## Contents

### Chuck.txt

Chuck, a scruffy terrier mix with ears that flopped in perpetually surprised angles, 3 considered the dandelion in the park his a nemesis. Every morning, during his walk with bis human, Sarah, Chuck would lower his head, a low growl rumbling in his chest, and charge. The dandelion, of course, remained s unmoved. Undeterred, Chuck would then try a different tactic: a delicate sniff, followed by a sudden, playful pounce. Sometimes, he'd even attempt to dig it out with enthusiastic, albeit clumsy, paws. Sarah would chuckle, watching his daily battle. One sunny afternoon, a gust of wind finally plucked the dandelion's fluffy head and carried it away. 16 Chuck froze, then looked up at Sarah, a 17 triumphant bark escaping his throat. He had 18 finally won, though the victory was more the wind's than his own. #Terrier #Dandelion

# Output

```
Starting Text File Indexer
3 ===== Text File Indexer Menu =====
4 1. Index a text file
5 2. Show tokens in all sections
6 3. Find tokens by length
74. View tokens by section
8 5. Exit
 _____
10 Enter your choice (1-5): 2
12 Index is empty.
14 ===== Text File Indexer Menu =====
15 1. Index a text file
16 2. Show tokens in all sections
_{17} 3. Find tokens by length
18 4. View tokens by section
 5. Exit
Enter your choice (1-5): 3
23 Index is empty.
 ==== Text File Indexer Menu =====
1. Index a text file
 2. Show tokens in all sections
3. Find tokens by length
29 4. View tokens by section
30 5. Exit
 Enter your choice (1-5): 4
34 Index is empty.
```

```
Output Continued ...
36 ==== Text File Indexer Menu =====
1. Index a text file
 2. Show tokens in all sections
39 3. Find tokens by length
4. View tokens by section
 5. Exit
 _____
Enter your choice (1-5): 1
44 Enter the filename to index: chuck.txt
Indexing file: 'chuck.txt'...
File indexed successfully (20 lines, 133 tokens processed).
48 ===== Text File Indexer Menu =====
1. Index a text file
2. Show tokens in all sections
_{51} 3. Find tokens by length
52 4. View tokens by section
 5. Exit
55 Enter your choice (1-5): 2
 --- Complete Index ---
 --- Section A ---
   a: 1, 6, 8, 9, 10, 14, 16
60
   afternoon,: 14
61
   albeit: 12
   and: 6, 15
63
   angles,: 2
64
   at: 16
65
   attempt: 11
   away.: 15
```

```
Output Continued ...
68
 --- Section B ---
    bark: 17
70
    battle:: 13
71
    by: 10
72
73
 --- Section C ---
74
    Chuck: 5, 8, 16
75
    Chuck,: 1
76
    carried: 15
77
    charge.: 7
78
    chest,: 6
79
    chuckle,: 12
80
    clumsy,: 12
81
    considered: 3
82
    course,: 7
83
84
  --- Section D ---
    daily: 13
86
    dandelion: 3
87
    dandelion's: 15
88
    dandelion,: 7
    delicate: 9
    different: 9
91
    dig: 11
92
    during: 4
93
94
 --- Section E ---
   Every: 4
96
    ears: 1
97
    enthusiastic,: 11
98
    escaping: 17
    even: 11
```

```
Output Continued ...
  --- Section F ---
    finally: 14, 18
    flopped: 2
104
    fluffy: 15
105
    followed: 9
106
    froze,: 16
107
  --- Section G ---
    growl: 6
110
    gust: 14
| --- Section H ---
    He: 17
114
    had: 17
    he'd: 10
116
    head: 15
117
    head,: 5
118
    his: 3, 4, 5, 5, 6, 13, 17, 19
119
    human,: 5
120
121
  --- Section I ---
    in: 2, 3, 6
123
    it: 11, 15
124
  --- Section L ---
126
    looked: 16
127
    low: 6
128
    lower: 5
129
130
  --- Section M ---
    mix: 1
    more: 18
133
    morning,: 4
134
```

```
Output Continued ...
  --- Section N ---
    nemesis.: 4
137
138
  --- Section 0 ---
    One: 13
140
    of: 7, 14
141
    out: 11
142
    own.: 19
143
144
  --- Section P ---
145
    park: 3
146
    paws.: 12
147
    perpetually: 2
148
    playful: 10
149
    plucked: 14
150
    pounce.: 10
  --- Section R ---
    remained: 7
154
    rumbling: 6
  --- Section S ---
    Sarah: 12
158
    Sarah,: 5, 16
159
    Sometimes,: 10
160
    scruffy: 1
    sniff,: 9
162
    sudden,: 10
163
    sunny: 13
164
    surprised: 2
165
```

```
Output Continued ...
166
  --- Section T ---
    The: 7
168
    tactic:: 9
169
    terrier: 1
170
    than: 19
171
    that: 1
172
    the: 3, 3, 14, 18, 18
173
    then: 8, 16
174
    though: 18
175
    throat.: 17
176
    to: 11
    triumphant: 17
178
    try: 8
179
180
  --- Section U ---
181
    Undeterred,: 8
182
    unmoved.: 8
    up: 16
184
185
  --- Section V ---
186
    victory: 18
187
  --- Section W ---
    walk: 4
    was: 18
191
    watching: 13
    wind: 14
193
    wind's: 19
194
    with: 1, 4, 11
195
    won,: 18
196
    would: 5, 8, 12
197
--- Section Non-Alpha ---
    #Dandelion: 20
200
    #Terrier: 20
201
```

