

In [1]:

```
import nltk
from nltk.corpus import brown
```

In [3]:

```
nltk.download
```

Out[3]:

```
<bound method Downloader.download of <nltk.downloader.Downloader object at 0x0000027410256668>>
```

In []:

In [4]:

```
nltk.download
```

Out[4]:

```
<bound method Downloader.download of <nltk.downloader.Downloader object at 0x0000027410256668>>
```

In [5]:

```
from nltk.corpus import inaugural
```

In [18]:

```
inaugural.words(fileids = '1961-Kennedy.txt')
```

Out[18]:

```
['Vice', 'President', 'Johnson', ',', 'Mr', '.', ...]
```

In [17]:

```
nltk.download()
```

```
showing info https://raw.githubusercontent.com/nltk/nltk_data/gh-pages/index.xml
```

Out[17]:

```
True
```

In [20]:

```
fp = open('1961-Kennedy.txt', 'r')
```

```
-----  
-  
FileNotFoundError                                Traceback (most recent call las  
t)
```

```
<ipython-input-20-2116bc0c1f25> in <module>()  
----> 1 fp = open('1961-Kennedy.txt', 'r')
```

```
FileNotFoundError: [Errno 2] No such file or directory: '1961-Kennedy.txt'
```

In [22]:

```
inaugural.words(fileids = '1961-Kennedy.txt')
```

Out[22]:

```
['Vice', 'President', 'Johnson', ',', 'Mr', '.', ...]
```

In [25]:

```
from nltk.corpus import brown
```

In [30]:

```
print(brown.words())
```

```
['The', 'Fulton', 'County', 'Grand', 'Jury', 'said', ...]
```

In [29]:

```
nltk.download('brown')
```

```
[nltk_data] Downloading package brown to  
[nltk_data]   C:\Users\hp\AppData\Roaming\nltk_data...  
[nltk_data]   Package brown is already up-to-date!
```

Out[29]:

```
True
```

In [32]:

```
from nltk.corpus import inaugural
```

In [34]:

```
print(inaugural.words())
```

```
['Fellow', '-', 'Citizens', 'of', 'the', 'Senate', ...]
```

In [36]:

```
nltk.corpus.inaugural.fileids()
```

Out[36]:

```
['1789-Washington.txt',  
'1793-Washington.txt',  
'1797-Adams.txt',  
'1801-Jefferson.txt',  
'1805-Jefferson.txt',  
'1809-Madison.txt',  
'1813-Madison.txt',  
'1817-Monroe.txt',  
'1821-Monroe.txt',  
'1825-Adams.txt',  
'1829-Jackson.txt',  
'1833-Jackson.txt',  
'1837-VanBuren.txt',  
'1841-Harrison.txt',  
'1845-Polk.txt',  
'1849-Taylor.txt',  
'1853-Pierce.txt',  
'1857-Buchanan.txt',  
'1861-Lincoln.txt',  
'1865-Lincoln.txt',  
'1869-Grant.txt',  
'1873-Grant.txt',  
'1877-Hayes.txt',  
'1881-Garfield.txt',  
'1885-Cleveland.txt',  
'1889-Harrison.txt',  
'1893-Cleveland.txt',  
'1897-McKinley.txt',  
'1901-McKinley.txt',  
'1905-Roosevelt.txt',  
'1909-Taft.txt',  
'1913-Wilson.txt',  
'1917-Wilson.txt',  
'1921-Harding.txt',  
'1925-Coolidge.txt',  
'1929-Hoover.txt',  
'1933-Roosevelt.txt',  
'1937-Roosevelt.txt',  
'1941-Roosevelt.txt',  
'1945-Roosevelt.txt',  
'1949-Truman.txt',  
'1953-Eisenhower.txt',  
'1957-Eisenhower.txt',  
'1961-Kennedy.txt',  
'1965-Johnson.txt',  
'1969-Nixon.txt',  
'1973-Nixon.txt',  
'1977-Carter.txt',  
'1981-Reagan.txt',  
'1985-Reagan.txt',  
'1989-Bush.txt',  
'1993-Clinton.txt',  
'1997-Clinton.txt',  
'2001-Bush.txt',  
'2005-Bush.txt',  
'2009-Obama.txt']
```

In [41]:

```
string = inaugural.raw('2009-Obama.txt')
```

In [87]:

```
words = string.split()
for i in range(len(words)):
    words[i] = words[i].lower()
```

