Введение в стеганографию

Цель работы

Произвести скрытое встраивание одного сообщения внутрь другого разными способами. Ознакомиться на практике с простейшими вариантами алгоритмов стеганографического встраивания и их характеристиками.

Содержание работы

1. Представить текст сообщения в виде последовательности бит:

· преобразовать каждый символ сообщения в число, содержащее код этого символа в используемой в вашей среде кодировке;

· Преобразовать код символов вашего сообщения в двоичное представление.

2. Реализовать простейшую операцию стеганографического встраивания текста в текст:

· прочитать содержимое текстовых файлов -- будущего контейнера скрытого сообщения и самого скрытого сообщения;

· модифицировать число пробелов текста-контейнера в соответствии с побитовым представлением встраиваемого текста: если первый бит встраиваемого текста -- 0, между первыми двумя словами текста контейнера сделать один пробел, если 1 -- то два и так далее, пока не будет записано все сообщение или не кончится контейнер;

· в качестве окончания сообщения используйте символ или набор символов, которые заведомо не встретятся в вашем скрываемом тексте;

· записать результат в текстовый файл.

3. Реализовать обратную операция чтения встроенного сообщения из текстового файла-контейнера.

4. Рассчитать энтропию содержимого строки текста по формуле

где pi -- вероятность появления данной буквы в строке, N -- длина строки, а pi = ki/ N, где ki -- число появлений данного символа в строке.

Можно воспользоваться встроенными функциями расчета энтропии в вашей среде.

5. Оценить ограничения встраивания для трех разных файлов контейнеров:

· Какого максимального размера (кол-во символов) скрытый текст поместится в ваш контейнер;

Выведите общее соотношение доли максимально длинного скрытого сообщения, помещающегося в данный контейнер при использовании данного подхода встраивания, по отношению к размеру контейнера;

· заполнить таблицу:

1. Провести эксперименты с тремя различными файлами-контейнерами и тремя разными скрытыми сообщениями и заполнить таблицу (для каждого файла-контейнера при этом проводится по три эксперимента с каждым из трех встраиваемых сообщений):

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Имя файла контейнера** | **Имя файла встраиваемого сообщения** | **Размер контейнера** | **Размер скрытого сообщения** | **Размер контейнера после страивания** | **Энтропия до встриавания** | **Энтропия после встраивания** |
| Texted1.txt | Hid\_text1 | 3323 | 12 | 2823 | 4.34 | 4.52 |
| Texted1.txt | Hid\_text2 | 3323 | 17 | 2870 | 4.34 | 4.52 |
| Texted1.txt | Hid\_text3 | 3323 | 90 | 3629 | 4.34 | 4.136 |
| Texted2.txt | Hid\_text1 | 5950 | 12 | 4832 | 4.45 | 4.64 |
| Texted2.txt | Hid\_text2 | 5950 | 17 | 4979 | 4.457 | 4.647 |
| Texted2.txt | Hid\_text3 | 5950 | 90 | 5738 | 4.45 | 4.48 |
| Texted3.txt | Hid\_text1 | 4350 | 12 | 3675 | 4.349 | 4.55 |
| texted3.txt | Hid\_text2 | 4350 | 17 | 3722 | 4.34 | 4.548 |
| Texted3.txt | Hid\_text3 | 4350 | 90 | 4481 | 4.349 | 4.288 |

7. Модифицировать алгоритм встраивания

· теперь, если первый бит скрытого сообщения -- 1, то добавляется один пробел случайно к одному из первых пяти пробелов (между первыми шестью словами) в тексте контейнера, если 0, то между первыми шестью словами текста контейнера остается по одному пробелу.

· Реализовать также чтение скрытого сообщения.

· Заполнить еще раз таблицы из пунктов 5 и 6, и

· вывести общее соотношение доли максимально длинного скрытого сообщения, помещающегося в данный контейнер при использовании данного подхода встраивания, по отношению к размеру контейнера.

