Dream.Speech 8/3/2020

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In [20]:
          1 # ANALYZING Dr. Martin Luther King Jr.'s I HAVE A DREAM SPEECH - Raw Sentimental Analysis
          2 # By Symon Kimitei
          3 # Aspiring Data Scientists
          4 # Working only with lists and Dictionaries in sentimental analysis
          6 # Import all the library dependencies
          7 import pandas as pd
          8 import numpy as np
          9 import matplotlib. pyplot as plt
          10 # Import the data
         11 from wordcloud import WordCloud, STOPWORDS
         12 from wordcloud import WordCloud, ImageColorGenerator
          13 from collections import Counter
         14 from PIL import Image
         15 from io import open
In [45]:
          1 # Import the I have a dream speech as a textfile. This speech was delivered by Dr. Martin Luther King Jr. in
          2 dream = open("/Users/skimitei/Desktop/anaconda/dream.txt","r")
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In [46]:
           1 # Create an empty dictionary to store the keys(words) and Count of the frequency of unique words spoken by D
            2 counts = dict()
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['I', 'am', 'happy', 'to', 'join', 'with', 'you', 'today', 'in', 'what', 'will', 'go', 'down', 'in', 'histor y', 'as', 'the', 'greatest', 'demonstration', 'for', 'freedom', 'in', 'the', 'history', 'of', 'our', 'natio n.', 'Five', 'score', 'years', 'ago,', 'a', 'great', 'American,', 'in', 'whose', 'symbolic', 'shadow', 'we', 'stand', 'today,', 'signed', 'the', 'Emancipation', 'Proclamation.', 'This', 'momentous', 'decree', 'came', 'as', 'a', 'great', 'beacon', 'light', 'of', 'hope', 'to', 'millions', 'of', 'Negro', 'slaves', 'who', 'ha d', 'been', 'seared', 'in', 'the', 'flames', 'of', 'withering', 'injustice.', 'It', 'came', 'as', 'a', 'joyo us', 'daybreak', 'to', 'end', 'the', 'long', 'night', 'of', 'their', 'captivity.', 'But', 'one', 'hundred', 'years', 'later,', 'the', 'Negro', 'still', 'is', 'not', 'free.', 'One', 'hundred', 'years', 'later,', 'th e', 'life', 'of', 'the', 'Negro', 'is', 'still', 'sadly', 'crippled', 'by', 'the', 'manacles', 'of', 'segreg ation', 'and', 'the', 'chains', 'of', 'discrimination.', 'One', 'hundred', 'years', 'later,', 'the', 'Negr o', 'lives', 'on', 'a', 'lonely', 'island', 'of', 'poverty', 'in', 'the', 'midst', 'of', 'a', 'vast', 'ocea n', 'of', 'material', 'prosperity.', 'One', 'hundred', 'years', 'later,', 'the', 'Negro', 'is', 'still', 'la nguished', 'in', 'the', 'corners', 'of', 'American', 