**Class Diagram**

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| **TextAnalysis** |
| + String input |
| + char[] inputAsArray |
| + String inputForDisplay |
| + int numberOfSpaces |
| + int numberOfWords |
| + int charsIncludingSpaces |
| + int charsExcludingSpaces |
| + int[] characterFrequency |
| + int highestCount |
| + int numberOfRecognisedCharacters |
| + int numberOfUnrecognisedCharacters |
| + String[] relativeFrequency |
| + static final char[] characterArray |
| Include get method for each attribute |
|  |
| + int numberOfSpaces(…) |
| + int numberOfWords(…) |
| + int countCharacters(…) |
| + int[] characterFrequency(…) |
| + int highestCount(…) |
| + int numberOfRecognisedCharacters(…) |
| + int numberOfUnrecognisedCharacters(…) |
| + String[] relativeFrequency(…) |
| + String inputForDisplay(…) |
| + String ToString(…) |
| + void DisplayFrequencies(…) |
| + void BarChartFrequencies(…) |