In [88]:

```
print(words)
```

['my', 'fellow', 'citizens:', 'i', 'stand', 'here', 'today', 'humbled', 'b
y', 'the', 'task', 'before', 'us,', 'grateful', 'for', 'the', 'trust', 'yo
u', 'have', 'bestowed,', 'mindful', 'of', 'the', 'sacrifices', 'borne', 'b
y', 'our', 'ancestors.', 'i', 'thank', 'president', 'bush', 'for', 'his',
'service', 'to', 'our', 'nation,', 'as', 'well', 'as', 'the', 'generosit
y', 'and', 'cooperation', 'he', 'has', 'shown', 'throughout', 'this', 'tra
nsition.', 'forty-four', 'americans', 'have', 'now', 'taken', 'the', 'pres
idential', 'oath.', 'the', 'words', 'have', 'been', 'spoken', 'during', 'r
ising', 'tides', 'of', 'prosperity', 'and', 'the', 'still', 'waters', 'o
f', 'peace.', 'yet,', 'every', 'so', 'often', 'the', 'oath', 'is', 'take
n', 'amidst', 'gathering', 'clouds', 'and', 'raging', 'storms.', 'at', 'th
ese', 'moments,', 'america', 'has', 'carried', 'on', 'not', 'simply', 'bec
ause', 'of', 'the', 'skill', 'or', 'vision', 'of', 'those', 'in', 'high',
'office,', 'but', 'because', 'we', 'the', 'people', 'have', 'remained', 'f
aithful', 'to', 'the', 'ideals', 'of', 'our', 'forbearers,', 'and', 'tru
e', 'to', 'our', 'founding', 'documents.', 'so', 'it', 'has', 'been.', 's
o', 'it', 'must', 'be', 'with', 'this', 'generation', 'of', 'americans.',
'that', 'we', 'are', 'in', 'the', 'midst', 'of', 'crisis', 'is', 'now', 'w
ell', 'understood.', 'our', 'nation', 'is', 'at', 'war,', 'against', 'a',
'far-reaching', 'network', 'of', 'violence', 'and', 'hatred.', 'our', 'eco
nomy', 'is', 'badly', 'weakened,', 'a', 'consequence', 'of', 'greed', 'an
d', 'irresponsibility', 'on', 'the', 'part', 'of', 'some,', 'but', 'also',
'our', 'collective', 'failure', 'to', 'make', 'hard', 'choices', 'and', 'p
repare', 'the', 'nation', 'for', 'a', 'new', 'age.', 'homes', 'have', 'bee
n', 'lost;', 'jobs', 'shed;', 'businesses', 'shuttered.', 'our', 'health',
'care', 'is', 'too', 'costly;', 'our', 'schools', 'fail', 'too', 'many;',
'and', 'each', 'day', 'brings', 'further', 'evidence', 'that', 'the', 'way
s', 'we', 'use', 'energy', 'strengthen', 'our', 'adversaries', 'and', 'thr
eaten', 'our', 'planet.', 'these', 'are', 'the', 'indicators', 'of', 'cris
is,', 'subject', 'to', 'data', 'and', 'statistics.', 'less', 'measurable',
'but', 'no', 'less', 'profound', 'is', 'a', 'sapping', 'of', 'confidence',
'across', 'our', 'land', '--', 'a', 'nagging', 'fear', 'that', "americ
a's", 'decline', 'is', 'inevitable,', 'that', 'the', 'next', 'generation',
'must', 'lower', 'its', 'sights.', 'today', 'i', 'say', 'to', 'you', 'tha
t', 'the', 'challenges', 'we', 'face', 'are', 'real.', 'they', 'are', 'ser
ious', 'and', 'they', 'are', 'many.', 'they', 'will', 'not', 'be', 'met',
'easily', 'or', 'in', 'a', 'short', 'span', 'of', 'time.', 'but', 'know',
'this,', 'america', '--', 'they', 'will', 'be', 'met.', 'on', 'this', 'da
y,', 'we', 'gather', 'because', 'we', 'have', 'chosen', 'hope', 'over', 'f
ear,', 'unity', 'of', 'purpose', 'over', 'conflict', 'and', 'discord.', 'o
n', 'this', 'day,', 'we', 'come', 'to', 'proclaim', 'an', 'end', 'to', 'th
e', 'petty', 'grievances', 'and', 'false', 'promises,', 'the', 'recriminat
ions', 'and', 'worn-out', 'dogmas', 'that', 'for', 'far', 'too', 'long',
'have', 'strangled', 'our', 'politics.', 'we', 'remain', 'a', 'young', 'na
tion,', 'but', 'in', 'the', 'words', 'of', 'scripture,', 'the', 'time', 'h
as', 'come', 'to', 'set', 'aside', 'childish', 'things.', 'the', 'time',
'has', 'come', 'to', 'reaffirm', 'our', 'enduring', 'spirit;', 'to', 'choo
se', 'our', 'better', 'history;', 'to', 'carry', 'forward', 'that', 'preci
ous', 'gift,', 'that', 'noble', 'idea,', 'passed', 'on', 'from', 'generati
on', 'to', 'generation:', 'the', 'god-given', 'promise', 'that', 'all', 'a
re', 'equal,', 'all', 'are', 'free,', 'and', 'all', 'deserve', 'a', 'chanc
e', 'to', 'pursue', 'their', 'full', 'measure', 'of', 'happiness.', 'in',
'reaffirming', 'the', 'greatness', 'of', 'our', 'nation,', 'we', 'understa
nd', 'that', 'greatness', 'is', 'never', 'a', 'given.', 'it', 'must', 'b
e', 'earned.', 'our', 'journey', 'has', 'never', 'been', 'one', 'of', 'sho
rtcuts', 'or', 'settling', 'for', 'less.', 'it', 'has', 'not', 'been', 'th
e', 'path', 'for', 'the', 'faint-hearted', '--', 'for', 'those', 'who', 'p
refer', 'leisure', 'over', 'work,', 'or', 'seek', 'only', 'the', 'pleasure
s', 'of', 'riches', 'and', 'fame.', 'rather,', 'it', 'has', 'been', 'the',
'risk-takers,', 'the', 'doers,', 'the', 'makers', 'of', "things some", 'ce
lebrated', 'but', 'more', 'often', 'men', 'and', 'women', 'obscure', 'in',