'society', 'and', 'finds', 'himself', 'an', 'exile', 'i n', 'his', 'own', 'land.', 'And', 'so', "we've", 'come', 'here', 'today', 'to', 'dramatize', 'a', 'shamefu l', 'condition.', 'In', 'a', 'sense', "we've", 'come', 'to', 'our', "nation's", 'capital', 'to', 'cash', 'a', 'check.', 'When', 'the', 'architects', 'of', 'our', 'republic', 'wrote', 'the', 'magnificent', 'words', 'of', 'the', 'Constitution', 'and', 'the', 'Declaration', 'of', 'Independence,', 'they', 'were', 'signing', 'a', 'promissory', 'note', 'to', 'which', 'every', 'American', 'was', 'to', 'fall', 'heir.', 'This', 'note', 'was', 'a', 'promise', 'that', 'all', 'men,', 'yes,', 'black', 'men', 'as', 'well', 'as', 'white', 'men,',

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In [54]:
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#Count and save the frequency of words under each key(word)
for word in words:
    counts[word]=counts.get(word,0)+1 # Count the frequency of unique words
#strip unicode string from the list so that the word list do not begin with u

print(counts)
```

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ghtening': 2, 'Carolina,': 2, 'mountain': 4, 'able': 16, 'note': 4, 'also': 2, '"interposition"': 2, 'take': 2, 'which': 10, 'tranquility': 2, 'jail': 4, 'day.': 2, 'With': 6, "Negro's": 2, 'shall': 10, 'who': 8, 'architect s': 2, 'nothing': 2, 'The': 4, 'hatred.': 2, 'captivity.': 2, 'forever': 2, 'prosperity.': 2, 'force.': 2, 'Som e': 2, 'face': 2, 'slaves': 4, 'sing.': 2, 'urgency': 4, 'segregation': 4, 'discontent': 2, 'democracy.': 2, 'o ne.': 2, 'pride,': 2, 'bright': 2, 'dream.': 4, 'threshold': 2, 'rough': 2, 'We': 20, 'with.': 2, 'northern': 2, 'justice': 6, 'true': 2, 'dramatize': 2, 'storms': 2, 'Free': 4, 'only': 2, 'difficulties': 2, 'black': 8, 'York': 2, 'hope': 4, 'righteousness': 2, 'his': 6, 'usual.': 2, "'tis": 2, 'conduct': 2, 'cannot': 12, 'legiti mate': 2, 'words': 6, 'obligation,': 2, 'stating:': 2, 'ghetto': 2, 'seared': 2, 'glory': 2, 'Whites': 2, 'free dom.': 2, 'men,': 6, 'bad': 2, 'though': 2, 'friends.': 2, 'meaning:': 2, 'where': 6, 'steam': 2, 'wrote': 2, 'brothers.': 2, 'brothers,': 2, 'city,': 2, 'signs': 2, 'see': 2, 'straight;': 2, 'are': 16, 'snow-capped': 2, 'Independence,': 2, 'end,': 2, 'molehill': 2, 'destiny': 2, 'crooked': 2, 'its': 6, 'state': 6, 'score': 2, 'in justice': 2, 'neither': 2, 'knowing': 4, 'Protestants': 2, 'we': 36, 'never': 6, 'bound': 2, 'inextricably': 2, 'come': 20, 'check.': 2, 'condition.': 2, 'check,': 4, 'always': 2, 'many': 2, 'drug': 2, 'ring.': 2, 'Alabam a,': 4, 