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- 5.6 3. HW1.5 Bias-Variance (This is an OPTIONAL HW)
- 5.7 ----- END OF HOWEWORK ------

In [1]:

In [2]:

```
%reload_ext autoreload
%autoreload 2
```

MIDS - w261 Machine Learning At Scale

Course Lead: Dr James G. Shanahan (email Jimi via James.Shanahan AT gmail.com)

Assignment - HW1

Name: Nilesh Bhoyar

Class: MIDS w261 (Summer 2017 Group 2) Email: nilesh.bhoyar@iSchool.Berkeley.edu StudentId 26302327 End of StudentId

Week: 1

NOTE please replace 1234567 with your student id above

Due Time: HW is due the Tuesday of the following week by 8AM (West coast time). I.e., Tuesday, Jan 17, 2017 in the case of this homework. Please note a late submission may result in a ZERO grade for this homework.

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1 Instructions

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MIDS UC Berkeley, Machine Learning at Scale DATSCIW261 ASSIGNMENT #1

Version 2017-01-12

IMPORTANT

HW1 can be completed locally on your computer. You will not need any other python modules than the ones provided. For example, you should not have to import numpy.

Homeworks will be graded using a combination of manual review and unit tests. Where applicable, please make sure to enter your solution between the comments:

```
# START STUDENT CODE
# END STUDENT CODE.
```

For questions that contain the above comments, do not modify anything else in the code block.

Create a HW1 directory on your hard-drive, and place this notebook into it. Rename it to include your UCB student id. All files output by the code blocks should also reside at the root of your HW1 directory. It might look something like this:

=== INSTRUCTIONS for SUBMISSIONS ===

Follow the instructions for submissions carefully.

Click this link to enable you to create a github repo within the MIDS261 Classroom: https://classroom.github.com/assignment-invitations/51317dde89d412134a749f035a0d59d3), and follow the instructions to create a HW1 repo.

Push the following to your HW1 github repo into the master branch:

- PDF export of IPython Notebook.
- The contents of your local HW1 directory.

2 Useful References

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See lecture 1

3 HW Problems

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HW_{1.0}

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HW1.0.1. Self-Introduction

W1.0.0 Prepare your bio and include it in this HW submission. Please limit to 100 words. Count the words in your bio and print the length of your bio (in terms of words) in a separate cell.

Fill in the following information [Optional]

- Your Location
- · When did you start MIDS and what is your target finish date
- What you want to get out of w261?

Answer:

I am in Parsippany, New Jersey. I started this program in Jun,2015. I will be completeting this course by end of this year.

I learnt few concepts in machine learning via W207 and in depth NLP via W2 61 course. NLP problems are also mostly large scale machine learning problems where you have huge data and complex data structures. I realized the need to taking this course - I intend to spend tons of time on understanding math behind alorithms and by end of the course I want to my self as data scientist with solid math and skills to executre model on large scale.

HW1.0.2. Big data

Define big data. Provide an example of a big data problem in your domain of expertise.

Answer:

Big data refers to data sets whose size is beyond the ability of typical d atabase software tools to capture, store, manage and analyze. But big data does not mean just boost existing data from giga byte to tera byte by rep licating it multiple times. Big data is collection of datasets some of wh ich can be structured and unstructured, some of it could be online and s ome of it could be really a paper. Datasets could be transactional in nature or master data as well. so in general, clunky, messy and hard to use in E XISTING SYSTEMS. For same reason we also hear big data contains volume, ve locity, and variety.

So big data definition will change over the time. As technology advances, what is big data today won't be tomorrow. I work in insurance practice mo stly around premium collections and claim disbursement. We are data native company where our acturial calculations depend on predicting loss for per dollar premium earned. We have to frequently build models to predict losss es by analyzing the claims and policy details for past more then 30 years. For claims many times we will have images of catostrophic losses or individual accidents, claim can have structured data about every loss occured or it can be a pdf document with more than 200 pages describing some even t. So all losses we have paid in last 30 years is really big data and if we are able to squeez all insights from it, we can really have big compatitive advantage.

HW1.0.3. Bias Variance

What is bias-variance decomposition in the context machine learning? How is it used in machine learning?

Answer

Performance measure for regression problems is the Root Mean Square Error (RMSE). It measures the standard deviation of the errors the system makes in its predictions.

RMSE can also be called as generalization error and can be expressed as

Bias Error

This occurs is generalization error due to wrong assumption. Assuming data as linear while in actual it is quadratic. High bias model will underfit the data. I have explained this in detail with example in last section of this notebook.

Variance

This part is due to the model's excessive sensitivity to small variations in the training data. A model with many degrees of freedom is likely to have high variance, and thus to overfit the training data.

Irreducible Error

This is due to noise in data itself.

Increasing the model complexity will reduce the bias but will increase the variance. so there is trade off when we think of bias and variance. Validation error will go down as we increase the complexity of model and after some time it will increase due to variance. There are various techniques to analyze such overfitting.

Some math on bias/Variance/Irreducible erro

Generalization error is calculated as

$$Err(x_0) = E[(Y - \hat{f}(x_0))^2]$$

It is possible to decompose this error in its Bias and Variance component s:

$$Err(x_0) = \left(E[\hat{f}(x_0)] - f(x_0)\right)^2 + E[\hat{f}(x_0) - E[\hat{f}(x_0)]]^2 + \sigma_{\epsilon}^2$$

$$Err(x_0) = Bias^2 + Variance + IrreducibleError$$

3. HW1.1 WordCount using a single thread

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Write a program called alice_words.py that creates a text file named **alice_words.txt** containing an alphabetical tab separated listing of all the words, and the number of times each occurs, in the text version of Alice's Adventures in Wonderland. (You can obtain a free plain text version of the book, along with many others, from here (http://www.gutenberg.org/cache/epub/11/pg11.txt) The first 10 lines of your output file should look something like this (the counts are not totally precise):

```
a
            690
abide
            2
able
            1
about.
            102
above
            3
absence
            1
absurd
accept
            1
acceptance 1
accepted
```

In [1]:

```
# Make sure you are in HW1 directory !pwd
```

/media/notebooks/DataScience/W261/homework/HW1

In [2]:

```
# !curl 'http://www.gutenberg.org/cache/epub/11/pg11.txt' -o alicesTExtFilename.
txt
# sometimes the above link produces junk characters. However, the direct link wo
rks as expected:
!curl 'http://www.gutenberg.org/files/11/11-0.txt' -o alicesTExtFilename.txt
```

```
% Received % Xferd Average Speed
                                              Time
                                                      Time
                                                              Тi
   Current
me
                               Dload Upload
                                              Total
                                                      Spent
ft
   Speed
100 169k
          100 169k
                                223k
                                          0 --:--:-- --:-
     232k
```