|  |  |  |  |
| --- | --- | --- | --- |
| Имя файла контейнера | Размер контейнера (число символов) | Максимальный размер встриваемого сообщения | Энтропия |
| Text1 | 50 | 3 | 4.599 |
| Text2 | 100 | 2 | 4.66 |
| Text3 | 3084 | 95 | 5.1850 |
| Text4 | 13320 | 481 | 5.175 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Имя файла контейнера** | **Имя файла встраиваемого сообщения** | **Размер контейнера** | **Размер скрытого сообщения** | **Размер контейнера после страивания** | **Энтропия до встриавания** | **Энтропия после встраивания** |
| Texted1.txt | Hid\_text1 | 3323 | 12 | 2271 | 4.34 | 4.29 |
| Texted1.txt | Hid\_text2 | 3323 | 17 | 3187 | 4.34 | 4.28 |
| Texted1.txt | Hid\_text3 | 3323 | 90 | 3369 | 4.342 | 4.28 |
| Texted2.txt | Hid\_text1 | 5950 | 12 | 2320 | 4.45 | 4.25 |
| Texted2.txt | Hid\_text2 | 5950 | 17 | 3243 | 4.457 | 4.27 |
| Texted2.txt | Hid\_text3 | 5950 | 90 | 5988 | 4.457 | 4.39 |
| Texted3.txt | Hid\_text1 | 4350 | 12 | 2227 | 4.349 | 4.27 |
| texted3.txt | Hid\_text2 | 4350 | 17 | 3164 | 4.34 | 4.29 |
| Texted3.txt | Hid\_text3 | 4350 | 90 | 4437 | 4.349 | 4.3 |

**Выполнение**

**Код**

from itertools import zip\_longest

from re import split

import random

import re

import math

import time

#функция для чтения из файла

def readFile(name):

    file=open(name)

    text = file.read()

    file.close()

    return text

#функция для запись в файл вектора

def writeFile(text, name):

    file=open(name, 'w')

    file.write(text)

    file.close()

def text\_to\_bin(text):

  return ' '.join(format(ord(x), 'b') for x in text)

def embed(content, text):

  cont = content.split()

  mes = text\_to\_bin(text).replace(" ", "")

  res=''

  for word, symbol in zip\_longest(cont, mes):

    #print(word)

    #print(symbol)

    res+=word+''

    if symbol == '1':

        res +='  '

    elif symbol == '0':

        res +=' '

    if (word is None):

        break

  return res

def new\_embed(content, text):

  cont = content.split()

  mes = text\_to\_bin(text).replace(" ", "")

  res=''

  for i in range(len(mes)):

    symbol\_change = random.randrange(i\*5, (i+1)\*5)

    if symbol\_change<=len(cont):

        if mes[i] == '1':

          for j in range(i\*5, min(len(cont), (i+1)\*5)):

            res += cont[j]+' '

            if j == symbol\_change:

              res += " "

        elif mes[i] == '0':

          for j in range(i\*5, min(len(cont), (i+1)\*5)):

            res += cont[j]+' '

            if j == symbol\_change:

              res += ""

  return res

def new\_message\_from\_text(content):

    spaces = split('[^ ]', content)

    while spaces.count('') > 0:

        spaces.remove('')

    print(len(spaces))

    result = ''

    message = ''

    i = 0

    for i in range(0, len(spaces), 5):

      spaces\_slice = spaces[i:min(len(spaces), i + 5)]

      string\_spaces = ''.join(spaces\_slice)

      if len(string\_spaces)==5:

        message+='0'

      elif len(string\_spaces)==6:

        message+='1'

    return message

def message\_from\_text(content, text):

    spaces = split('[^ ]', content)

    while spaces.count('') > 0:

        spaces.remove('')

    #print(spaces)

    result = ''

    message = ''

    i = 0

    for space in spaces:

      if space == ' ':

        message += '0'

      else:

        message += '1'

    new\_text = re.sub('([^ ]{7})', r'\1 ', message)

    new\_text = new\_text.replace('  ', ' ')

    return new\_text

def entropy(text):

  res=0

  symbols = "".join(set(text))

  p = [text.count(symb)/len(text) for symb in symbols]

  symb\_ch = {symbols[i]: p[i] for i in range(0, len(p))}

  x=0

  for symb in symbols:

    x += symb\_ch[symb]\*math.log2(1/symb\_ch[symb])

  return x

def get\_data(text):

    symbols = len(text)

    maxMessageLength = text.count(' ')

    entrop = entropy(text)

    print(' symbols - ' + str(symbols) +

    ', maxMessageLength - ' + str(maxMessageLength) +

    ',entropy - ' + str(entrop))

def get\_datas(cont, text):

  symbols\_con = len(cont)

  symbols\_text = len(text)

  len\_cont = len(new\_embed(cont, text))

  entrop1 = entropy(cont)

  entrop2 = entropy(new\_embed(cont, text))

  print(' Content - ' + str(symbols\_con) +

    ', hiddet message - ' + str(symbols\_text) +

    ',Content+hidden - ' + str(len\_cont)+

    ', entrop content - ' + str(entrop1)+

    ', entrop hidden - ' + str(entrop2))

text='ABSTH'

text\_bit =text\_to\_bin(text)