'their', 'labor,', 'who', 'have', 'carried', 'us', 'up', 'the', 'long,', 'rugged', 'path', 'towards', 'prosperity', 'and', 'freedom.', 'for', 'us,', 'they', 'packed', 'up', 'their', 'few', 'worldly', 'possessions', 'and', 'traveled', 'across', 'oceans', 'in', 'search', 'of', 'a', 'new', 'life.', 'for', 'us,', 'they', 'toiled', 'in', 'sweatshops', 'and', 'settled', 'the', 'west;', 'endured', 'the', 'lash', 'of', 'the', 'whip', 'and', 'plowed', 'the', 'hard', 'earth.', 'for', 'us,', 'they', 'fought', 'and', 'died', 'in', 'places', 'like', 'concord', 'and', 'gettysburg;', 'normandy', 'and', 'khe', 'sahn.', 'time', 'and', 'again', 'these', 'men', 'and', 'women', 'struggled', 'and', 'sacrificed', 'and', 'worked', 'till', 'their', 'hands', 'were', 'raw', 'so', 'that', 'we', 'might', 'live', 'a', 'better', 'life.', 'they', 'saw', 'america', 'as', 'bigger', 'than', 'the', 'sum', 'of', 'our', 'individual', 'ambitions;', 'greater', 'than', 'all', 'the', 'differences', 'of', 'birth', 'or', 'wealth', 'or', 'faction.', 'this', 'is', 'the', 'journey', 'we', 'continue', 'today.', 'we', 'remain', 'the', 'most', 'prosperous', 'powerful', 'nation', 'on', 'earth.', 'our', 'workers', 'are', 'no', 'less', 'productive', 'than', 'when', 'this', 'crisis', 'began.', 'our', 'minds', 'are', 'no', 'less', 'inventive', 'our', 'goods', 'and', 'services', 'no', 'less', 'needed', 'than', 'they', 'were', 'last', 'week', 'or', 'last', 'month', 'or', 'last', 'year.', 'our', 'capacity', 'remains', 'undiminished.', 'but', 'our', 'time', 'of', 'standing', 'pat', 'of', 'protecting', 'narrow', 'interests', 'and', 'putting', 'off', 'unpleasant', 'decisions', '--', 'that', 'time', 'has', 'surely', 'passed.', 'starting', 'today', 'we', 'must', 'pick', 'ourselves', 'up', 'dust', 'ourselves', 'off', 'and', 'begin', 'again', 'the', 'work', 'of', 'remaking', 'america.', 'for', 'everywhere', 'we', 'look', 'there', 'is', 'work', 'to', 'be', 'done.', 'the', 'state', 'of', 'our', 'economy', 'calls', 'for', 'action', 'bold', 'and', 'swift', 'and', 'we', 'will', 'act', '--', 'not', 'only', 'to', 'create', 'new', 'jobs', 'but', 'to', 'lay', 'a', 'new', 'foundation', 'for', 'growth.', 'we', 'will', 'build', 'the', 'roads', 'and', 'bridges', 'the', 'electric', 'grids', 'and', 'digital', 'lines', 'that', 'feed', 'our', 'commerce', 'and', 'bind', 'us', 'together.', 'we', 'will', 'restore', 'science', 'to', 'its', 'rightful', 'place', 'and', 'wield', 'technology's', 'wonders', 'to', 'raise', 'health', 'care's', 'quality', 'and', 'lower', 'its', 'cost.', 'we', 'will', 'harness', 'the', 'sun', 'and', 'the', 'winds', 'and', 'the', 'soil', 'to', 'fuel', 'our', 'cars', 'and', 'run', 'our', 'factories.', 'and', 'we', 'will', 'transform', 'our', 'schools', 'and', 'colleges', 'and', 'universities', 'to', 'meet', 'the', 'demands', 'of', 'a', 'new', 'age.', 'all', 'this', 'we', 'can', 'do.', 'all', 'this', 'we', 'will', 'do.', 'now', 'there', 'are', 'some', 'who', 'question', 'the', 'scale', 'of', 'our', 'ambitions', '--', 'who', 'suggest', 'that', 'our', 'system', 'cannot', 'tolerate', 'too', 'many', 'big', 'plans.', 'their', 'memories', 'are', 'short.', 'for', 'they', 'have', 'forgotten', 'what', 'this', 'country', 'has', 'already', 'done;', 'what', 'free', 'men', 'and', 'women', 'can', 'achieve', 'when', 'imagination', 'is', 'joined', 'to', 'common', 'purpose', 'and', 'necessity', 'to', 'courage.', 'what', 'the', 'cynics', 'fail', 'to', 'understand', 'is', 'that', 'the', 'ground', 'has', 'shifted', 'beneath', 'them', '--', 'that', 'the', 'stale', 'political', 'arguments', 'that', 'have', 'consumed', 'us', 'for', 'so', 'long', 'no', 'longer', 'apply.', 'the', 'question', 'we', 'ask', 'today', 'is', 'not', 'whether', 'our', 'government', 'is', 'too', 'big', 'or', 'too', 'small', 'but', 'whether', 'it', 'works', '--', 'whether', 'it', 'helps', 'families', 'find', 'jobs', 'at', 'a', 'decent', 'wage', 'care', 'they', 'can', 'afford', 'a', 'retirement', 'that', 'is', 'dignified.', 'where', 'the', 'answer', 'is', 'yes', 'we', 'intend', 'to', 'move', 'forward.', 'where', 'the', 'answer', 'is', 'no', 'programs', 'will', 'end.', 'and', 'those', 'of', 'us', 'who', 'manage', 'the', 'public's', 'dollars', 'will', 'be', 'held', 'to', 'account', '--', 'to', 'spend', 'wisely', 'reform', 'bad', 'habits', 'and', 'do', 'our', 'business', 'in', 'the', 'light', 'of', 'day', '--', 'because', 'only', 'then', 'can', 'we', 'restore', 'the', 'vital', 'trust', 'between', 'a', 'people