In [3]:

#display the first few lines
!head alicesTExtFilename.txt

In [4]:

```
#example of a regular expression to detect words in a string.
line = """ 0017.2000-01-17.beck 0
                                        global risk management operations
       " congratulations, sally!!! kk -----forwarded by kath
y kokas/corp/enron on 01/17/2000 08:08 pm----- from: ric
k causey 01/17/2000 06:04 pm sent by: enron announcements to: all enron worldw
ide cc: subject: global risk management operations recognizing enron , s incr
easing worldwide presence in the wholesale energy business and the need to insu
re outstanding internal controls for all of our risk management activities, req
ardless of location, a global risk management operations function has been crea
ted under the direction of sally w. beck, vice president. in this role, sally w
ill report to rick causey, executive vice president and chief accounting office
   sally , s responsibilities with regard to global risk management operations
will mirror those of other recently created enron global functions. in this ro
le, sally will work closely with all enron geographic regions and wholesale com
panies to insure that each entity receives individualized regional support whil
e also focusing on the following global responsibilities: 1. enhance communicat
ion among risk management operations professionals. 2. assure the proliferation
of best operational practices around the globe. 3. facilitate the allocation o
f human resources. 4. provide training for risk management operations personne
   5. coordinate user requirements for shared operational systems. 6. oversee
the creation of a global internal control audit plan for risk management activ
ities. 7. establish procedures for opening new risk management operations offic
   and create key benchmarks for measuring on-going risk controls. each region
al operations team will continue its direct reporting relationship within its b
usiness unit, and will collaborate with sally in the delivery of these critical
 items. the houston-based risk management operations team under sue frusco , s
leadership, which currently supports risk management activities for south amer
ica and australia, will also report directly to sally. sally retains her role a
s vice president of energy operations for enron north america, reporting to the
ena office of the chairman. she has been in her current role over energy opera
tions since 1997, where she manages risk consolidation and reporting, risk mana
gement administration, physical product delivery, confirmations and cash manage
ment for ena , s physical commodity trading, energy derivatives trading and fin
ancial products trading. sally has been with enron since 1992, when she joined
the company as a manager in global credit. prior to joining enron, sally had f
our years experience as a commercial banker and spent seven years as a register
ed securities principal with a regional investment banking firm. she also owned
 and managed a retail business for several years. please join me in supporting
sally in this additional coordination role for global risk management operatio
re.findall(r'[a-z]+', line.lower()) [0:10]
```

```
Out[4]:
```

```
['beck',
'global',
'risk',
'management',
'operations',
'congratulations',
'sally',
'kk',
'forwarded',
'by']
```

Dictionaries are a good way to keep track of word counts

wordCounts={}

defaultdict are slightly more effectice way of doing word counting

One way to do word counting but not best. A defaultdict is like a regular dictionary, except that when you try to look up a key it doesn't contain, it first adds a value for it using a zero-argument function you provided when you created it. In order to use defaultdicts, you have to import them

```
In [5]:
```

```
# Here is an example of wordcounting with a defaultdict (dictionary structure wi
# default behaviours when a key does not exist in the dictionary
import re
from collections import defaultdict
line = """ 0017.2000-01-17.beck 0
                                 global risk management operations
       " congratulations, sally!!! kk -----forwarded by kath
y kokas/corp/enron on 01/17/2000 08:08 pm----- from: ric
k causey 01/17/2000 06:04 pm sent by: enron announcements to: all enron worldw
ide cc: subject: global risk management operations recognizing enron , s incr
easing worldwide presence in the wholesale energy business and the need to insu
re outstanding internal controls for all of our risk management activities, reg
ardless of location, a global risk management operations function has been crea
ted under the direction of sally w. beck, vice president. in this role, sally w
ill report to rick causey, executive vice president and chief accounting office
r. sally , s responsibilities with regard to global risk management operations
will mirror those of other recently created enron global functions. in this ro
le, sally will work closely with all enron geographic regions and wholesale com
panies to insure that each entity receives individualized regional support whil
e also focusing on the following global responsibilities: 1. enhance communicat
ion among risk management operations professionals. 2. assure the proliferation
of best operational practices around the globe. 3. facilitate the allocation o
f human resources. 4. provide training for risk management operations personne
   5. coordinate user requirements for shared operational systems. 6. oversee
the creation of a global internal control audit plan for risk management activ
ities. 7. establish procedures for opening new risk management operations offic
es and create key benchmarks for measuring on-going risk controls. each region
al operations team will continue its direct reporting relationship within its b
usiness unit, and will collaborate with sally in the delivery of these critical
items. the houston-based risk management operations team under sue frusco , s
leadership, which currently supports risk management activities for south amer
ica and australia, will also report directly to sally. sally retains her role a
s vice president of energy operations for enron north america, reporting to the
ena office of the chairman. she has been in her current role over energy opera
tions since 1997, where she manages risk consolidation and reporting, risk mana
gement administration, physical product delivery, confirmations and cash manage
ment for ena , s physical commodity trading, energy derivatives trading and fin
ancial products trading. sally has been with enron since 1992, when she joined
the company as a manager in global credit. prior to joining enron, sally had f
our years experience as a commercial banker and spent seven years as a register
ed securities principal with a regional investment banking firm. she also owned
 and managed a retail business for several years. please join me in supporting
sally in this additional coordination role for global risk management operatio
ns."""
wordCounts=defaultdict(int)
for word in re.findall(r'[a-z]+', line.lower()):
   wordCounts[word] += 1
for key in sorted(wordCounts)[0:10]:
   print (key, wordCounts[key])
```

```
('a', 7)
('accounting', 1)
('activities', 3)
('additional', 1)
('administration', 1)
('all', 3)
('allocation', 1)
('also', 3)
('america', 2)
('among', 1)
```

Fill in the code block below, then execute the cell as well as the cell below it.