#print(text\_bit)

text\_cont = readFile('/content/drive/MyDrive/pyth/textpath/cript/text.txt')

enstr= embed(text\_cont, text)

#print(enstr)

writeFile(enstr, '/content/drive/MyDrive/pyth/textpath/cript/text\_embed.txt')

text\_cont = readFile('/content/drive/MyDrive/pyth/textpath/cript/text\_embed.txt')

strn= message\_from\_text(enstr, text)

#print(strn)

strin = entropy(text\_cont)

#print(strin)

text\_cont1 = readFile('/content/drive/MyDrive/pyth/textpath/text1.txt')

data1 = get\_data(text\_cont1)

print(data1)

text\_cont2 = readFile('/content/drive/MyDrive/pyth/textpath/text2.txt')

data2 = get\_data(text\_cont2)

print(data2)

text\_cont3 = readFile('/content/drive/MyDrive/pyth/textpath/text3.txt')

data3 = get\_data(text\_cont3)

print(data3)

text\_cont4 = readFile('/content/drive/MyDrive/pyth/textpath/text4.txt')

data4 = get\_data(text\_cont4)

print(data4)

hid\_text1 = 'twelve balls'

hid\_text2= 'being prodded and'

hid\_text3 = 'One small hand closed on the letter beside him and he slept on, not knowing he was special'

for i in range(1, 4):

  text\_cont = readFile(f'/content/drive/MyDrive/pyth/textpath/cript/texted{i}.txt')

  get\_datas(text\_cont, hid\_text1)

  #print(len(text\_cont))

  #print(len(embed(text\_cont, hid\_text1)))

text\_cont56 = readFile('/content/drive/MyDrive/pyth/textpath/cript/text.txt')

enstrin= new\_embed(text\_cont56, text)

print(enstrin)

gh = new\_message\_from\_text(enstrin)

print(gh)

1.

text='ABSTH'

text\_bit =text\_to\_bin(text)

print(text\_bit)

Вывод: 1000001 1000010 1010011 1010100 1001000

2.

Исходный текст-контейнер

Maps allow us to transform data in a DataFrame or Series one value at a time for an entire column. However, often we want to group our data, and then do something specific to the group the data is in.

Текст с встроенным сообщением:

Maps allow us to transform data in a DataFrame or Series one value at a time for an entire column. However, often we want to group our data, and then do something specific to the groupthedataisin.

def embed(content, text):

  cont = content.split()

  mes = text\_to\_bin(text).replace(" ", "")

  res=''

  for word, symbol in zip\_longest(cont, mes):

    res+=word

    if symbol == '1':

        res +='  '

    elif symbol == '0':

        res +=' '

    if word is None:

        break

  return res

text\_cont = readFile('/content/drive/MyDrive/pyth/textpath/cript/text.txt')

enstr= embed(text\_cont, text)

print(enstr)

writeFile(enstr, '/content/drive/MyDrive/pyth/textpath/cript/text\_embed.txt')

3

def message\_from\_text(content, text):

    spaces = split('[^ ]', content)

    while spaces.count('') > 0:

        spaces.remove('')

    #print(spaces)

    result = ''

    message = ''

    i = 0

    for space in spaces:

      if space == ' ':

        message += '0'

      else:

        message += '1'

    new\_text = re.sub('([^ ]{7})', r'\1 ', message)

    new\_text = new\_text.replace('  ', ' ')

return new\_text

text\_cont = readFile('/content/drive/MyDrive/pyth/textpath/cript/text\_embed.txt')

strn= message\_from\_text(enstr, text)

print(strn)

Вывод 1000001 1000010 1010011 1010100 1001000

1. Энтропия текста

def entropy(text):

  res=0

  symbols = "".join(set(text))

  p = [text.count(symb)/len(text) for symb in symbols]

  symb\_ch = {symbols[i]: p[i] for i in range(0, len(p))}

  x=0

  for symb in symbols:

    x += symb\_ch[symb]\*math.log2(1/symb\_ch[symb])

  return x

strin = entropy(text\_cont)

print(strin)