ople', 'and', 'their', 'government.', 'nor', 'is', 'the', 'question', 'bef
 ore', 'us', 'whether', 'the', 'market', 'is', 'a', 'force', 'for', 'good',
 'or', 'ill.', 'its', 'power', 'to', 'generate', 'wealth', 'and', 'expand',
 'freedom', 'is', 'unmatched', 'but', 'this', 'crisis', 'has', 'reminded',
 'us', 'that', 'without', 'a', 'watchful', 'eye', 'the', 'market', 'can',
 'spin', 'out', 'of', 'control', '--', 'the', 'nation', 'cannot', 'prospe
 r', 'long', 'when', 'it', 'favors', 'only', 'the', 'prosperous.', 'the',
 'success', 'of', 'our', 'economy', 'has', 'always', 'depended', 'not', 'ju
 st', 'on', 'the', 'size', 'of', 'our', 'gross', 'domestic', 'product', 'b
 ut', 'on', 'the', 'reach', 'of', 'our', 'prosperity;', 'on', 'the', 'abili
 ty', 'to', 'extend', 'opportunity', 'to', 'every', 'willing', 'heart', '--
 ', 'not', 'out', 'of', 'charity', 'but', 'because', 'it', 'is', 'the', 's
 urest', 'route', 'to', 'our', 'common', 'good.', 'as', 'for', 'our', 'comm
 on', 'defense', 'we', 'reject', 'as', 'false', 'the', 'choice', 'betwee
 n', 'our', 'safety', 'and', 'our', 'ideals.', 'our', 'founding', 'father
 s', 'faced', 'with', 'perils', 'that', 'we', 'can', 'scarcely', 'imagin
 e', 'drafted', 'a', 'charter', 'to', 'assure', 'the', 'rule', 'of', 'la
 w', 'and', 'the', 'rights', 'of', 'man', 'a', 'charter', 'expanded', 'b
 y', 'the', 'blood', 'of', 'generations.', 'those', 'ideals', 'still', 'lig
 ht', 'the', 'world', 'and', 'we', 'will', 'not', 'give', 'them', 'up', 'f
 or', "expedience's", 'sake.', 'and', 'so', 'to', 'all', 'the', 'other', 'p
 eoples', 'and', 'governments', 'who', 'are', 'watching', 'today', 'from',
 'the', 'grandest', 'capitals', 'to', 'the', 'small', 'village', 'where',
 'my', 'father', 'was', 'born:', 'know', 'that', 'america', 'is', 'a', 'fri
 end', 'of', 'each', 'nation', 'and', 'every', 'man', 'woman', 'and', 'ch
 ild', 'who', 'seeks', 'a', 'future', 'of', 'peace', 'and', 'dignity', 'an
 d', 'we', 'are', 'ready', 'to', 'lead', 'once', 'more.', 'recall', 'that',
 'earlier', 'generations', 'faced', 'down', 'fascism', 'and', 'communism',
 'not', 'just', 'with', 'missiles', 'and', 'tanks', 'but', 'with', 'the',
 'sturdy', 'alliances', 'and', 'enduring', 'convictions.', 'they', 'underst
 ood', 'that', 'our', 'power', 'alone', 'cannot', 'protect', 'us', 'nor',
 'does', 'it', 'entitle', 'us', 'to', 'do', 'as', 'we', 'please.', 'instea
 d', 'they', 'knew', 'that', 'our', 'power', 'grows', 'through', 'its', 'p
 rudent', 'use;', 'our', 'security', 'emanates', 'from', 'the', 'justness',
 'of', 'our', 'cause', 'the', 'force', 'of', 'our', 'example', 'the', 'te
 mpering', 'qualities', 'of', 'humility', 'and', 'restraint.', 'we', 'are',
 'the', 'keepers', 'of', 'this', 'legacy.', 'guided', 'by', 'these', 'princ
 iples', 'once', 'more', 'we', 'can', 'meet', 'those', 'new', 'threats',
 'that', 'demand', 'even', 'greater', 'effort', '--', 'even', 'greater', 'c
 ooperation', 'and', 'understanding', 'between', 'nations.', 'we', 'will',
 'begin', 'to', 'responsibly', 'leave', 'iraq', 'to', 'its', 'people', 'an
 d', 'forge', 'a', 'hard-earned', 'peace', 'in', 'afghanistan.', 'with', 'o
 ld', 'friends', 'and', 'former', 'foes', 'we', 'will', 'work', 'tirelessl
 y', 'to', 'lessen', 'the', 'nuclear', 'threat', 'and', 'roll', 'back', 't
 he', 'specter', 'of', 'a', 'warming', 'planet.', 'we', 'will', 'not', 'apo
 logize', 'for', 'our', 'way', 'of', 'life', 'nor', 'will', 'we', 'waver',
 'in', 'its', 'defense', 'and', 'for', 'those', 'who', 'seek', 'to', 'adva
 nce', 'their', 'aims', 'by', 'inducing', 'terror', 'and', 'slaughtering',
 'innocents', 'we', 'say', 'to', 'you', 'now', 'that', 'our', 'spirit', 'i
 s', 'stronger', 'and', 'cannot', 'be', 'broken;', 'you', 'cannot', 'outlas
 t', 'us', 'and', 'we', 'will', 'defeat', 'you.', 'for', 'we', 'know', 'th
 at', 'our', 'patchwork', 'heritage', 'is', 'a', 'strength', 'not', 'a',
 'weakness.', 'we', 'are', 'a', 'nation', 'of', 'christians', 'and', 'musli
 ms', 'jews', 'and', 'hindus', '--', 'and', 'non-believers.', 'we', 'are',
 'shaped', 'by', 'every', 'language', 'and', 'culture', 'drawn', 'from',
 'every', 'end', 'of', 'this', 'earth;', 'and', 'because', 'we', 'have', 't
 asted', 'the', 'bitter', 'swill', 'of', 'civil', 'war', 'and', 'segregatio
 n', 'and', 'emerged', 'from', 'that', 'dark', 'chapter', 'stronger', 'an
 d', 'more', 'united', 'we', 'cannot', 'help', 'but', 'believe', 'that',
 'the', 'old', 'hatreds', 'shall', 'someday', 'pass;', 'that', 'the', 'line
 s', 'of', 'tribe', 'shall', 'soon', 'dissolve;', 'that', 'as', 'the', 'wor