This will write a file named alice_words.py and run it.

the output per line should be a tab separated key-value pair with the following format WORD TAB count

```
а
            2333333
abide
            2
able
            1
about
           102
above
            3
absence
absurd
            2
accept
            1
acceptance 1
accepted
            2
```

In [6]:

import re

%%writefile alice words.py

```
import sys
from collections import defaultdict
pathToFile = sys.argv[1]
wordCounts = defaultdict(int)
def hw11(pathToFile):
  # takes the path to the file as command line argument
  # prints sorted tab separated list of words and counts
  # ex) print word, '\t', count
  # returns sorted list of tuples of words and counts: wordList
  # ex) wordList = [('a', 690), ('abide', 2), ...]
  wordList = []
  # START STUDENT CODE HW11
  file=open(pathToFile,"r+")
  template = "{0:17}{1:3}"
  for word in re.findall(r'[a-z]+', file.read().lower()):
    wordCounts[word] += 1
  for key in sorted(wordCounts):
        #print template.format(key, wordCounts[key])
        print key ,'\t' ,wordCounts[key]
  # END STUDENT CODE HW11
  #print wordList
hw11(pathToFile)
Overwriting alice words.py
In [7]:
```

Pretty print top 10 results from alice_words.txt

!python alice words.py 'alicesTExtFilename.txt' > alice words.txt

In [8]:

```
#str.format() is a handy funcion for human friendly pretty printing:
#Examples: https://docs.python.org/2/library/string.html#format-examples
print '{:15}{}'.format('Word', 'Count')
print '='*20

with open("alice_words.txt") as f:
   idx = 0
   for line in f.readlines():
        line = line.strip()
        word, count = line.split('\t')
        # print the top 10 lines
        if idx < 10:
            print '{:17}{:3d}'.format(word, int(count))
            #print line
        idx += 1</pre>
```

Word	Count
=========	======
a	690
abide	2
able	1
about	102
above	3
absence	1
absurd	2
accept	1
acceptance	1
accepted	2

HW1.1.1 How many times does the word alice occur in the book?

HINT: read the file with python, or use subprocess to access the commandline from within the python function

As before, fill in the code block below, then execute the cell as well as the cell below it. This will write a file named hw111.py and run it.

In [9]:

```
%%writefile hw111.py
import re
import sys
from collections import defaultdict
word = sys.argv[1]
pathToFile = sys.argv[2]
adict = defaultdict(int)
def hw111(word,pathToFile):
 # takes a word and the path to the file as arguments
  # returns the line containing the word and count
  # START STUDENT CODE HW111
     with open(pathToFile) as f:
          for line in f.readlines():
            line = line.strip()
            key, count = line.split('\t')
            adict[key.rstrip()] = count
      return adict[word]
  # END STUDENT CODE HW111
print hw111(word,pathToFile)
```

```
Overwriting hwlll.py
```

```
In [10]:
```

```
!python hwll1.py 'alice' 'alice_words.txt'
```

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3. HW1.2 Command Line Map Reduce Framework

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For this HW question:

- Read through the provided mapreduce shell script (pWordCount.sh) provided below and all of its comments. When you are comfortable with their purpose and function, respond to the remaining homework questions below.
- · Run all the code blocks.
- No need to modify anything in this question.

In [11]:

```
%%writefile pWordCount.sh
#!/bin/bash
## pWordCount.sh
## Author: James G. Shanahan
## Usage: pWordCount.sh m wordlist testFile.txt
## Input:
## m = number of processes (maps), e.g., 4
## word = a word in quotes, e.g., "alice"
## inputFile = a text input file
##
```

```
## Instructions: Read this script and its comments closely.
##
                Do your best to understand the purpose of each command,
##
                and focus on how arguments are supplied to mapper.py/reducer.p
у,
##
                as this will determine how the python scripts take input.
# For HW1.3:
# modify this script to include shuffle/sort/merge phase,
# which will collate wordCount records with the same key (i.e., same word)
# run: man sort to learn more about the linux sort command
###-----
usage()
{
   echo ERROR: No arguments supplied
   echo To run use
   echo "pWordCount.sh m word inputFile"
   echo Input:
   echo "number of processes/maps, EG, 4"
   echo "word = a word in quotes, e.g., 'alice'"
   echo "inputFile = a text input file"
}
if [ $# -eq 0 ]
 then
   usage
   exit 1
fi
## collect user input
m=$1 ## the number of parallel processes (maps) to run
word=$2 ## if set to "*", then all words are used
## a text file
data=$3
## 'wc' determines the number of lines in the data
## 'perl -pe' regex strips the piped wc output to a number
linesindata=`wc -l $data | perl -pe 's/^.*?(\d+).*?$/$1/'`
## determine the lines per chunk for the desired number of processes
linesinchunk=`echo "$linesindata/$m+1" | bc`
## split the original file into chunks by line
split -1 $linesinchunk $data $data.chunk.
## assign python mappers (mapper.py) to the chunks of data
## and emit their output to temporary files
for datachunk in $data.chunk.*; do
   ## feed word list to the python mapper here and redirect STDOUT to a tempora
ry file on disk
   ####
   ####
```

```
MIDS-W261-HW-01-Bhoyar
    ./mapper.py "$word" < $datachunk > $datachunk.counts &
    ####
    ####
done
## wait for the mappers to finish their work
## 'ls' makes a list of the temporary count files
## 'perl -pe' regex replaces line breaks with spaces
countfiles=`\ls $data.chunk.*.counts | perl -pe 's/\n/ /'`
## feed the list of countfiles to the python reducer and redirect STDOUT to disk
####
####
cat $countfiles |sort -k1,1| ./reducer.py > $data.output
####
####
## clean up the data chunks and temporary count files
rm $data.chunk.*
## display the content of the output file:
cat $data.output
Overwriting pWordCount.sh
In [12]:
!head pWordCount.sh
```

```
#!/bin/bash
## pWordCount.sh
## Author: James G. Shanahan
## Usage: pWordCount.sh m wordlist testFile.txt
## Input:
##
         m = number of processes (maps), e.g., 4
         word = a word in quotes, e.g., "alice"
##
##
         inputFile = a text input file
##
## Instructions: Read this script and its comments closely.
In [13]:
# Change the execution priviledges to make the shell script executable by all
!chmod a+x pWordCount.sh
```

Test the framework without parameters:

```
In [14]:
```

```
! ./pWordCount.sh

ERROR: No arguments supplied

To run use
pWordCount.sh m word inputFile
Input:
number of processes/maps, EG, 4
word = a word in quotes, e.g., 'alice'
inputFile = a text input file
```

Run the following two cells to generate mapper and reducer files, then run the shell script again with arguments.¶

```
In [15]:
```

```
%%writefile mapper.py
#!/usr/bin/python
import sys
import re
count = 0

findword = sys.argv[1]
for line in sys.stdin:
    # count all occurances of the word in each line:
    count = count + line.lower().count(findword)
print count
```

Overwriting mapper.py

```
In [16]:
```

```
%%writefile reducer.py
#!/usr/bin/python
## Description: reducer code for HW1.2
import sys
import re
sum = 0

for line in sys.stdin:
    sum += int(line)

print sum
```

Overwriting reducer.py

Make the files executable:

```
In [17]:
```

```
!chmod a+x mapper.py
!chmod a+x reducer.py
```

Test the framework with parameters:

In [18]:

```
!./pWordCount.sh 4 'alice' 'alicesTExtFilename.txt'
```

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3. HW1.3 WordCount via Command Line Map Reduce Framework

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Dont forget to add a sort component to your MapReduce framework and leverage the sort order in your reduceer (i.e., there will be no need for a sort in reducer.py).