'let': 8, 'finds': 2, 'ring!': 2, 'sixty-three': 2, 'color': 4, 'guaranteed': 2, 'Mountain': 4, 'commun ity': 2, 'walk': 2, 'injustice.': 2, '"and': 2, 'injustice,': 2, 'together,': 10, 'majestic': 2, 'table': 2, 'L ookout': 2, 'stripped': 2, 'overlook': 2, 'But': 8, 'basic': 2, 'meeting': 2, 'ghettos': 2, 'tribulations.': 2, 'life': 2, 'robbed': 2, 'evidenced': 2, 'lift': 2, 'emerges.': 2, 'demand': 2, 'former': 4, 'those': 4, 'And': 24, "negro's": 2, 'solid': 2, 'cash': 4, 'governor': 2, 'will': 54, 'country': 2, 'situation': 2, 'vaults': 2, 'unearned': 2, 'faith,': 6, 'devotees': 2, 'is': 46, 'character.': 2, 'it': 4, 'awakening': 2, 'in': 40, 'exil e': 2, 'You': 2, 'if': 4, 'stream."': 2, 'demonstration': 2, 'make': 6, 'ring,': 2, 'slave': 2, 'I': 30, 'upo n': 2, 'fierce': 2, 'opportunity': 2, 'changed.': 2, 'narrow': 2, 'off': 4, 'people,': 4, 'well': 2, 'It': 8, 'ocean': 2, 'heir.': 2, 'greatest': 2, 'gain': 2, 'In': 4, 'the': 202, 'left': 2, 'summer': 2, 'returns': 2, 'd esolate': 2, 'Thank': 2, 'flesh': 2, 'rest': 2, 'victim': 2, 'speed': 2, 'liberty,': 2, 'blow': 2, 'hills': 2, 'cup': 2, "we've": 6, 'had': 2, 'realize': 4, 'transformed': 2, 'nor': 2, 'sweet': 2, 'engulfed': 2, 'Five': 2, 'has': 10, 'luxury': 2, 'real': 2, 'ago,': 2, 'thee,': 2, 'march': 2, 'rights,': 2, 'rights.': 2, 'racists,': 2, 'dark': 2, 'suffering': 2, 'quest': 4, 'moment.': 2, 'shadow': 2, 'brutality.': 4, 'dignity': 4, 'like': 4, 'justice.': 6, 'wrongful': 2, 'remind': 2, 'distrust': 2, 'continue': 2, 'night': 2, 'become': 2, 'security': 2, 'together."': 2, 'justice:': 2, 'Again': 2, 'Now.': 2, 'right': 2, 'old': 2, 'people': 2, 'fathers': 2, 'vil lage': 2, 'magnificent': 2, 'back': 16, 'lips': 2, 'mighty': 4, 'New': 6, 'racial': 4, 'for': 16, 'Hampshire.': 2, 'American,': 2, 'creative': 4, 'asking': 2, 'Let': 18, 'brotherhood.': 6, 'chains': 2, 'somehow': 2, 'be': 6 6, 'curvaceous': 2, 'unmindful': 2, 'business': 2, 'Mississippi.': 2, 'by': 16, 'on': 10, 'stone': 2, 'discord s': 2, 'of': 198, 'Only."**': 2, 'citizens': 2, 'despair': 2, 'stand': 6, 'insufficient': 2, 'or': 2, 'own': 2, 'hope.': 2, 'presence': 2, 'civil': 2, 'into': 8, 'concerned.': 2, 'down': 8, 'promise': 2, 'been': 4, 'last!': 6, 'rolls': 2, 'hew': 2, 'her': 2, 'satisfied,': 2, 'there': 10, 'transform': 2, 'long': 12, '"We': 2, 'plac e,': 2, 'slopes': 2, 'valley': 6, 'was': 4, 'happy': 2, 'mountains': 2, 'himself': 2, 'funds': 2, 'so,': 2, 'bu t': 4, 'slums': 2, 'boys': 4, 'heat': 4, 'Liberty': 2, 'children.': 2, 'Louisiana,': 2, 'children,': 2, 'with': 24, 'land.': 2, 'he': 2, 