ld', 'grows', 'smaller,', 'our', 'common', 'humanity', 'shall', 'reveal', 'itself;', 'and', 'that', 'america', 'must', 'play', 'its', 'role', 'in', 'ushering', 'in', 'a', 'new', 'era', 'of', 'peace.', 'to', 'the', 'muslim', 'world,', 'we', 'seek', 'a', 'new', 'way', 'forward,', 'based', 'on', 'mutual', 'interest', 'and', 'mutual', 'respect.', 'to', 'those', 'leaders', 'around', 'the', 'globe', 'who', 'seek', 'to', 'sow', 'conflict,', 'or', 'blame', 'their', "society's", 'ills', 'on', 'the', 'west', '--', 'know', 'that', 'your', 'people', 'will', 'judge', 'you', 'on', 'what', 'you', 'can', 'build,', 'not', 'what', 'you', 'destroy.', 'to', 'those', 'who', 'cling', 'to', 'power', 'through', 'corruption', 'and', 'deceit', 'and', 'the', 'silencing', 'of', 'dissent,', 'know', 'that', 'you', 'are', 'on', 'the', 'wrong', 'side', 'of', 'history;', 'but', 'that', 'we', 'will', 'extend', 'a', 'hand', 'if', 'you', 'are', 'willing', 'to', 'unclench', 'your', 'fist.', 'to', 'the', 'people', 'of', 'poor', 'nations,', 'we', 'pledge', 'to', 'work', 'alongside', 'you', 'to', 'make', 'your', 'farms', 'flourish', 'and', 'let', 'clean', 'waters', 'flow;', 'to', 'nourish', 'starved', 'bodies', 'and', 'feed', 'hungry', 'minds.', 'and', 'to', 'those', 'nations', 'like', 'ours', 'that', 'enjoy', 'relative', 'plenty,', 'we', 'say', 'we', 'can', 'no', 'longer', 'afford', 'indifference', 'to', 'the', 'suffering', 'outside', 'our', 'borders;', 'nor', 'can', 'we', 'consume', 'the', "world's", 'resources', 'without', 'regard', 'to', 'effect.', 'for', 'the', 'world', 'has', 'changed,', 'and', 'we', 'must', 'change', 'with', 'it.', 'as', 'we', 'consider', 'the', 'road', 'that', 'unfolds', 'before', 'us,', 'we', 'remember', 'with', 'humble', 'gratitude', 'those', 'brave', 'americans', 'who', 'at', 'this', 'very', 'hour', 'patrol', 'far-off', 'deserts', 'and', 'distant', 'mountains.', 'they', 'have', 'something', 'to', 'tell', 'us,', 'just', 'as', 'the', 'fallen', 'heroes', 'who', 'lie', 'in', 'arlington', 'whisper', 'through', 'the', 'ages.', 'we', 'honor', 'them', 'not', 'only', 'because', 'they', 'are', 'the', 'guardians', 'of', 'our', 'liberty,', 'but', 'because', 'they', 'embody', 'the', 'spirit', 'of', 'service;', 'a', 'willingness', 'to', 'find', 'meaning', 'in', 'something', 'greater', 'than', 'themselves.', 'and', 'yet,', 'at', 'this', 'moment', '--', 'a', 'moment', 'that', 'will', 'define', 'a', 'generation', '--', 'it', 'is', 'precisely', 'this', 'spirit', 'that', 'must', 'inhabit', 'us', 'all.', 'for', 'as', 'much', 'as', 'government', 'can', 'do', 'and', 'must', 'do,', 'it', 'is', 'ultimately', 'the', 'faith', 'and', 'determination', 'of', 'the', 'american', 'people', 'upon', 'which', 'this', 'nation', 'relies.', 'it', 'is', 'the', 'kindness', 'to', 'take', 'in', 'a', 'stranger', 'when', 'the', 'levees', 'break,', 'the', 'selflessness', 'of', 'workers', 'who', 'would', 'rather', 'cut', 'their', 'hours', 'than', 'see', 'a', 'friend', 'lose', 'their', 'job', 'which', 'sees', 'us', 'through', 'our', 'darkest', 'hours.', 'it', 'is', 'the', "firefighter's", 'courage', 'to', 'storm', 'a', 'stairway', 'filled', 'with', 'smoke,', 'but', 'also', 'a', "parent's", 'willingness', 'to', 'nurture', 'a', 'child', 'that', 'finally', 'decides', 'our', 'fate.', 'our', 'challenges', 'may', 'be', 'new.', 'the', 'instruments', 'with', 'which', 'we', 'meet', 'them', 'may', 'be', 'new.', 'but', 'those', 'values', 'upon', 'which', 'our', 'success', 'depends', '--', 'honesty', 'and', 'hard', 'work,', 'courage', 'and', 'fair', 'play,', 'tolerance', 'and', 'curiosity,', 'loyalty', 'and', 'patriotism', '--', 'these', 'things', 'are', 'old.', 'these', 'things', 'are', 'true.', 'they', 'have', 'been', 'the', 'quiet', 'force', 'of', 'progress', 'throughout', 'our', 'history.', 'what', 'is', 'demanded', 'then', 'is', 'a', 'return', 'to', 'these', 'truths.', 'what', 'is', 'required', 'of', 'us', 'now', 'is', 'a', 'new', 'era', 'of', 'responsibility', '--', 'a', 'recognition', 'on', 'the', 'part', 'of', 'every', 'american', 'that', 'we', 'have', 'duties', 'to', 'ourselves,', 'our', 'nation', 'and', 'the', 'world,', 'duties', 'that', 'we', 'do', 'not', 'grudgingly', 'accept', 'but', 'rather', 'seize', 'gladly,', 'firm', 'in', 'the', 'knowledge', 'that', 'there', 'is', 'nothing', 'so', 'satisfying', 'to', 'the', 'spirit', 'so', 'defining', 'of', 'our', 'character', 'than', 'giving', 'our', 'all', 'to', 'a', 'difficult', 'task.', 'this', 'is', 'the', 'price',