Write the mapper.py/reducer.py combination to perform WordCount using the command line mapreduce framework containing an alphabetical listing of all the words, and the number of times each occurs, in the text version of Alice's Adventures in Wonderland. (You can obtain a free plain text version of the book, along with many others, from http://www.gutenberg.org/cache/epub/11/pg11.txt) The first 10 lines of your output file should look something like this (the counts are not totally precise):

To do so, make sure of the following:

- That the mapper.py counts all occurrences of a single word
- In the pWordCount.sh, please insert a sort command to collate the output key-value pair records by key from the mappers. E.g., sort -k1,1. Use "man sort" to learn more about Unix sorts.
- reducer.py sums the count value from the collated records for each word. There should be no sort in the reducer.py

a	690
abide	2
able	1
about	102
above	3
absence	1
absurd	2
accept	1
acceptance	1
accepted	2

Here, mapper.py will read in a portion (i.e., a single record corresponding to a row) of the Alice in Wonderland data, count the number of occurences of the word in question and print/emit a count to the output stream. The reducer responsible for reading in counts of the word from the input stream, and summarizing them before printing that summary to the output stream. See example the notebook (notebook (notebook (notebook (notebook (notebook (<a href="https://nbviewer.jup

NOTE in your python notebook create a cell to save your mapper/reducer to disk using magic commands (see example here)

In [19]:

Overwriting mapper.py

In [20]:

```
%%writefile reducer.py
#!/usr/bin/python
# START STUDENT CODE HW13REDUCER
import sys
current word = None
current count = 0
word = None
for line in sys.stdin:
    # remove leading and trailing whitespaces
    line = line.strip()
    # parse the input we got from mapper.py
    word, count = line.split('\t', 1)
    # convert count (currently a string) to int
    try:
        count = int(count)
    except ValueError:
        # count was not a number, so silently
        # ignore/discard this line
        continue
    if current word == word:
        current_count += count
    else:
        if current_word:
            print '%s\t%s' % (current_word, current_count)
        current count = count
        current word = word
if current word == word:
    print '%s\t%s' % (current_word, current_count)
# END STUDENT CODE HW13REDUCER
```

Overwriting reducer.py

In the next cell use the Unix chmod command to change the permissions of the mapper/reducer using the following commands:

```
In [21]:
```

```
!chmod +x mapper.py;
!chmod +x reducer.py
```

Run the command below with 4 mappers. You should get the same result as in HW1.1.1.

In [22]:

!./pWordCount.sh 4 '*' 'alicesTExtFilename.txt'

a	690	
abide	2	
able	1	
about	102	
above	3	
absence	1	
absurd	2	
accept	1	
acceptar	nce	1
accepted	i	2
acceptir	ng	1
access	10	
accessed	i	1
accessi	ole	1
accident	;	2
accident	cally	1
accordar	nce	2
account	1	
accounti	ing	1
accounts		1
accusati	Lon	1
accustor		1
ache	1	
across	5	
act	1	
active	2	
actual	1	-
actually		1
ada	1	
added	23 1	
adding addition	_	1
addition		4
addition		1
address		_
address		2
addresse		1
addressi	_	1
adjourn	-	-
adoption		1
advance	3	_
advantag	re .	3
adventui		12
advice	2	
advisabl	Le	2
advise	1	
affair	1	
affection	onately	1
afford	1	
afore	1	
afraid	12	
after	43	
afterwar	ds	2
again	83	
against	10	
age	4	
aged	1	
agent	1	
ago	2	
agony	1	
agree	11	

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agreed
         1
agreement
                  18
ah
         5
         1
ahem
air
         15
airs
         1
         1
ak
alarm
         2
alarmed 1
alas
         403
alice
alive
         3
all
         200
allow
         4
almost
         8
alone
         5
along
         6
         5
aloud
already 3
also
alteration
                 1
altered 1
alternate
                 1
alternately
                 1
                  5
altogether
always
         13
         16
am
ambition
                 1
among
         12
an
         61
ancient 1
and
         940
         2
anger
angrily 9
angry
         5
animal
         2
animals 4
ann
annoy
         1
annoyed 1
another 22
answer
answered
                  4
answers 1
antipathies
                  1
anxious 3
                  14
anxiously
         76
any
anyone
         5
anything
                 22
anywhere
                  3
appealed
                  1
appear
         3
                  1
appearance
                  8
appeared
                  2
appearing
appears 1
                  1
applause
apple
         1
apples
         2
                 3
applicable
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apply	1	
approach	า	1
arch	1	
archbish	nop	2
arches	4	
archive	13	
are	73	
argue	1	
argued	1	
_	_	4
argument		
argument	_	1
arise	1	_
arithmet		1
arm	15	
arms	6	
around	3	
arranged	f	1
array	1	
arrived	1	
arrow	1	
arrum	1	
as	274	
ascii		
	2	
ashamed	2	
ask	11	
askance	1	
asked	17	
asking	5	
asleep	8	
assemble	ed	2
assistar	nce	1
associat	ced	8
at	227	
ate	1	
atheling		1
		1
atom	2	1
attached		1
attempt		_
attempte		1
attempts	5	1
attended	f	1
attendir	ng	3
attends	1	
audibly	1	
australi	ia	1
author	1	
authorit	- v	2
availabl	_	2
avoid	1	_
	_	
away	28	
awfully	1	
axes	1	
axis	1	
b	3	
baby	14	
back	39	
backs	1	
bad	2	
bag	1	
baked	1	
	4	1
balanced		

balls 1 bank 3 banks 1 banquet 1 bark 2 barking 1 barley 1 barrowful 2 based bat 3 bathing 1 bats bawled 1 be 167 beak 1 2 bear beast 1 2 beasts beat 4 beating 2 4 beau beauti 1 beautiful 13 beautifully 2 beautify 1 became because 16 become 5 1 becoming bed 1 beds 2 bee 1 38 been before 40 beg 8 began 58 begged 1 begin 13 beginning 15 begins begun 7 behead 1 beheaded 3 beheading 1 behind 13 being 19 believe 9 believed 1 bells 1 belong 1 belongs 2 beloved 1 below 6 belt 1 bend 2 bent 1 besides 4 best 12 better 14 between 6 bill 17

