The next “next generation library catalog”

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Find is not the problem to solve
It starts with counting

- Measuring length
- Measuring readability, or other indexes
- Measuring frequency of n-grams and POS
- Analyzing measurements and looking for patterns
- Graphing & charting analysis
- Drawing conclusions & making judgments
## Simple counting

<table>
<thead>
<tr>
<th>Author</th>
<th>Works</th>
<th>Words</th>
<th>Average</th>
<th>Grade</th>
<th>Flesch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plato</td>
<td>25</td>
<td>1,162,46</td>
<td>46,499</td>
<td>12-15</td>
<td>54</td>
</tr>
<tr>
<td>Aristotle</td>
<td>19</td>
<td>950,078</td>
<td>50,004</td>
<td>13-17</td>
<td>50</td>
</tr>
<tr>
<td>Shakespeare</td>
<td>36</td>
<td>856,594</td>
<td>23,794</td>
<td>7-10</td>
<td>72</td>
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</tbody>
</table>
Individual words

- **Plato** - will, one, socrates, may, good, said, man, say, true, shall, like, can, must, another, men, now, also, things, first, let, nature, many, state, knowledge, and two

- **Aristotle** - one, will, must, also, things, man, may, animals, thing, two, time, can, another, part, first, either, like, good, case, nature, motion, since, others, now, and way

- **Shakespeare** - thou, will, thy, shall, lord, thee, sir, king, good, now, come, well, enter, love, let, hath, man, like, one, upon, know, say, make, may, and yet
Two-word phrases (bigrams)

- **Plato** - let us, one another, young socrates, just now, first place, every one, like manner, every man, quite true, two kinds, human life, one thing, will make, human nature, human mind, quite right, modern times, young men, can hardly, will never, will tell, dare say, will say, false opinion, and one else

- **Aristotle** - one another, something else, let uses, takes place, one thing, without qualification, middle term, first figure, b belongs, take place, essential nature, every one, practical wisdom, will belong, general rule, anything else, one might, first principle, good man, two things, two kinds, first place, like manner, one kind, and scientific knowledge

- **Shakespeare** - king henry, thou art, thou hast, king richard, mark antony, prince henry, let us, king lear, thou shalt, duke vincentio, dost thou, sir toby, art thou, henry v, richard iii, toby belch, scene ii, act iv, iv scene, exeunt king, don pedro, mistress quickly, act iii, thou dost, and sir john
Plato’s bigrams
Aristotle’s bigrams
Shakespeare's bigrams
“good man” in Plato

verness. To the good man, education is of all happen to the good man either in life or death. The rule of one good man is better than the art and pious and good man is the friend of the happens to be a good man is more than human
felt, and the good man will never volunteer.

Therefore the good man should be a lover of himself, and the good man obeys his reason. And before, the good man has a right to rule. He states the good man and the good city.
“good man” in Shakespeare

Antonio is a good man. BASSANIO Have whistle. A good man's fortune may not hit it, my good man. BOYET An I come; and my good man too: he's as I her, alack, good man! And therefore
“love is” in Shakespeare

a familiar; Love is a devil: there is
SPEED Because Love is blind. O, that yo
ny night; for Love is like a child, Tho
ch. ROSALIND Love is merely a madness,
impediments. Love is not love Which al
Again, find is not the problem to solve. Instead, the problem to solve is use.

By combining full text content with the power of computers, the library “catalog” can be seen as an empowering tool.
The End
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