TERF but, i'd like to expand on the sentiment"

"i left this on while brushing me teeth, and if you lie to your doctor, its you not the doctor  
 "before i go to bed, i want say, maybe if we educated boy about the female body, and we can  
 'yay to the equality act!',  
 "I want to add one point, to those terfs that act me with there comments, guess what a  
 "I don't know were these people whom hate transgender woman such as myself hate us, and  
 "You know, Congress asking Terfs to testify on trans rights is like asking Stefan Molyneux  
 'Starts 24:15',  
 'An actual war is coming. I will not capitulate. I will not comply with anti-biological  
 'How is IBM testifying and WHY?',  
 "It's too bad Sunil doesn't know the definition of woman/female. She is an embarrassment  
 'Excellent statement by Mr. Collins. Thank you for standing up for women and girls Mr.  
 'A great step in the right direction!',  
 'SUPPORT THE EQUALITY ACT! WHICH SIDE OF CIVIL RIGHT HISTORY WILL YOU BE ON? History s  
 'I guess they dont follow the news on how trans women are beating many women in High-  
 'Call your Representative to support the Equality Act!',  
 "Define gender. Define sex. One is testable, material and immutable. One is feelings a  
 'Theres nothing equal in this bill. No equality.',  
 'It\'s crazy they kept using the word "protection"...everyone is protected under U.S.  
 'It\'s sad that Dumbocrats brought MLK and Stonewall into the conversation.\xa0 What m  
 'So he respects murders, rapists, adulterers, sexual immorality, those that deny God a  
 'democrats support anything for a vote...now they embrace transgenders with an open m  
 "The Equality Act is a deadly piece of legislation that will set back women's rights p  
 "Nadlers fat azz didn't want full exposure when Ken Starr was the Special Counsel HYP  
 'There is no way to determine if someone is actually transgender, has an underlying id  
 'Transgender activists are harming women and children. \n<https://www.youtube.com/watch?v=...>

```
In [0]: # new_text = list(s.comments)
# new_text = np.array(new_text, dtype=object)[: , np.newaxis]
new_text=l2
new_text = np.array(new_text, dtype=object)[: , np.newaxis]
with tf.Session() as session:
    K.set_session(session)
    session.run(tf.global_variables_initializer())
    session.run(tf.tables_initializer())
    model.load_weights('./model.h5')
    predicts = model.predict(new_text, batch_size=32)
```

Exception ignored in: <bound method BaseSession.\_Callable.\_\_del\_\_ of <tensorflow.python.client.Session>  
 Traceback (most recent call last):

```
File "/usr/local/lib/python3.6/dist-packages/tensorflow/python/client/session.py", line 1455, in _close
    self._session._session, self._handle, status)
File "/usr/local/lib/python3.6/dist-packages/tensorflow/python/framework/errors_impl.py", line 145, in _wrap_errors_impl
    c_api.TF_GetCode(self.status.status))
tensorflow.python.framework.errors_impl.CancelledError: Session has been closed.
```

```
In [0]: categories = df_train.label.cat.categories.tolist()
predict_logits = predicts.argmax(axis=1)
```



Sometimes discrimination is necessary to keep order in the world, and the majority should not

You want equality and things your way transnians and LGBs? Go move to San Francisco or another

(Btw, did anyone else notice how smug some of these HR 5 supporters came off, and how vague the  
So then, any1 who doesn't want to be gay or like the gay lifestyle. It will be forced on you and  
all I want is pedophilia to be accepted we need to lower the age of consent 18 is way too high  
Mr. Nadler is not only incompetent but is also divisive.

How do we get rid of this guy?

Mr. Lieu don't seem too smart...

Please do not add African Americans are black Americans to this bill to make it sound better w  
I do not vote for Democrats and I am an African American woman who is a descendant of slavery.  
Just as there's nothing wrong with discriminating by weight class in sports to shift the emphasis  
So let lgbtq rights weigh more the everyone else's rights how is trampling on my rights for the  
fuck you

Kudos for anyone standing up to the gender identity cult.

In response to the claim that 'gender identity' will be abused by bad actors, the transactivists

This bill will definitely fail the senate! You can thank the Indian woman on the end!

Bunch of POS anti-White commies making anti-White laws, day after day, led by commies for commies

Jews dont belong in Congress. They belong in Israel. Let them destroy their own nation for a change

I am a working class lesbian in a state that does not have antidiscrimination policies and I do

Laws based on fear and feelings of a very small minority, that can damage social construct, and

God bless all people who support gender identity, tears come from my eyes because I am a warrior

You know, these dudes always talk about how it is only how they just "want to pee." Well, if

So, basically, these individuals wish to outlaw the Christian faith and its expressions.

Time to put all the freaks back in the closet, for the good of what's left of our society.

To all whom seem to be on the horror band wagon, i am sorry and i mean this with all my heart

as for the sports, yes, maybe if someone comes right out and says i am, yes there should be a

Another attempt by the Dems to undermine the free exercise of religion. This is unconstitutional

This bill has many negative consequences and will be taken advantage of by disgusting people.

Thank you Jukia Beck 59:00

Wow, homophobic people in this comment section are really stupid.

You use women to justify your homophobia. Just say it clear, you oppose the Equality Act because

That's OK, but just say it clear. Don't use stupid arguments like "this act hurts women's rights"

BTW, laws protecting LGBT people from discrimination already exist in at least 20 states. And

Cicilline is a poofster? No wonder he is such a twat.

1 in 4 women will be sexually assaulted in their lifetime and making it legal for transgender

Furthermore it's incredible that the last argument against a bill that fights discrimination is

35:30 I can't believe they'd call it "men acting like a stereotypical woman" it's about sexual

Democrats are out of control!

