A Programmer's Attitude

In [1]:

```
%%javascript
$.getScript("https://kmahelona.github.io/ipython_notebook_goodies/ipython_notebook_toc.js")
```

Background

What's a programmer's attitude? Let me tell you a story.

Years ago, I stumble upon an interesting slide: attitude (https://www.slideshare.net/charlesfong/attitude-100-presentation),

A SMALL TRUTH TO MAKE LIFE 100%

If

ABCDEFGHIJKLMNOPQRSTUVWXYZ

Is equal to

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

Hard Work

H+A+R+D+W+O+R+K

8+1+18+4+23+15+18+11= 98%

Knowledge

K+N+O+W+L+E+D+G+E

11+14+15+23+12+5+4+7+5= 96%

Clip slide

Love

L+O+V+E

12+15+22+5= 54%

Luck

L+U+C+K

12+21+3+11= 47%

(don’t most of us think is the most important???)

Clip slide

Then What Makes 100%

Money No!!!

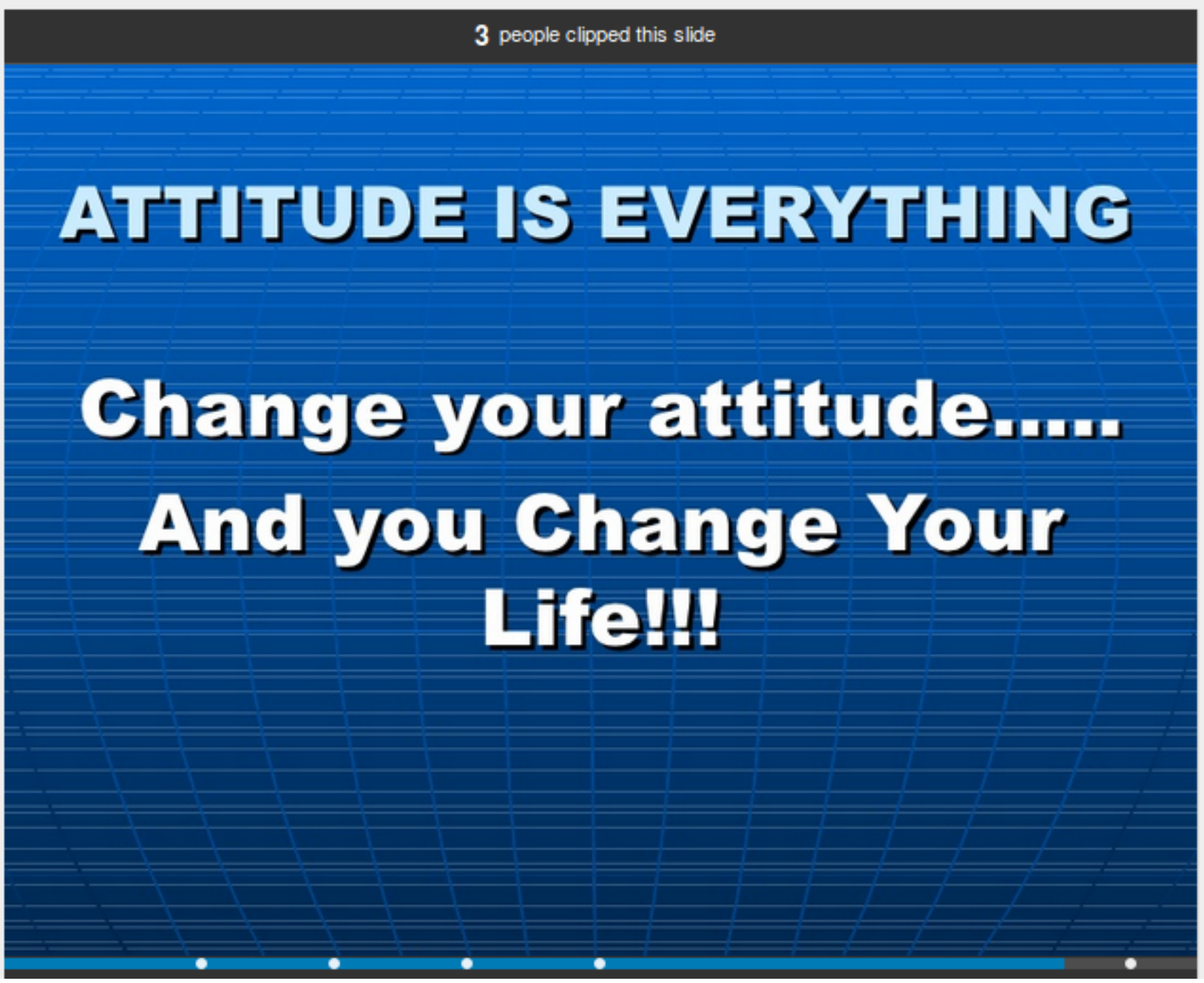
M+O+N+E+Y

13+15+14+5+25= 72%

Leadership No!!!

L+E+A+D+E+R+S+H+I+P

12+5+1+4+5+18+19+8+9+16= 89%



I was amazed at this! It seems that the word *attitude* is emiting its magic power from its every single letter!

Is it true or just a coincidence?

What's your opinion? Do you accept it or doubt it?

You might want to pause and think for a moment ...

I doubt it. I want to find out if there are other letters sum up to 100.

But how? It would be tedious to go through all the English words and figure out the sum.

I was studying Python at that time, so I decided to borrow some power from Python.

Step 1: Get a English word list

Find an online dictionary

Searched the web and find the following,

In [2]:

```
import requests

url = "http://app.aspell.net/create?max_size=60&spelling=US&max_variant=0"\
    "&diacritic=strip&special=hacker&special=roman-numerals&download=wordlist&en
coding=utf-8&format=inline"

r = requests.get(url)
```

In [11]:

```
s = "abc\nedf\ngghh"
print(s)
print(s.split("\n")[1:])
```

```
abc
edf
gghh
['edf', 'gghh']
```

In [3]:

```
if r.status_code == 200:
    text = r.content.decode("utf-8")
    print(text[:1800])
```