# Output Continued ... |<sub>204</sub>| ===== Text File Indexer Menu ===== 205 1. Index a text file 206 2. Show tokens in all sections 3. Find tokens by length 208 4. View tokens by section 209 5. Exit \_\_\_\_\_\_ 211 Enter your choice (1-5): 1 Index is not empty. Clear existing index? (y/n): y Enter the filename to index: nonexistent file.txt 214 Error: Could not open file 'nonexistent\_file.txt'. 216 ===== Text File Indexer Menu ===== 217 1. Index a text file 218 2. Show tokens in all sections 3. Find tokens by length 220 4. View tokens by section <sub>221</sub> 5. Exit ========== Enter your choice (1-5): 4 224 Enter section character (A-Z or \*): v 226 --- Section V --victory: 18 | ===== Text File Indexer Menu ===== 231 1. Index a text file 232 2. Show tokens in all sections 3. Find tokens by length 234 4. View tokens by section <sub>235</sub> 5. Exit \_\_\_\_\_\_ $|_{237}|$ Enter your choice (1-5): 1

238 Index is not empty. Clear existing index? (y/n): n

239 Indexing cancelled.

```
Output Continued ...
241 ===== Text File Indexer Menu =====
242 1. Index a text file
243 2. Show tokens in all sections
3. Find tokens by length
4. View tokens by section
246 5. Exit
  _____
248 Enter your choice (1-5): 4
Enter section character (A-Z or *): v
  --- Section V ---
    victory: 18
254
| ===== Text File Indexer Menu =====
256 1. Index a text file
257 2. Show tokens in all sections
258 3. Find tokens by length
259 4. View tokens by section
260 5. Exit
262 Enter your choice (1-5): 3
Enter token length (non-negative): 2
  --- Tokens of Length 2 ---
265
    at: 16
266
    by: 10
    He: 17
268
    in: 2, 3, 6
269
    it: 11, 15
    of: 7, 14
    to: 11
272
    up: 16
273
```

```
Output Continued ...
276 ===== Text File Indexer Menu =====
1. Index a text file
2. Show tokens in all sections
3. Find tokens by length
280 4. View tokens by section
<sub>281</sub> 5. Exit
  _____
Enter your choice (1-5): 1
Index is not empty. Clear existing index? (y/n): n
285 Indexing cancelled.
<sub>287</sub> ===== Text File Indexer Menu =====
288 1. Index a text file
289 2. Show tokens in all sections
3. Find tokens by length
291 4. View tokens by section
292 5. Exit
294 Enter your choice (1-5): 3
Enter token length (non-negative): 11
297 --- Tokens of Length 11 ---
    dandelion's: 15
298
    perpetually: 2
    Undeterred,: 8
300
303 ===== Text File Indexer Menu =====
304 1. Index a text file
2. Show tokens in all sections
306 3. Find tokens by length
307 4. View tokens by section
308 5. Exit
Enter your choice (1-5): 1
```

```
Output Continued ...

Index is not empty. Clear existing index? (y/n): y

Enter the filename to index: milo.txt

Existing index cleared.

Indexing file: 'milo.txt'...

File indexed successfully (9 lines, 72 tokens processed).
```

#### milo.txt

In a quiet forest, a tiny squirrel named Milo loved to collect shiny acorns. One day, he found a golden acorn near a sparkling stream. Curious, he followed a trail of glowing pebbles that led him to a hidden grove. There, he met a wise old owl who shared stories of the forest's magic. Milo returned home, feeling grateful for the adventure and the new friend he had made.