'and', 'the', 'promise', 'of', 'citizenship.', 'this', 'is', 'the', 'source', 'of', 'our', 'confidence', '--', 'the', 'knowledge', 'that', 'god', 'calls', 'on', 'us', 'to', 'shape', 'an', 'uncertain', 'destiny.', 'this', 'is', 'the', 'meaning', 'of', 'our', 'liberty', 'and', 'our', 'creed', '--', 'why', 'men', 'and', 'women', 'and', 'children', 'of', 'every', 'race', 'and', 'every', 'faith', 'can', 'join', 'in', 'celebration', 'across', 'this', 'magnificent', 'mall,', 'and', 'why', 'a', 'man', 'whose', 'father', 'less', 'than', 'sixty', 'years', 'ago', 'might', 'not', 'have', 'been', 'served', 'at', 'a', 'local', 'restaurant', 'can', 'now', 'stand', 'before', 'you', 'to', 'take', 'a', 'most', 'sacred', 'oath.', 'so', 'let', 'us', 'mark', 'this', 'day', 'with', 'remembrance', 'of', 'who', 'we', 'are', 'and', 'how', 'far', 'we', 'have', 'traveled.', 'in', 'the', 'year', 'of', '"america's"', 'birth,', 'in', 'the', 'coldest', 'of', 'months,', 'a', 'small', 'band', 'of', 'patriots', 'huddled', 'by', 'dying', 'campfires', 'on', 'the', 'shores', 'of', 'an', 'icy', 'river.', 'the', 'capital', 'was', 'abandoned.', 'the', 'enemy', 'was', 'advancing.', 'the', 'snow', 'was', 'stained', 'with', 'blood.', 'at', 'a', 'moment', 'when', 'the', 'outcome', 'of', 'our', 'revolution', 'was', 'most', 'in', 'doubt,', 'the', 'father', 'of', 'our', 'nation', 'ordered', 'these', 'words', 'be', 'read', 'to', 'the', 'people:', '"let', 'it', 'be', 'told', 'to', 'the', 'future', 'world', '...', 'that', 'in', 'the', 'depth', 'of', 'winter,', 'when', 'nothing', 'but', 'hope', 'and', 'virtue', 'could', 'survive', '...', 'that', 'the', 'city', 'and', 'the', 'country,', 'alarmed', 'at', 'one', 'common', 'danger,', 'came', 'forth', 'to', 'meet', '...', 'it."', 'america!', 'in', 'the', 'face', 'of', 'our', 'common', 'dangers,', 'in', 'this', 'winter', 'of', 'our', 'hardship,', 'let', 'us', 'remember', 'these', 'timeless', 'words.', 'with', 'hope', 'and', 'virtue,', 'let', 'us', 'be', 'brave', 'once', 'more', 'the', 'icy', 'currents,', 'and', 'endure', 'what', 'storms', 'may', 'come.', 'let', 'it', 'be', 'said', 'by', 'our', '"children's"', 'children', 'that', 'when', 'we', 'were', 'tested', 'we', 'refused', 'to', 'let', 'this', 'journey', 'end,', 'that', 'we', 'did', 'not', 'turn', 'back', 'nor', 'did', 'we', 'falter;', 'and', 'with', 'eyes', 'fixed', 'on', 'the', 'horizon', 'and', '"god's"', 'grace', 'upon', 'us,', 'we', 'carried', 'forth', 'that', 'great', 'gift', 'of', 'freedom', 'and', 'delivered', 'it', 'safely', 'to', 'future', 'generations.', 'thank', 'you.', 'god', 'bless', 'you.', 'and', 'god', 'bless', 'the', 'united', 'states', 'of', 'america.']