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binary
         1
bird
         2
birds
         10
                  1
birthday
bit
         16
bite
         2
bitter
         1
blacking
                  1
blades
         1
blame
         1
blasts
         2
bleeds
         1
blew
         2
         2
blow
blown
         1
blows
         1
body
         2
boldly
         1
bone
         1
bones
         1
book
         11
books
         2
boon
         1
boots
         4
bore
         1
both
         16
bother
         1
bottle
         10
bottom
         4
bough
         1
bound
         3
         4
bowed
bowing
         1
box
         10
boxed
         1
         3
boy
brain
         1
branch
         1
                  2
branches
brandy
brass
         1
brave
         1
breach
         2
         7
bread
break
         2
breath
breathe 3
breeze
         1
bright
         8
brightened
                  2
bring
                  3
bringing
bristling
                  1
broke
broken
         6
brother 1
brought 3
         2
brown
brush
         1
brushing
                  1
burn
```

burning	1	
burnt	1	
burst	1	
		1
bursting		1
busily	4	_
business	5	9
busy	2	
but	175	
butter	9	
butterc	ın	1
	_	1
buttered		
butterf		1
buttons	1	
by	78	
bye	2	
c	6	
cackled	1	
cake	3	
cakes	3	
calculat	te	1
calculat	ted	1
call	9	
called	15	
calling	1	
calmly	1	
came	40	
camomile	9	1
can	73	
canary	1	
	3	
candle		
cannot	5	
canterbu	ıry	1
canvas	1	
capering	7	1
capital		
card	1	
		1
cardboar		1
cards	3	
care	4	
careful	Ly	3
cares	2	
carried		
carrier		
carroll	4	
carry	2	
carrying	3	2
cart	1	
cartwhee	els	1
case	5	
cat	37	
	4	
catch	-	_
catching		2
caterpi	llar	28
cats	13	
cattle	1	
caucus	3	
caught	3	
	-	2
cauldro		2
cause	5	
caused	2	
cautious	sly	3
	_	

cease 1	
ceiling 1	
centre 1	
certain 5	
certainly	14
chain 1	14
chair 1	
chance 4	
chanced 1	
change 15	
changed 8	
changes 2	_
changing	2
chapter 12	_
character	2
charge 6	
charges 2	
charitable	1
charities	1
chatte 1	
cheap 1	
cheated 1	
check 2	
checked 3	
checks 1	
cheeks 1	
cheered 3	
cheerfully	1
cherry 1	
cheshire	7
chief 2	
child 11	
childhood	1
children	10
chimney 6	
chimneys	1
chin 7	-
choice 2	
choice 2	
choked 3	
choked 5	
	1
choosing	1
chop 1	
chorus 6	
chose 2	_
christmas	1
chrysalis	1
chuckled	1
circle 1	
circumstances	1
city 1	
civil 3	
claim 1	
clamour 1	
<pre>clamour 1 clapping</pre>	1
0_0	1
clapping	1
clapping clasped 1	
clapping clasped 1 classics	

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clear
        2
cleared 1
clearer 1
clearly 2
clever
climb
        1
                 1
clinging
clock
        5
close
        13
closed
        2
closely 1
closer
        1
clubs
        1
coast
        1
coaxing 2
codes
        1
coils
cold
        1
collar
        1
                 2
collected
                 4
collection
come
        47
comes
        2
comfits 2
comfort 1
comfortable
                 1
                 1
comfortably
coming 9
commercial
                 1
committed
                 1
common
commotion
                 1
company 1
compilation
                 1
complained
                 1
complaining
                 1
completely
                 1
compliance
                 5
comply 6
complying
                 3
compressed
                 1
computer
                 2
                 2
computers
concept 2
                 2
concerning
concert 2
                 2
concluded
                 2
conclusion
condemn 1
conduct 1
confirmation
                 1
confirmed
                 1
confused
                 4
confusing
                 3
confusion
                 5
conger
                 2
conqueror
conquest
                 1
consented
                 1
consequential
                 1
consider
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consider		2
consider	red	3
consider	ring	3
constant	5	3
consulta	ation	1
contact	4	
contain	2	
containi	ing	1
contempt	5	1
contempt	cuous	1
contempt	cuously	2
content	1	
continue	ed	9
contract	-	1
contradi	icted	1
contribu	utions	2
conversa	ation	
conversa		9 2
convert	1	
cook	13	
cool	2	
copied	2	
copies	7	
сору	12	
copying	4	
copyrigh	_	14
corner	4	
corners	1	
corporat	=	1
corrupt	1	_
cost	4	
costs	2	
could	78	
couldn	9	
counting	-	1
countrie		1
	3	1
country	1	
couple	1	
couples	3	
courage		
course	27 18	
court		2
courtie		2
coward	1	
crab	3	
crash	3	
crashed	1	
crawled	1	
crawling		1
crazy	1	
created	2	4
creating		4
creation		1
creature		4
creature		10
credit	1	
creep	1	
crept	1	
cried	20	
cries	1	
crimson	2	

critical crocodile croquet 9 croqueted croqueting cross 3 crossed 3 crossly 1 crouched crowd 4 crowded 5 crown 3 crumbs 4 crust 1 cry 3 crying 2 cucumber 2 cunning 1 cup 2 cupboards 2 cur 1 curiosity 5 curious 19 curiouser 2 curled 2 curls 1 curly 1 currants 1 current 1 curtain 1 curtseying 1 curtseying 1 curtseying 1 curtseying 1 curtseying 1 curtseying 1 curting 1 dustody 2 cut 5 cutting 1 daisies 1 daisies 1 daisy 1 damage 2 damaged 1 damages 4 dance 13 dancing 2 dare 5 daresay 1 dark 3 darkness 1 data 1 date 4 dates 1 daughter 1 day 29 days 8 dead 4 deal 12 dear 29 days 8 dead 4 deal 12 dear 29 days 8 dead 4 deal 12 dear 29	crocodile croquet 9 croqueted 1 croqueting 1 cross 3 crossed 3 crossly 1 crouched 1 crowd 4 crowded 5 crown 3 crumbs 4 crust 1 cry 3 crying 2 cucumber 2 cunning 1 cup 2 cupboards 2 cur 1 curiosity 5 curious 19 curiouser 2 curled 2 curls 1 current 1 current 1 current 1 curtain 1 curtsey 1 curtseying 1 curtseying 1 curtseying 1 curtseying 1 curtseying 1 curting 1 dushion 2 custard 1 custody 2 cut 5 cutting 1 daisies 1	3/2017		
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haste	1	
hastily	16	
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information	8
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intellectual	2
interest	1
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morals 1 morcar 2 50 more morning 5 morsel 1 most 11 2 mostly mournful 1 1 mournfully 44 mouse 10 mouth mouths 4 move 3 5 moved moving 3 52 much muchness 3 muddle 1 multiplication 1 murder 1 1 murdering muscular 1 mushroom 8 music 54 must mustard 3 2 muttered 3 muttering my 58 myself 7 mystery 2 name 11 named 1 2 names narrow 2 nasty 1 natural 4 natured 1 naturedly 1 nay near 15 nearer 5 nearly 13 neat 1 neatly 2 necessarily 1 neck 7 need 1 needn 3 needs 1 negligence 1 neighbour 1 neighbouring 1 neither 2 nervous 5 nest 1 network 1 never 48 nevertheless 1 new 8 1 newby

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pigeon	12	
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pink	1	
piteous	1	
pitied	1	
pity	3	
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plain	2	
plainly	1	
plan	4	
planning	3	1
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players playing pleaded pleasant pleasant please	1 4 2 3 cer 22	
players playing pleaded pleasant please please pleased	1 4 2 3 cer 22 7	
players playing pleaded pleasant please please pleased pleases	1 4 2 3 5 5 6 7 1	1
players playing pleaded pleasant please pleased pleases pleasing	1 4 2 3 5 5 6 7 1	1
players playing pleaded pleasant pleasant please pleased pleases pleasing pleasure plenty	1 4 2 3 cer 22 7 1	1
players playing pleaded pleasant please pleased pleases pleasing pleasure plenty pocket	1 4 2 3 5 cer 22 7 1	1
players playing pleaded pleasant please pleased pleases pleasing pleasure pleaty pocket pointed	1 4 2 3 cer 22 7 1 8 2 7	1 1 2
players playing pleaded pleasant pleasant please pleased pleases pleasing pleasure plenty pocket pointed pointing	1 4 2 3 5 5 6 2 7 1 9 2 7	1
players playing pleaded pleasant please pleased pleases pleasure pleasure plenty pocket pointed pointing	1 4 2 3 5 5 6 2 7 1 8 2 7 1	1 1 2
players playing pleaded pleasant please pleased pleases pleasure pleasure plenty pocket pointed pointing poison poker	1 4 2 3 3 5 5 6 2 7 1 8 9 2 7 1 9 3 1	1 1 2
players playing pleaded pleasant please pleased pleases pleasing pleasure pleaty pocket pointed pointing poison poker poky	1 4 2 3 5 5 6 2 7 1 8 2 7 1 8 3 1	1 1 2
players playing pleaded pleasant pleasant please pleased pleases pleasing pleasure pleaty pocket pointed pointing poison poker poky politely	1 4 2 3 5 cer 22 7 1 5 2 7 1 5 3 1	1 1 2
players playing pleaded pleasant please pleased pleases pleasing pleasure pleaty pocket pointed pointing poison poker poky politely pool	1 4 2 3 5 5 6 2 7 1 8 9 3 1 1 1	1 1 2
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players playing pleaded pleasant please pleased pleases pleasing pleasure pleaty pocket pointed pointing poison poker poky politely pool	1 4 2 3 5 5 6 2 7 1 8 9 3 1 1 1	1 1 2

pope

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prevent 2 previous principal print 1 printed 3	1
prison 1 prisoner prize 1 prizes 5 problem 1	2
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promotion pronounced	1
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proper 3	-
property	2
proposal	1
proprietary	1
prosecute	1
protect 2	
protection	1
proud 2	
prove 1	
proved 2	
proves 2	
provide 7	
provided	4
providing	4
provision	1
provisions	1
provoking	1
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pun 1	
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puss 1	
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putting 3	
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quadrille	4
quarrel 1	
quarrelled	1
quarrelling	2
queen 75	
queens 1	
queer 12	
queerest	1
question	17
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quicker 1	
quickly 2	
quiet 2	
quietly 5	
quite 55 quiver 1	
quiver 1 rabbit 51	
rabbits 1	
race 6	
railway 2	
raised 2	

raising 1

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reminding	1
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removed 4	
renamed 1	
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repeating	3
replace 1	
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research	2
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respectable	1
respectful	1
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restrictions	2
result 1	
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return 3	
returned	2
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returns 1	
revenue 1	
rich 1	
riddle 1	
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ridges 1	
ridiculous	1
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righthand	1
rightly 1	
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ringlets	2
riper 1	
rippling	1
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roared 1	
roast 1	
rock 1	
rocket 1	
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roof 6	
room 13	
roots 2	
rope 1	

4 rose roses 3 rosetree 1 roughly 1 round 41 row 2 2 royal royalties 2 royalty 3 rubbed rubbing 2 rude 2 rudeness 1 5 rule 5 rules rumbling 1 run running 8 rush 2 rushed 1 rustled 1 rustling 1 219 s sad 3 sadly 5 2 safe 1 sage said 462 salmon 1 salt 3 same 25 sand 1 sands 1 2 sang sat 17 1 saucepan saucepans 1 saucer savage 4 save 1 1 saves saw 14 51 say saying 15 says 4 scale 1 scaly 1 scattered 1 school 6 schoolroom 1 scolded 1 scrambling 1 scratching 1 scream screamed 4 screaming 1 scroll 2 14 sea seals 1 seaography 1 search

seaside 1 seated second 6 2 secondly secret 1 section 7 1 sections secure 70 see seeing 1 8 seem seemed 27 seems 5 15 seen seldom 1 2 sell send 2 sending 3 sends 1 2 sensation sense 3 3 sent 8 sentence sentenced 1 series seriously 1 serpent 9 serpents 3 service 1 set 23 setting 1 settle 1 settled 3 1 settling seven 6 several 5 4 severely severity 1 2 sh shade 1 shake 1 shakespeare 1 shaking 3 shall 27 shan 6 shape 1 shaped 3 2 share 2 shared sharing 2 shark 1 sharks 1 sharp 6 sharply 4 she 553 1 shedding sheep shelves 2 shepherd 1 shifting 1 shilling 1

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simpleton
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simply
         3
since
         4
sing
         6
singers 2
singing 2
sink
         1
sir
         7
sister
         9
sisters 2
sit
         8
         4
site
sits
         1
sitting 10
six
         2
sixpence
                  1
                  1
sixteenth
```