Вывод 3.9980026840850407

5.

def get\_data(text):

    symbols = len(text)

    maxMessageLength = text.count(' ')

    entrop = entropy(text)

    print(' symbols - ' + str(symbols) +

    ', maxMessageLength - ' + str(maxMessageLength) +

    ',entropy - ' + str(entrop))

|  |  |  |  |
| --- | --- | --- | --- |
| Имя файла контейнера | Размер контейнера (число символов) | Максимальный размер встриваемого сообщения | Энтропия |
| Text1 | 50 | 3 | 4.599 |
| Text2 | 100 | 2 | 4.66 |
| Text3 | 3084 | 95 | 5.1850 |
| Text4 | 13320 | 481 | 5.175 |

6.

def get\_datas(cont, text):

  symbols\_con = len(cont)

  symbols\_text = len(text)

  len\_cont = len(embed(cont, text))

  entrop1 = entropy(cont)

  entrop2 = entropy(embed(cont, text))

  print(' Content - ' + str(symbols\_con) +

    ', hiddet message - ' + str(symbols\_text) +

    ',Content+hidden - ' + str(len\_cont)+

    ', entrop content - ' + str(entrop1)+

    ', entrop hidden - ' + str(entrop2))

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Имя файла контейнера** | **Имя файла встраиваемого сообщения** | **Размер контейнера** | **Размер скрытого сообщения** | **Размер контейнера после страивания** | **Энтропия до встриавания** | **Энтропия после встраивания** |
| Texted1.txt | Hid\_text1 | 3323 | 12 | 2823 | 4.34 | 4.52 |
| Texted1.txt | Hid\_text2 | 3323 | 17 | 2870 | 4.34 | 4.52 |
| Texted1.txt | Hid\_text3 | 3323 | 90 | 3629 | 4.34 | 4.136 |
| Texted2.txt | Hid\_text1 | 5950 | 12 | 4832 | 4.45 | 4.64 |
| Texted2.txt | Hid\_text2 | 5950 | 17 | 4979 | 4.457 | 4.647 |
| Texted2.txt | Hid\_text3 | 5950 | 90 | 5738 | 4.45 | 4.48 |
| Texted3.txt | Hid\_text1 | 4350 | 12 | 3675 | 4.349 | 4.55 |
| texted3.txt | Hid\_text2 | 4350 | 17 | 3722 | 4.34 | 4.548 |
| Texted3.txt | Hid\_text3 | 4350 | 90 | 4481 | 4.349 | 4.288 |

7.

def new\_embed(content, text):

  cont = content.split()

  mes = text\_to\_bin(text).replace(" ", "")

  res=''

  for i in range(len(mes)):

    symbol\_change = random.randrange(i\*5, (i+1)\*5)

    if symbol\_change<=len(cont):

        if mes[i] == '1':

          for j in range(i\*5, min(len(cont), (i+1)\*5)):

            res += cont[j]+' '

            if j == symbol\_change:

              res += " "

        elif mes[i] == '0':

          for j in range(i\*5, min(len(cont), (i+1)\*5)):

            res += cont[j]+' '

            if j == symbol\_change:

              res += ""

  return res

def new\_message\_from\_text(content):

    spaces = split('[^ ]', content)

    while spaces.count('') > 0:

        spaces.remove('')

    print(len(spaces))

    result = ''

    message = ''

    i = 0

    for i in range(0, len(spaces), 5):

      spaces\_slice = spaces[i:min(len(spaces), i + 5)]

      string\_spaces = ''.join(spaces\_slice)

      if len(string\_spaces)==5:

        message+='0'

      elif len(string\_spaces)==6:

        message+='1'