#Milo #squirrel #acorn

## Output Continued ...

```
Output Continued ...
  --- Complete Index ---
327
  --- Section A ---
    a: 1, 1, 2, 3, 4, 4, 5
329
    acorn: 3
330
    acorns.: 2
    adventure: 7
    and: 7
333
334
  --- Section C ---
335
    Curious,: 3
336
    collect: 2
337
338
  --- Section D ---
    day,: 2
340
341
  --- Section F ---
    feeling: 7
343
    followed: 3
344
    for: 7
345
    forest's: 6
    forest,: 1
347
    found: 2
348
    friend: 8
349
350
  --- Section G ---
    glowing: 4
352
    golden: 2
353
    grateful: 7
354
    grove.: 5
```

```
Output Continued ...
356
  --- Section H ---
    had: 8
358
    he: 2, 3, 5, 8
359
    hidden: 4
360
    him: 4
361
    home,: 6
362
363
  --- Section I ---
    In: 1
365
366
  --- Section L ---
    led: 4
    loved: 1
369
  --- Section M ---
    Milo: 1, 6
    made.: 8
    magic.: 6
374
    met: 5
376
  --- Section N ---
    named: 1
378
    near: 3
379
    new: 7
380
381
382 --- Section 0 ---
    One: 2
    of: 4, 6
384
    old: 5
385
    owl: 5
386
Section P ---
    pebbles: 4
389
390
  --- Section Q ---
391
    quiet: 1
```

```
Output Continued ...
  --- Section R ---
    returned: 6
395
396
  --- Section S ---
    shared: 5
398
    shiny: 2
399
    sparkling: 3
400
    squirrel: 1
401
    stories: 6
402
    stream.: 3
403
405 --- Section T ---
    There,: 5
406
    that: 4
407
    the: 6, 7, 7
408
    tiny: 1
409
    to: 2, 4
410
    trail: 4
411
412
  --- Section W ---
413
    who: 5
    wise: 5
415
416
  --- Section Non-Alpha ---
    #Milo: 9
418
    #acorn: 9
    #squirrel: 9
```

```
Output Continued ...
==== Text File Indexer Menu =====
424 1. Index a text file
2. Show tokens in all sections
3. Find tokens by length
4. View tokens by section
428 5. Exit
 _____
Enter your choice (1-5): 3
431 Enter token length (non-negative): 1
432
 --- Tokens of Length 1 ---
   a: 1, 1, 2, 3, 4, 4, 5
436
437 ===== Text File Indexer Menu =====
438 1. Index a text file
2. Show tokens in all sections
3. Find tokens by length
4. View tokens by section
442 5. Exit
 _____
444 Enter your choice (1-5): 3
445 Enter token length (non-negative): 2
446
 --- Tokens of Length 2 ---
447
   he: 2, 3, 5, 8
448
   In: 1
   of: 4, 6
450
   to: 2, 4
451
```

```
Output Continued ...
454 ===== Text File Indexer Menu =====
455 1. Index a text file
456 2. Show tokens in all sections
3. Find tokens by length
458 4. View tokens by section
459 5. Exit
 _____
Enter your choice (1-5): 4
Enter section character (A-Z or *): m
463
 --- Section M ---
464
   Milo: 1, 6
  made.: 8
  magic.: 6
467
   met: 5
 ==== Text File Indexer Menu =====
1. Index a text file
2. Show tokens in all sections
3. Find tokens by length
4. View tokens by section
476 5. Exit
477
Enter your choice (1-5): 4
479 Enter section character (A-Z or *): t
 --- Section T ---
   There,: 5
482
   that: 4
483
   the: 6, 7, 7
484
   tiny: 1
   to: 2, 4
486
   trail: 4
487
```

```
Output Continued ...

489

===== Text File Indexer Menu =====

491 1. Index a text file

492 2. Show tokens in all sections

493 3. Find tokens by length

494 4. View tokens by section

55. Exit

495 Enter your choice (1-5): 5

498

499 Exiting program. Goodbye!

Program finished.
```