size 13 sizes 1 skimming 1 skirt skurried 1 sky 5 slate 4 slates 8 sleep 6 5 sleepy slightest 1 slipped 3 slippery 1 slowly 8 sluggard 1 small 12 smaller 3 smallest 2 smile smiled 2 smiling 2 1 smoke smoking 2 snail 3 snappishly 1 snatch 2 sneeze sneezed 1 sneezes 2 sneezing 6 1 snorting snout 1 152 so sob 1 sobbed 1 sobbing 3 sobs 4 soft 1 softly 1 soldier 1 soldiers 10 solemn 4 solemnly soles solicit 2 solicitation 1 solid 1 some 52 somebody 7 somehow 1 someone 1 somersault 2 something 18 sometimes 5 somewhere 3 son 1 7 song 7 soo 25 soon sooner 2 1 soothing

```
sorrow
         2
sorrowful
                 2
sorrows 1
sorry
         1
         20
sort
sorts
         3
         4
sound
sounded 5
sounds
         18
soup
sour
         1
spades
         1
speak
         15
speaker 1
                 5
speaking
special 1
specific
                 1
                 2
specified
                 3
spectacles
speech
         3
speed
         1
spell
         1
spirited
                 1
spite
splash
         1
splashed
                 1
                 2
splashing
splendidly
                 1
spoke
         17
spoken
         1
spoon
         2
spot
         1
                 1
sprawling
spread
        4
spreading
                 1
squeaked
                 1
squeaking
                 2
squeeze 1
squeezed
                 1
staff
stairs
         3
stalk
         1
                 2
stamping
stand
standing
                 1
star
staring 3
start
         3
started 2
startled
                 2
state
                 1
statements
states
station 1
status
         4
         5
stay
stays
         1
steady
         1
steam
         1
sternly 1
stick
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sticks
         1
stiff
         1
stigand 1
still
         13
stingy
         1
                 2
stirring
                 1
stockings
stole
stolen
         1
stood
         7
stool
         1
         2
stoop
stop
         6
stopped 3
                 1
stopping
stored
        1
story
         8
                 2
straight
straightened
                 1
straightening
                 1
strange 5
                 1
strength
stretched
                 2
stretching
                 2
strict
strings 1
struck
stuff
stupid
         6
stupidest
                 1
stupidly
                 1
subdued 1
subject 7
subjects
                 1
submitted
                 1
subscribe
                 1
succeeded
                 3
such
         47
sudden
         5
suddenly
                 13
suet
         1
sugar
         2
         3
suit
sulkily 2
sulky
         3
summer
         2
         2
sun
         1
supple
support 4
suppose 14
suppress
                 1
suppressed
                 4
sure
         24
                 5
surprise
surprised
                 7
survive 1
swallow 1
swallowed
                 1
swallowing
                 1
swam
         5
swamp
```