'made': 6, 'places': 4, 'oppression,': 2, 'up': 8, 'signed': 2, 'promises': 2, 'citize nship': 2, 'invigorating': 2, 'cities.': 2, 'am': 4, 'an': 8, 'as': 40, 'at': 8, 'beginning.': 2, 'check': 4, 'physical': 4, 'Colorado.': 2, 'us': 8, 'no': 2, 'trials': 2, 'when': 10, 'reality': 2, 'republic': 2, 'you': 1 4, 'Nineteen': 2, 'suffering.': 2, 'gaining': 2, 'bodies,': 2, 'again,': 2, 'walk,': 2, 'wallow': 2, 'meaning': 2, 'fresh': 2, 'persecution': 2, '"insufficient': 2, 'South': 4, 'rightful': 2, 'land': 4, 'lead': 2, 'creed:': 2, 'together': 2, 'back.': 2, 'came': 4, 'time': 10, 'lives': 2, 'alone.': 2, 'cities,': 2, 'having': 2, 'unspe akable': 2}

In [62]:

- 1 # Subset the dreamBigWords data frame and save only words that had the greatest frequency in the speech
- 2 dreamBigWords = dreamBigWords[dreamBigWords.Count>= 20]
- 3 dreamBigWords

Out[62]:

Count	
Word	
the	202
of	198
to	118
and	82
а	74
be	66
will	54
that	46
is	46
in	40
as	40
freedom	38
we	36
our	34
have	34
from	32
1	30
this	30
not	26
Negro	26
And	24

with

24

	Count			
Word				
every	20			
come	20			
day	20			
We	20			

In [63]:

- 1 # Sort the Count column in descending order
- 2 dreamBigWords = dreamBigWords.sort_values('Count',ascending=False)
- 3 dreamBigWords

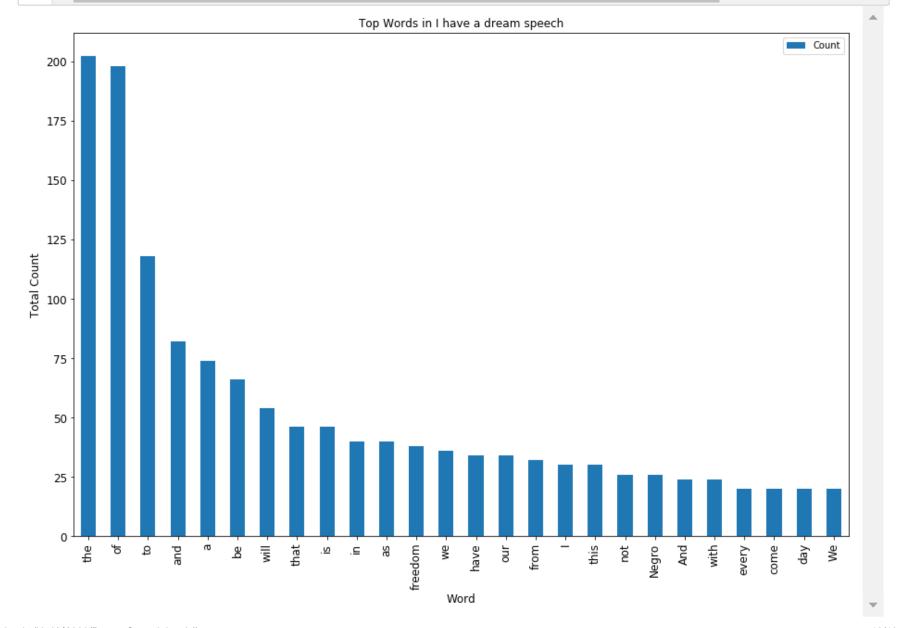
Out[63]:

	Count
Word	
the	202
of	198
to	118
and	82
а	74
be	66
will	54
that	46
is	46
in	40
as	40
freedom	38
we	36
have	34
our	34
from	32
I	30
this	30
not	26
Negro	26
And	24

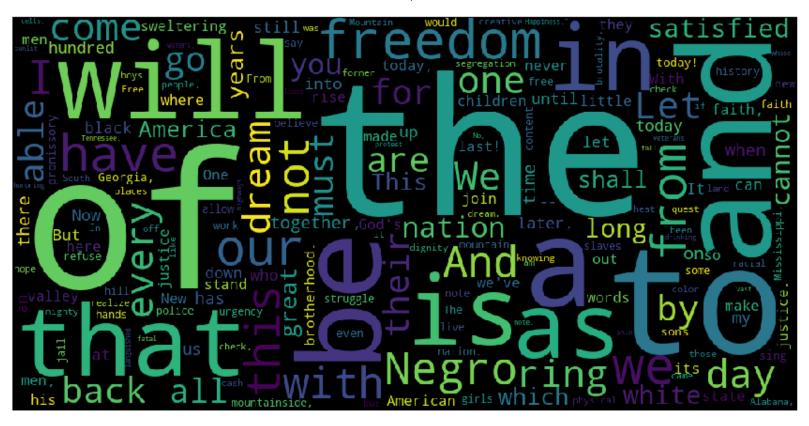
with

24

	Count			
Word				
every	20			
come	20			
day	20			
We	20			



```
In [68]:
           1 # Create a Word Cloud of the I have a dream speech
           3 dream = open("/Users/skimitei/Desktop/anaconda/dream.txt","r")
           4 counts = dict() # Create an empty dictionary
           6 words = dream.read().split() # Split the text into a list
           7 words=map(str, words) #strip unicode string from the list so that the word list do not begin with u
           8 #print(words)
          10 #print('words:',words) # Print the list of words
          11
          12 #convert it to dictionary with values and its occurences
          13 word could dict=Counter(words)
          14
          15 # print(word could dict) Print the word count dictionary
          16 wordcloud = WordCloud(width = 1000, height = 500).generate from frequencies(word could dict)
          17 plt.figure(figsize=(15,10))
          18 plt.imshow(wordcloud)
          19 plt.axis("off")
          20 plt.show()
          21 plt.savefig('MLKJr.png', bbox inches='tight')
```



In []: 1