    return message

|  |  |  |  |
| --- | --- | --- | --- |
| Имя файла контейнера | Размер контейнера (число символов) | Максимальный размер встриваемого сообщения | Энтропия |
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|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Имя файла контейнера** | **Имя файла встраиваемого сообщения** | **Размер контейнера** | **Размер скрытого сообщения** | **Размер контейнера после страивания** | **Энтропия до встриавания** | **Энтропия после встраивания** |
| Texted1.txt | Hid\_text1 | 3323 | 12 | 2271 | 4.34 | 4.29 |
| Texted1.txt | Hid\_text2 | 3323 | 17 | 3187 | 4.34 | 4.28 |
| Texted1.txt | Hid\_text3 | 3323 | 90 | 3369 | 4.342 | 4.28 |
| Texted2.txt | Hid\_text1 | 5950 | 12 | 2320 | 4.45 | 4.25 |
| Texted2.txt | Hid\_text2 | 5950 | 17 | 3243 | 4.457 | 4.27 |
| Texted2.txt | Hid\_text3 | 5950 | 90 | 5988 | 4.457 | 4.39 |
| Texted3.txt | Hid\_text1 | 4350 | 12 | 2227 | 4.349 | 4.27 |
| texted3.txt | Hid\_text2 | 4350 | 17 | 3164 | 4.34 | 4.29 |
| Texted3.txt | Hid\_text3 | 4350 | 90 | 4437 | 4.349 | 4.3 |

Вывод: Размер контейнера слишком большой. Чтобы новым методом зашифровать один символ сообщения, нужно 36 слов. Для расшифровки нужно учитывать, что в оставшемся после шифровании контейнере также присутствуют одинарные пробелы как и в случае, когда бит = 0.

**Приложение**

Text.txt

Maps allow us to transform data in a DataFrame or Series one value at a time for an entire column. However, often we want to group our data, and then do something specific to the group the data is in.

Text\_embed.txt

Maps allow us to transform data in a DataFrame or Series one value at a time for an entire column. However, often we want to group our data, and then do something specific to the groupthedataisin.

Texted1.txt

The sun rose on the same tidy front gardens and lit up the brass number four on the Dursleys' front door; it crept into their living room

, which was almost exactly the same as it had been on the night when Mr. Dursley had seen that fateful news report about the owls. Only the photographs on the mantelpiece really showed how much time had passed. Ten years ago, there had been lots of pictures of what looked like a large pink beach ball wearing different-colored bonnets -- but Dudley Dursley was no longer a bab. The zoo director himself made Aunt Petunia a cup of strong, sweet tea while he apologized over and over again. Piers and Dudley could only gibber. As far as Harry had seen, the snake hadn't done anything except snap playfully at their heels as it passed, but by the time they were all back in Uncle Vernon's car, Dudley was telling them how it had nearly bitten off his leg, while Piers was swearing it had tried to squeeze him to death. But worst of all, for Harry at least, was Piers calming down enough to say, "Harry was talking to it, weren't you, Harry?"

Uncle Vernon waited until Piers was safely out of the house before starting on Harry. He was so angry he could hardly speak. He managed to say, "Go -- cupboard -- stay -- no meals," before he collapsed into a chair, and Aunt Petunia had to run and get him a large brandy.

Harry lay in his dark cupboard much later, wishing he had a watch. He didn't know what time it was and he couldn't be sure the Dursleys were asleep yet. Until they were, he couldn't risk sneaking to the kitchen for some food.

He'd lived with the Dursleys almost ten years, ten miserable years, as long as he could remember, ever since he'd been a baby and his parents had died in that car crash. He couldn't remember being in the car when his parents had died. Sometimes, when he strained his memory during long hours in his cupboard, he came up with a strange vision: a blinding flash of green light and a burning pain on his forehead. This, he supposed, was the crash, though he couldn't imagine where all the green light came from. He couldn't remember his parents at all. His aunt and uncle never spoke about them, and of course he was forbidden to ask questions. There were no photographs of them in the house.

When he had been younger, Harry had dreamed and dreamed of some unknown relation coming to take him away, but it had never happened; the Dursleys were his only family. Yet sometimes he thought (or maybe hoped) that strangers in the street seemed to know him. Very strange strangers they were, too. A tiny man in a violet top hat had bowed to him once while out shopping with Aunt Petunia and Dudley. After asking Harry furiously if he knew the man, Aunt Petunia had rushed them out of the shop without buying anything. A wild-looking old woman dressed all in green had waved merrily at him once on a bus. A bald man in a very long purple coat had actually shaken his hand in the street the other day and then walked away without a word. The weirdest thing about all these people was the way they seemed to vanish the second Harry tried to get a closer look.

At school, Harry had no one. Everybody knew that Dudley's gang hated that odd Harry Potter in his baggy old clothes and broken glasses, and nobody liked to disagree with Dudley's gang.