sweet 1 5 swim swimming 2 synonymous 1 218 t table 18 9 tail tails 3 take 22 taken 4 3 takes 5 taking tale 4 tales 1 talk 14 talking 17 taller 2 tart 1 7 tarts 2 taste tasted 3 tastes 1 4 taught tax 6 taxes 1 tea 19 1 teaching teacup 3 teacups 2 teapot 1 tears 11 1 teases teeth 1 3 telescope telescopes 1 tell 32 telling 2 tells 2 temper 5 tempered 2 ten 6 terms 1 terribly terrier 1 terror 1 than 26 thank 4 thanked 1 that 330 thatched 1 the 1818 their 52 theirs 1 them 88 themselves 3 then 94 there 101 therefore 1 these 17 they 155 thick 1

```
thimble 4
thin
         1
thing
         49
things
         33
think
         53
thinking
                 11
thirteen
                  1
thirty
         1
this
         181
thistle 2
                 2
thoroughly
those
         11
though
         11
thought 74
thoughtfully
                  4
thoughts
                 2
thousand
                  2
three
         28
threw
         2
throat
         2
throne
         1
through 16
throughout
                 1
throw
                 2
throwing
thrown
thump
thunder 1
thunderstorm
                 1
thus
         1
tide
         1
tidy
         1
tie
         1
tied
         1
tight
         1
till
         21
tillie
         1
         71
time
times
         6
timid
         3
timidly 9
tinkling
                 1
tiny
         4
tipped
         1
tiptoe
         2
tired
         7
tis
         5
title
         1
tittered
                  1
tm
         57
to
         809
toast
         1
today
         1
toes
         3
toffee
         1
                 9
together
told
         6
                 1
tomorrow
         40
tone
tones
         2
tongue
```

26 too took 24 top 8 tops 1 3 tortoise 1 toss tossing 3 touch 1 tougher 1 towards 1 toys 1 trademark 11 trampled 1 1 transcribe transcription 1 traps 1 tray 1 treacle 7 2 treading treat 1 treated 1 1 treatment tree 8 trees 7 tremble 1 2 trembled 6 trembling tremulous 1 trial 10 trials 1 1 trickling tricks 1 tried 19 trims 1 triumphantly 2 trot 2 trotting trouble 6 true trumpet 3 trusts truth 1 1 truthful 12 try trying 14 tucked 3 tulip 1 tumbled 1 2 tumbling tunnel 1 tureen 1 turkey 1 turn 11 turned 16 turning 12 turns 3 turtle 59 turtles 2 2 tut twelfth 1 twelve

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twentieth
                 1
twenty
twice
        5
twinkle 8
twinkled
                 1
twinkling
                 4
twist
two
        40
        1
txt
        1
types
        3
u
        2
ugh
uglification
                 2
uglify
                 1
uglifying
ugly
unable
        1
uncivil 1
uncomfortable
                 4
uncomfortably
                 1
uncommon
                 1
uncommonly
                 1
uncorked
                 1
under
underneath
                 1
understand
                 7
understood
                 1
undertone
                 2
undo
undoing 1
                 2
uneasily
uneasy 1
unenforceability
                          1
unfolded
                 2
unfortunate
                 3
unhappy 2
uniform 1
unimportant
                 5
united
        10
unjust
        1
unless
unlink
        1
                 1
unlocking
unpleasant
                 2
unrolled
                 2
unsolicited
                 1
until
untwist 1
unusually
                 1
unwillingly
                 1
up
        103
updated 2
upon
        28
upright 1
upset
        3
upsetting
                 1
upstairs
                 1
        15
us
        31
use
used
        16
useful
```

user 3 using 6 5 usual usually 2 usurpation 1 ut 1 1 utf 1 1 vaque vanilla 2 vanished 4 vanishing 1 variations 1 variety 1 various 2 44 ve vegetable 1 velvet venture 3 ventured 4 verdict 4 verse verses 4 version 1 very 145 vi 1 viewed 1 viewing 1 1 vii viii 1 vinegar 1 violates 1 violence 1 violent 2 violently 4 virus 1 visit 3 voice 48 voices 3 void 1 volunteer 1 volunteers 6 vote 1 vulgar 1 1 W 1 wag waqs 1 waist 1 2 waistcoat wait 1 waited 11 waiting 9 wake walk 5 walked 10 walking 5 walks 1 walrus 1 wander 1 wandered 2 2 wandering

9 want wanted 4 2 wants warning 1 3 warranties warranty 2 358 was wash 2 washing 3 wasn 11 waste 1 wasting 2 watch 8 watched 2 3 watching water 5 waters 1 waving 5 58 way ways 2 43 we weak 2 wearily 1 web 6 3 week weeks 1 welcome 1 well 63 went 83 wept 1 85 were 1 weren west 1 2 wet what 142 3 whatever 2 whatsoever when 80 2 whenever where whereupon 1 wherever 2 whether 11 which 56 while 26 whiles 1 whiskers 3 whisper 3 5 whispered whispers 1 whistle 1 whistling 1 white whiting 8 who 66 whoever 1 whole 13 2 whom whose 2 why 40 3 wide