```
Custom wordlist generated from http://app.aspell.net/create using SC
OWL
with parameters:
  diacritic: strip
  max_size: 60
  max_variant: 0
  special: hacker roman-numerals
  spelling: US

Using Git Commit From: Thu Aug 24 14:36:19 2017 -0400 [2614b88]

Copyright 2000-2014 by Kevin Atkinson

  Permission to use, copy, modify, distribute and sell these word
  lists, the associated scripts, the output created from the scripts
,
  and its documentation for any purpose is hereby granted without fe
```

e,
  provided that the above copyright notice appears in all copies and
  that both that copyright notice and this permission notice appear
in
  supporting documentation. Kevin Atkinson makes no representations
  about the suitability of this array for any purpose. It is provide
d
  "as is" without express or implied warranty.

Special credit also goes to Alan Beale <biljir@pobox.com> as he has
given me an incredible amount of feedback and created a number of
special lists (those found in the Supplement) in order to help impro
ve
the overall quality of SCOWL.

Many sources were used in the creation of SCOWL, most of them were i
n
the public domain or used indirectly. For a full list please see th
e
SCOWL readme.

http://wordlist.aspell.net/

A
A's
AA
AA's
AAA
AB
AB's
ABA
ABC
ABC's
ABCs
ABM
ABM's
ABMs
ABS

```
AC
AC's
ACLU
ACLU's
ACT
ACTH
ACTH'
```

Clean the dateset

Need do the following cleaning work,

- remove the header part
- remove all the words with 's

In [13]:

```
list(filter(lambda w:"'" not in w, ['abc', "abc's"]))
```

Out[13]:

```
['abc']
```

In [4]:

```
wordlist = list(filter(lambda w:"'" not in w, text.split('---')[1].split('\n')))

print("total words: {}\nfirst 10 words {}".format(len(wordlist), wordlist[:10]))
```

```
total words: 88949
first 10 words ['', 'A', 'AA', 'AAA', 'AB', 'ABA', 'ABC', 'ABCs', 'A
BM', 'ABMs']
```

create a function to calculate the sum

go through the word list.

frank.zhu.mingyu@gmail.com