Texted2.txt

The Dursleys had everything they wanted, but they also had a secret, and their greatest fear was that somebody would discover it. They didn't think they could bear it if anyone found out about the Potters. Mrs. Potter was Mrs. Dursley's sister, but they hadn't met for several years; in fact, Mrs. Dursley pretended she didn't have a sister, because her sister and her good-for-nothing husband were as unDursleyish as it was possible to be. The Dursleys shuddered to think what the neighbors would say if the Potters arrived in the street. The Dursleys knew that the Potters had a small son, too, but they had never even seen him. This boy was another good reason for keeping the Potters away; they didn't want Dudley mixing with a child like that. When Mr. and Mrs. Dursley woke up on the dull, gray Tuesday our story starts, there was nothing about the cloudy sky outside to suggest that strange and mysterious things would soon be happening all over the country. Mr. Dursley hummed as he picked out his most boring tie for work, and Mrs. Dursley gossiped away happily as she wrestled a screaming Dudley into his high chair.Perhaps it had something to do with living in a dark cupboard, but Harry had always been small and skinny for his age. He looked even smaller and skinnier than he really was because all he had to wear were old clothes of Dudley's, and Dudley was about four times bigger than he was. Harry had a thin face, knobbly knees, black hair, and bright green eyes. He wore round glasses held together with a lot of Scotch tape because of all the times Dudley had punched him on the nose. The only thing Harry liked about his own appearance was a very thin scar on his forehead that was shaped like a bolt of lightning. He had had it as long as he could remember, and the first question he could ever remember asking his Aunt Petunia was how he had gotten it. Once, Aunt Petunia, tired of Harry coming back from the barbers looking as though he hadn't been at all, had taken a pair of kitchen scissors and cut his hair so short he was almost bald except for his bangs, which she left "to hide that horrible scar. " Dudley had laughed himself silly at Harry, who spent a sleepless night imagining school the next day, where he was already laughed at for his baggy clothes and taped glasses. Next morning, however, he had gotten up to find his hair exactly as it had been before Aunt Petunia had sheared it off. He had been given a week in his cupboard for this, even though he had tried to explain that he couldn't explain how it had grown back so quickly.Harry had the best morning he'd had in a long time. He was careful to walk a little way apart from the Dursleys so that Dudley and Piers, who were starting to get bored with the animals by lunchtime, wouldn't fall back on their favorite hobby of hitting him. They ate in the zoo restaurant, and when Dudley had a tantrum because his knickerbocker glory didn't have enough ice cream on top, Uncle Vernon bought him another one and Harry was allowed to finish the first.

Harry felt, afterward, that he should have known it was all too good to last.

After lunch they went to the reptile house. It was cool and dark in there, with lit windows all along the walls. Behind the glass, all sorts of lizards and snakes were crawling and slithering over bits of wood and stone. Dudley and Piers wanted to see huge, poisonous cobras and thick, man-crushing pythons. Dudley quickly found the largest snake in the place. It could have wrapped its body twice around Uncle Vernon's car and crushed it into a trash can -- but at the moment it didn't look in the mood. In fact, it was fast asleep.

Dudley stood with his nose pressed against the glass, staring at the glistening brown coils.

"Make it move," he whined at his father. Uncle Vernon tapped on the glass, but the snake didn't budge.

"Do it again," Dudley ordered. Uncle Vernon rapped the glass smartly with his knuckles, but the snake just snoozed on.

"This is boring," Dudley moaned. He shuffled away.

Harry moved in front of the tank and looked intently at the snake. He wouldn't have been surprised if it had died of boredom itself -- no company except stupid people drumming their fingers on the glass trying to disturb it all day long. It was worse than having a cupboard as a bedroom, where the only visitor was Aunt Petunia hammering on the door to wake you up; at least he got to visit the rest of the house.

The snake suddenly opened its beady eyes. Slowly, very slowly, it raised its head until its eyes were on a level with Harry's.

It winked.

Harry stared. Then he looked quickly around to see if anyone was watching. They weren't. He looked back at the snake and winked, too.

The snake jerked its head toward Uncle Vernon and Dudley, then raised its eyes to the ceiling. It gave Harry a look that said quite plainly:

"I get that all the time. "

"I know," Harry murmured through the glass, though he wasn't sure the snake could hear him. "It must be really annoying. "

The snake nodded vigorously.

"Where do you come from, anyway?" Harry asked.

The snake jabbed its tail at a little sign next to the glass. Harry peered at it.

Boa Constrictor, Brazil.

"Was it nice there?"

The boa constrictor jabbed its tail at the sign again and Harry read on: This specimen was bred in the zoo. "Oh, I see -- so you've never been to Brazil?"