In [93]:

```
A = []
for i in words:
    if(i.isalnum()):
        A.append(i)
    else:
        str = ""
        for j in i:
            if(j.isalnum()):
                str += j
        if(str != ""):
            A.append(str)
```

In [94]:

A

Out[94]:

```
['my',  
'fellow',  
'citizens',  
'i',  
'stand',  
'here',  
'today',  
'humbled',  
'by',  
'the',  
'task',  
'before',  
'us',  
'grateful',  
'for',  
'the',  
'trust',  
'you',  
'have',  
'bestowed',  
'mindful',  
'of',  
'the',  
'sacrifices',  
'borne',  
'by',  
'our',  
'ancestors',  
'i',  
'thank',  
'president',  
'bush',  
'for',  
'his',  
'service',  
'to',  
'our',  
'nation',  
'as',  
'well',  
'as',  
'the',  
'generosity',  
'and',  
'cooperation',  
'he',  
'has',  
'shown',  
'throughout',  
'this',  
'transition',  
'fortyfour',  
'americans',  
'have',  
'now',  
'taken',  
'the',  
'presidential',  
'oath',
```

'the',
'words',
'have',
'been',
'spoken',
'during',
'rising',
'tides',
'of',
'prosperity',
'and',
'the',
'still',
'waters',
'of',
'peace',
'yet',
'every',
'so',
'often',
'the',
'oath',
'is',
'taken',
'amidst',
'gathering',
'clouds',
'and',
'raging',
'storms',
'at',
'these',
'moments',
'america',
'has',
'carried',
'on',
'not',
'simply',
'because',
'of',
'the',
'skill',
'or',
'vision',
'of',
'those',
'in',
'high',
'office',
'but',
'because',
'we',
'the',
'people',
'have',
'remained',
'faithful',
'to',
'the',
'ideals',

'of',
'our',
'forbearers',
'and',
'true',
'to',
'our',
'founding',
'documents',
'so',
'it',
'has',
'been',
'so',
'it',
'must',
'be',
'with',
'this',
'generation',
'of',
'americans',
'that',
'we',
'are',
'in',
'the',
'midst',
'of',
'crisis',
'is',
'now',
'well',
'understood',
'our',
'nation',
'is',
'at',
'war',
'against',
'a',
'farreaching',
'network',
'of',
'violence',
'and',
'hatred',
'our',
'economy',
'is',
'badly',
'weakened',
'a',
'consequence',
'of',
'greed',
'and',
'irresponsibility',
'on',
'the',
'part',

'of',
'some',
'but',
'also',
'our',
'collective',
'failure',
'to',
'make',
'hard',
'choices',
'and',
'prepare',
'the',
'nation',
'for',
'a',
'new',
'age',
'homes',
'have',
'been',
'lost',
'jobs',
'shed',
'businesses',
'shuttered',
'our',
'health',
'care',
'is',
'too',
'costly',
'our',
'schools',
'fail',
'too',
'many',
'and',
'each',
'day',
'brings',
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'evidence',
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'the',
'ways',
'we',
'use',
'energy',
'strengthen',
'our',
'adversaries',
'and',
'threaten',
'our',
'planet',
'these',
'are',
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'subject',
'to',
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'no',
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'that',
'americas',
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'is',
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'that',
'the',
'next',
'generation',
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'lower',
'its',
'sights',
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'i',
'say',
'to',
'you',
'that',
'the',
'challenges',
'we',
'face',
'are',
'real',
'they',
'are',
'serious',
'and',
'they',
'are',
'many',
'they',
'will',
'not',
'be',
'met',