```
wider
         1
widest
         2
wife
         1
         2
wiq
wild
         2
wildly
         2
         40
will
william 8
win
         1
wind
         2
window
         8
         2
wine
wings
         1
wink
         2
winter
         1
wise
         2
wish
         22
         228
with
within
         6
without 34
witness 10
wits
         1
woke
         1
woman
         2
         26
won
wonder
         18
wondered
                  1
wonderful
                  2
                  7
wondering
wonderland
                  8
wood
wooden
         1
word
         11
         21
words
wore
         1
work
         53
         33
works
world
         7
worm
         1
worried 1
worry
         1
worse
         3
         4
worth
would
         83
wouldn
         13
WOW
         6
wrapping
                  1
wretched
                  2
wriggling
                  1
write
         6
writhing
                  1
writing 9
written 9
         5
wrong
         3
wrote
         6
www
х
         1
         1
хi
xii
         1
yard
         1
         1
yards
```

yawned 2 yawning 2 1 ye 2 year 2 years yelled 1 yelp 1 4 yer 13 yes yesterday 3 25 yet 481 you young 71 your yours 10 yourself youth 6 zealand 1 zigzag zip 1

3. HW1.4 - Count words staring with uppercase and words starting with lowercase (This is an OPTIONAL HW)

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Change the mapper.py/reducer.py combination so that you get only the number of words starting with an uppercase letter, and the number of words starting with a lowercase letter for Alice in Wonderland available here (http://www.gutenberg.org/cache/epub/11/pg11.txt). In other words, you need an output file with only 2 lines, one giving you the number of words starting with a lowercase ('a' to 'z'), and the other line indicating the number of words starting with an uppercase letter ('A' to 'Z'). In the pWordCount.sh, please insert a sort command to collate the output key-value pair records by key from the mappers. E.g., sort -k1,1. Use "man sort" to learn more about Unix sorts.

In [23]:

```
%%writefile mapper.py
#!/usr/bin/python
import sys
import re
from collections import defaultdict
#for each document create dictionary of words
word cnts = defaultdict(int)
# START STUDENT CODE HW13MAPPER
for line in sys.stdin:
    #Upper case letters
    for word in re.findall(r'\b[A-Z][a-z]*\b',line):
        word cnts['upper'] += 1
    #lower case letters
    for word in re.findall(r'\b[a-z][a-z]*\b',line):
        word cnts['lower'] += 1
    # emit key-value pairs only for distinct words per document
for w in word cnts.keys():
        print '%s\t%s' % (w,word_cnts[w])
# END STUDENT CODE HW13MAPPER
```

Overwriting mapper.py

```
In [24]:
```

```
!./pWordCount.sh 4 '*' 'alicesTExtFilename.txt'
```

lower 26181 upper 3760

3. HW1.5 Bias-Variance (This is an OPTIONAL HW)

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Provide and example of bias variance in action for a similated function y = f(x). E.g., $y = \sin(x+x^2)$. Provide code, data, and graphs.

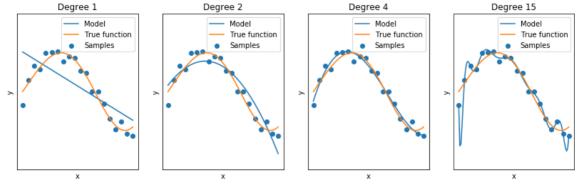
Using a bias-variance decomposition analysis on your choosen problem, describe how you would decide which model to choose when you dont know the true function and how does this choice compare to the choice you made using the true function.

In [25]:

```
import numpy as np
import matplotlib.pyplot as plt
from sklearn.preprocessing import PolynomialFeatures
from sklearn.linear model import LinearRegression
from sklearn.pipeline import Pipeline
np.random.seed(100)
# How many samples to generate. Try adjusting this value.
n \text{ samples} = 20
X = np.linspace(0, 1, n samples)
# Set the true function as a piece of a cosine curve.
true function = lambda x: np.sin(x + x*x + np.pi *x)
# Generate true y values.
y = true_function(X)
# Print the values of y to the nearest hundredth.
print ['%.2f' %i for i in y]
# Add random noise to y.
# The randn function samples random numbers from the standard Normal distributio
n.
# Multiplying adjusts the standard deviation of the distribution.
y += np.random.randn(n_samples) * 0.2
# Print the noise-added values of y for comparison.
print ['%.2f' %i for i in y]
X = X[:, np.newaxis]
print X.shape
['0.00', '0.22', '0.43', '0.63', '0.79', '0.92', '0.99', '1.00', '0.
94', '0.82', '0.63', '0.40', '0.13', '-0.16', '-0.44', '-0.68', '-0.
87', '-0.98', '-0.99', '-0.91']
['-0.35', '0.29', '0.66', '0.58', '0.99', '1.02', '1.03', '0.78',
 '0.90', '0.87', '0.54', '0.48', '0.01', '0.00', '-0.30', '-0.70',
 '-0.98', '-0.77', '-1.08', '-1.13']
(20, 1)
```

In [26]:

```
# Below, we'll fit polynomials to the noisy data with these degrees.
from sklearn.metrics import mean squared error
degrees = [1, 2, 4, 15]
# Initialize a new plot.
plt.figure(figsize=(14, 4))
# We'll create a subplot for each value of the degrees list.
for i in range(len(degrees)):
    # The subplots are all on the same row.
    ax = plt.subplot(1, len(degrees), i+1)
    # Turn off tick marks to keep things clean.
    plt.setp(ax, xticks=(), yticks=())
    # Set up the polynomial features preprocessor.
    polynomial features = PolynomialFeatures(degree=degrees[i],
                                              include bias=False)
    # Use the sklearn's Pipeline to string together 2 operations.
    linear regression = LinearRegression()
    pipeline = Pipeline([("polynomial_features", polynomial_features),
                          ("linear regression", linear regression)])
    pipeline.fit(X, y)
    # Show samples from the fitted function.
    X \text{ test} = \text{np.linspace}(0, 1, 100)
    plt.plot(X_test, pipeline.predict(X_test[:, np.newaxis]), label="Model")
    # Show the true function.
    plt.plot(X test, true function(X test), label="True function")
    # Show the original noisy samples.
    plt.scatter(X, y, label="Samples")
    # Add a few more labels to the plot.
    plt.xlabel("x")
    plt.ylabel("y")
    plt.xlim((-.05, 1.05))
    plt.ylim((-2, 2))
    plt.legend(loc="best")
    plt.title("Degree %d" % degrees[i])
# Render the plots.
plt.show()
```



Understanding overfitting and underfitting

Model performs much better with 4 degree but after that it overfits.

While with just degree 1 model has wrong assumptions and it under fits i. e. high bias errors