As the snake shook its head, a deafening shout behind Harry made both of them jump. "DUDLEY! MR. DURSLEY! COME AND LOOK AT THIS SNAKE! YOU WON'T BELIEVE WHAT IT'S DOING!"

Dudley came waddling toward them as fast as he could.

"Out of the way, you," he said, punching Harry in the ribs. Caught by surprise, Harry fell hard on the concrete floor. What came next happened so fast no one saw how it happened -- one second, Piers and Dudley were leaning right up close to the glass, the next, they had leapt back with howls of horror.

Texted3.txt

It was on the corner of the street that he noticed the first sign of something peculiar -- a cat reading a map. For a second, Mr. Dursley didn't realize what he had seen -- then he jerked his head around to look again. There was a tabby cat standing on the corner of Privet Drive, but there wasn't a map in sight. What could he have been thinking of? It must have been a trick of the light. Mr. Dursley blinked and stared at the cat. It stared back. As Mr. Dursley drove around the corner and up the road, he watched the cat in his mirror. It was now reading the sign that said Privet Drive -- no, looking at the sign; cats couldn't read maps or signs. Mr. Dursley gave himself a little shake and put the cat out of his mind. As he drove toward town he thought of nothing except a large order of drills he was hoping to get that day. But on the edge of town, drills were driven out of his mind by something else. As he sat in the usual morning traffic jam, he couldn't help noticing that there seemed to be a lot of strangely dressed people about. People in cloaks. Mr. Dursley couldn't bear people who dressed in funny clothes -- the getups you saw on young people! He supposed this was some stupid new fashion. He drummed his fingers on the steering wheel and his eyes fell on a huddle of these weirdos standing quite close by. They were whispering excitedly together. Mr. Dursley was enraged to see that a couple of them weren't young at all; why, that man had to be older than he was, and wearing an emerald-green cloak! The nerve of him! But then it struck Mr. Dursley that this was probably some silly stunt -- these people were obviously collecting for something. . . yes, that would be it. The traffic moved on and a few minutes later, Mr. Dursley arrived in the Grunnings parking lot, his mind back on drills. Mr. Dursley always sat with his back to the window in his office on the ninth floor. If he hadn't, he might have found it harder to concentrate on drills that morning. He didn't see the owls swooping past in broad daylight, though people down in the street did; they pointed and gazed open-mouthed as owl after owl sped overhead. Most of them had never seen an owl even at nighttime. Mr. Dursley, however, had a perfectly normal, owl-free morning. He yelled at five different people. He made several important telephone calls and shouted a bit more. He was in a very good mood until lunchtime, when he thought he'd stretch his legs and walk across the road to buy himself a bun from the bakery. He'd forgotten all about the people in cloaks until he passed a group of them next to the baker's. He eyed them angrily as he passed. He didn't know why, but they made him uneasy. This bunch were whispering excitedly, too, and he couldn't see a single collecting tin. It was on his way back past them, clutching a large doughnut in a bag, that he caught a few words of what they were saying. Another time, Aunt Petunia had been trying to force him into a revolting old sweater of Dudley's (brown with orange puff balls). The harder she tried to pull it over his head, the smaller it seemed to become, until finally it might have fitted a hand puppet, but certainly wouldn't fit Harry. Aunt Petunia had decided it must have shrunk in the wash and, to his great relief, Harry wasn't punished. On the other hand, he'd gotten into terrible trouble for being found on the roof of the school kitchens. Dudley's gang had been chasing him as usual when, as much to Harry's surprise as anyone else's, there he was sitting on the chimney. The Dursleys had received a very angry letter from Harry's headmistress telling them Harry had been climbing school buildings. But all he'd tried to do (as he shouted at Uncle Vernon through the locked door of his cupboard) was jump behind the big trash cans outside the kitchen doors. Harry supposed that the wind must have caught him in mid-jump. It was a very sunny Saturday and the zoo was crowded with families. The Dursleys bought Dudley and Piers large chocolate ice creams at the entrance and then, because the smiling lady in the van had asked Harry what he wanted before they could hurry him away, they bought him a cheap lemon ice pop. It wasn't bad, either, Harry thought, licking it as they watched a gorilla scratching its head who looked remarkably like Dudley, except that it wasn't blond.

Text1.txt

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Text2.txt

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Text3.txt

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Text4.txt

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