'easily',
'or',
'in',
'a',
'short',
'span',
'of',
'time',
'but',
'know',
'this',
'america',
'they',
'will',
'be',
'met',
'on',
'this',
'day',
'we',
'gather',
'because',
'we',
'have',
'chosen',
'hope',
'over',
'fear',
'unity',
'of',
'purpose',
'over',
'conflict',
'and',
'discord',
'on',
'this',
'day',
'we',
'come',
'to',
'proclaim',
'an',
'end',
'to',
'the',
'petty',
'grievances',
'and',
'false',
'promises',
'the',
'recriminations',
'and',
'wornout',
'dogmas',
'that',
'for',
'far',
'too',
'long',

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'strangled',
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'politics',
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'remain',
'a',
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'nation',
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'in',
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'has',
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'to',
'set',
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'to',
'reaffirm',
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'to',
'choose',
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'better',
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'to',
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'gift',
'that',
'noble',
'idea',
'passed',
'on',
'from',
'generation',
'to',
'generation',
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'us',
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'path',
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'bigger',
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'will',
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'bridges',
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'our',
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'bind',
'us',
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'will',
'restore',

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'to',
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'and',
'wield',
'technologys',
'wonders',
'to',
'raise',
'health',
'cares',
'quality',
'and',
'lower',
'its',
'cost',
'we',
'will',
'harness',
'the',
'sun',
'and',
'the',
'winds',
'and',
'the',
'soil',
'to',
'fuel',
'our',
'cars',
'and',
'run',
'our',
'factories',
'and',
'we',
'will',
'transform',
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'schools',
'and',
'colleges',
'and',
'universities',
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'meet',
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'new',
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'we',
'can',
'do',
'all',

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'they',
'have',
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'what',
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'has',
'already',
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'what',
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'and',
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'can',
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'to',
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'and',
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'to',
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'what',
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'to',
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'the',
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'them',
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'the',
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'longer',
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'is',
'not',
'whether',
'our',
'government',
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'too',
'big',
'or',
'too',
'small',
'but',
'whether',
'it',
'works',
'whether',
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'families',
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'jobs',
'at',
'a',
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'of',
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...]

In [96]:

```
wordfreq
```

Out[96]:

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```

In [95]:

```
wordfreq = {}  
for i in A:  
    if i not in wordfreq:  
        wordfreq[i] = 0  
    wordfreq[i] += 1
```

In [97]:

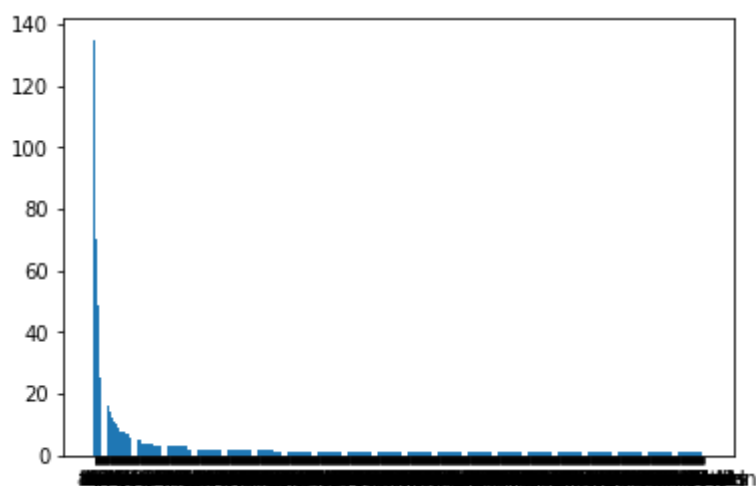
```
import matplotlib.pyplot as plt
```

In [98]:

```
from collections import Counter  
import numpy as np  
import matplotlib.pyplot as plt
```

In [99]:

```
counts = wordfreq
labels, values = zip(*counts.items())
indSort = np.argsort(values)[::-1]
labels = np.array(labels)[indSort]
values = np.array(values)[indSort]
indexes = np.arange(len(labels))
bar_width = 0.35
plt.bar(indexes, values)
plt.xticks(indexes + bar_width, labels)
plt.show()
```



In [102]:

```
from os import path
from wordcloud import WordCloud
```

In [105]:

```
something = ' '
for i in A:
    something = something + i + ' '

wordcloud = WordCloud(width = 800, height = 800,
                      background_color = 'white',
                      min_font_size = 10).generate(something)
```

```
plt.figure(figsize = (8, 8), facecolor = None)
plt.imshow(wordcloud)
plt.axis("off")
plt.tight_layout(pad = 0)
plt.show()
```