1:10:48 maybe a Transgender group? Or are 3 sports teams too much? Lol.

Should be looked into though.

Should be...revised.

37:05 Multiple Divides and conquers.

Putting people who like being the gender they were born as VS people who don't wanna be.  
Get rid of the nonexistent "gender identity" language because to include it in means a wholesale  
This is a disgrace, females do not want to go back to a world without sex-based exemptions in law  
I think the dumpster fire that happened this morning in the comments is a perfect illustration  
mr. buck i am ashamed as you as a colorado native, if an enemy would save my life do there job  
wait a minute, um, i for once agree with the TERF but, i'd like to expand on the sentence you c  
i left this on while brushing me teeth, and if you lie to your doctor, its you not the doctor,

And Mr. Gohmert, sorry i am not a man, and when you point out that well most cannot, then those  
before i go to bed, i want say, maybe if we educated boy about the female body, and what the f  
yay to the equality act!

I want to add one point, to those terfs that act me with there comments, guess what am i depressed  
I don't know were these people whom hate transgender woman such as myself hate us, and i have l

I'm sorry i've never hurt another woman, and yet i've been harassed by some but not all woman,

oh, i'm tired i've worked all day, and want to write more, but am too tired, sorry but this is

lot of love, even to those i don't agree with hopefully one day we really will respect one another

annae

You know, Congress asking Terfs to testify on trans rights is like asking Stefan Molyneux, Rick Warren  
An actual war is coming. I will not capitulate. I will not comply with anti-biological dictates

Come get me.

How is IBM testifying and WHY?

It's too bad Sunil doesn't know the definition of woman/female. She is an embarrassment and a  
SUPPORT THE EQUALITY ACT! WHICH SIDE OF CIVIL RIGHT HISTORY WILL YOU BE ON? History shows us t  
Call your Representative to support the Equality Act!

Theres nothing equal in this bill. No equality.

It's crazy they kept using the word "protection"...everyone is protected under U.S. law period  
It's sad that Dumbocrats brought MLK and Stonewall into the conversation. What many don't und  
So he respects murders, rapists, adulterers, sexual immorality, those that deny God and believe  
demokrats support anything for a vote...now they embrace transgenders with an open mouthed kiss  
Nadlers fat azz didn't want full exposure when Ken Starr was the Special Counsel HYPOCRITES and  
There is no way to determine if someone is actually transgender, has an underlying issue causing  
Transgender activists are harming women and children.

<https://www.youtube.com/watch?v=UHElmyBuh0E&t=6s>

### 3.1.2 Nonhate

```
In [0]: wordcloud = WordCloud().generate(" ".join(nonhate))
```

```
# Display the generated image:
plt.imshow(wordcloud, interpolation='bilinear')
plt.axis("off")
plt.show()
for elem in nonhate:
    print(elem)
```



I dont know how anybody could question these witnesses with a straight face

Just say no

WHY IS THE STATE IGNORING REAL WOMENS VOICE FOR A MARGIN OF PEOPLE??? why do they think people

2:20:00

Women dont make less than men.

2 against

6 in favor

Yea, thats fair

I'm glad that people of standards are here to defend/oppose the bill. With Facts! I believe ma

Winter is coming, food crops lost in record numbers worldwide. Grand Solar Minimum means no sun

Comments show the American people's true thoughts on this bill. If it passes it will be used f

Boy=Boy

Girl=Gi:

Let's not

(c) The following information shall be provided:

Please, don't pass this bill

Every womans sport that a man has gotten into he has not only won but has out done any records

Why was there only two against this bill? Why isn't both side equally represented?

1A ...Stand against this Bill...SCOTUS

THIS IS SICK!

The emperor is nude. Fuck your delusion.

I can't believe I'm on the side of a crazy feminist



How did Nadler get to be the chairman? This is almost a kangaroo court!  
 PREACH MS. DEMINGS!!! (Starts at 3:00:00)  
 One good thing if this passes. Women College and Pro Basketball would become watchable !  
 1:56:50 someone get Kennan Thompson to impersonate this guy! LOL!  
 1:11:40 Fern to the Dale.  
 1:01:01 I JUST realized she is reading this in a condescending way!

Wow. Now it all is understood.  
 Julia Beck, world hero!  
 Men and women are not the same, good grief! Men are physically stronger than women. Their bone  
 Starts 24:15  
 Excellent statement by Mr. Collins. Thank you for standing up for women and girls Mr. Collins  
 A great step in the right direction!  
 I guess they dont follow the news on how trans women are beating many women in High-school sports  
 Define gender. Define sex. One is testable, material and immutable. One is feelings and stereotypes  
 The Equality Act is a deadly piece of legislation that will set back women's rights permanently.

### 3.2 Conclusion

Upon analysing these results, we see that more polar ones do get classified as hate. We also notice that the model classifies neutral ones more correctly than it does hate. Hate still has some false positives, which is okay as we mentioned in our original motivation.

We conclude while the trained on twitter datamight not generalize perfectly, it does well enough. The misclassifications occur primarily because the underlying data for both the tasks is different.

One might question the volatility of the model since it worked well enough on the hearings comments but did not do well on the white supremacist data. For this, we go back to our exploratory data analysis notebooks, the analysis showed that most of the tweets we had were derogatory towards women, the content of the youtube comments was similar and perhaps that's why the model would've performed reasonably better on the gender comments.

Hence, to be able to do more accurate hate speech classification in the general environment, perhaps it would be better to train on datasets focused on combinations of certain types of hate speech and then use that to predict in a general setting such as youtube or twitter.

Our original plans included performing a hate speech based analysis of comment sections of various youtubers, however, we now realize that perhaps in order to do that, it would be a much better idea to look at kinds of hate speech and then use those separate datasets, either as separate models or as one common model.