

## STRAIGHT LINES AND CURVES

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Some capital letters are made up entirely of straight lines; others are made up entirely of curves or a combination of straight lines and curves. Of course, it does depend on the font being used. In the font being used in this article (Calibri), the all-straight-lines letters are AEFHIKLMNTVWXYZ; the curvy letters are BCDGJOPQRSU – summarised in this table:

<b>Straight-line letters</b>	<b>A E F H I K L M N T V W X Y Z</b>
<b>Curvy letters</b>	<b>B C D G J O P Q R S U</b>

Another advantage of the Calibri font is that all the letters are sans-serif; none of them has the little flourishes (serifs) at the ends of lines (as demonstrated by the Cambria font here – AEFHIKLMNTVWXYZ), where it could be argued that the serifs should be counted as straight lines. Of course, if you print the letters in some really curvy variant, such as the Harlow Solid Italic font, all the letters become curvy, with not a straight line anywhere - thus, *A B C D E F G H I J K L M N O P Q R S T U V W X Y Z*. Anyway, for the remainder of this article, let's stick with the Calibri font.

I decided to search for the longest words composed entirely of straight-line letters. Here are 20 of the longest:

<u>Word</u>	<u>Length</u>	<u>Dictionary</u>
<b>HEXAMETHYLENAMINE</b>	17	OED
<b>AFFINITATIVELY</b>	14	OED
<b>ALIMENTATIVELY</b>	14	UWD
<b>ANTEMILLENNIAL</b>	14	W2
<b>ANTENATALITIAL</b>	14	OED
<b>ANTIANTIENZYME</b>	14	W2
<b>HEMIMELLITENE</b>	13	UWD
<b>HEXAMETHYLENE</b>	13	UWD
<b>INATTENTIVELY</b>	13	UWD
<b>INFINITIVALLY</b>	13	UWD

<b>METAHEWETTITE</b>	13	UWD
<b>METHYLANILINE</b>	13	UWD
<b>METHYLENIMINE</b>	13	UWD
<b>NEMATHELMINTH</b>	13	UWD
<b>AFFINITATIVE</b>	12	OED
<b>ALIMENTATIVE</b>	12	UWD
<b>ANATHEMATIZE</b>	12	UWD
<b>ANNIHILATIVE</b>	12	UWD
<b>EFFEMINATELY</b>	12	UWD
<b>ETHYLENIMINE</b>	12	UWD

Given that some letters are composed of anywhere from 1 to 4 straight lines, I wondered which words possess the greatest number of straight lines. Here's a table showing the number of straight lines in each of the straight-line letters:

<b>A</b>	<b>E</b>	<b>F</b>	<b>H</b>	<b>I</b>	<b>K</b>	<b>L</b>	<b>M</b>	<b>N</b>	<b>T</b>	<b>V</b>	<b>W</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
<b>3</b>	<b>4</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>2</b>	<b>3</b>	<b>3</b>

Here are 20 words with the greatest number of straight lines:

<u>Word</u>	<u>Straight lines</u>	<u>Dictionary</u>
<b>HEXAMETHYLENAMINE</b>	52	OED
<b>HEXAMETHYLENE</b>	41	UWD
<b>ANTIANTIENZYME</b>	39	W2
<b>METAHEWETTITE</b>	39	UWD
<b>HEMIMELLITENE</b>	38	UWD
<b>METHYLENIMINE</b>	38	UWD
<b>NEMATHELMINTH</b>	38	UWD
<b>ANTEMILLENNIAL</b>	37	W2
<b>ALIMENTATIVELY</b>	36	UWD
<b>AZIMETHYLENE</b>	36	W2
<b>EFFEMINATELY</b>	36	UWD
<b>ELEMENTALIZE</b>	36	W2
<b>HAHNEMANNIAN</b>	36	W2
<b>KEWEENAWITE</b>	36	W2

<b>ANATHEMATIZE</b>	35	UWD
<b>EFFEMINATIZE</b>	35	W2
<b>METHYLANILINE</b>	35	UWD
<b>NEMATELMINTH</b>	35	W2
<b>ANTENATALITIAL</b>	34	OED
<b>ELEMENTALITY</b>	34	OED

And what about the longest words where all the letters have a curvy component? Because of the multiplicity of spellings of one particular word (COUSCOUS) and its plurals, I've expanded this selection to 30 of the longest words.

<u>Word</u>	<u>Length</u>	<u>Dictionary</u>
<b>COUSCOUSSOUS</b>	12	OED
<b>COOSCOOSOOS</b>	11	OED
<b>COUSCOOSOOS</b>	11	OED
<b>COUSCOUSOUS</b>	11	OED
<b>COUSCOUSSOU</b>	11	OED
<b>COUSCOOSOO</b>	10	OED
<b>COUSCOUSOU</b>	10	OED
<b>CUSCOUSOUS</b>	10	UWD
<b>COROCOROS</b>	9	OED
<b>CURUCUCUS</b>	9	UWD
<b>CUSCOUSOU</b>	9	UWD
<b>OOSPOROUS</b>	9	UWD
<b>OUROBOROS</b>	9	OED
<b>SUBGROUPS</b>	9	UWD
<b>SUCCUBOUS</b>	9	UWD
<b>SURUCUCUS</b>	9	UWD
<b>UROPODOUS</b>	9	UWD
<b>CROUPOUS</b>	8	UWD
<b>CURUCUCU</b>	8	UWD
<b>ORDUROUS</b>	8	OED
<b>PRODRUGS</b>	8	UWD

<b>PROSODUS</b>	8	UWD
<b>PROSORUS</b>	8	UWD
<b>SOURPUSS</b>	8	UWD
<b>SUBGROUP</b>	8	UWD
<b>SUCCOURS</b>	8	UWD
<b>SUCCUBUS</b>	8	UWD
<b>SUDOROUS</b>	8	OED
<b>SURUCUCU</b>	8	UWD
<b>SUSURRUS</b>	8	UWD

Can readers improve on any of the selections here? Or extend the concept in some way?

Reference sources:

UMW – Unabridged Merriam-Webster Dictionary (online)

OED – Oxford English Dictionary (online)

W2 – Webster’s New International Dictionary, Second Edition