Optical Character Recognition

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Overview

- Why Courier New?
  - Monospace Font: Each character takes the same amount of space
  - No Kerning

Dictionary

ABCDEFGHIJKLMNOPQRSTUVWXYZ
0123456789

ABCDEFGHIJKLMNOPQRSTUVWXYZ
Output on test48.txt

Expected: THE QUICK BROWN FOX JUMPED OVER THE LAZY DOGS 0123456789
Output: THE0UICKBROWNFOYJUMPEDOVERTHELAZYDOG20123456789

44/47 = 93.6%
Expected: THEQUICKBROWNFOX JUMPED OVER THE LAZY DOGS 0123456789
Output: THEQUICKBROWNF0Y JUMPEDOVERTHELAZYDOGS0123456789

46/47 = 97.8%
Output on test90.txt

Expected: THEQUICKBROWNFOXJUMPEDOVERTHELAZYDOGS0123456789
Output: THEQUICKBROWNFOXJUMPEDOVERTHELAZYDOGS0123456789

47/47 = 100%
Conclusion

- The program is more accurate with larger font sizes
  - The more pixels it has to check against, the more accurately it can determine the character