

On-line Table: Readability scales and their formulas

Scale	Description	Formula
Flesch Reading Ease	Average number of syllables (B), average number of words per sentence (W), average number of sentences (S)	$FRE = 206.835 - [84.6 \times (B/W)] - [(1.015 \times W/S)]$
Coleman-Liau Index	Average number of letters per 100 words (L) and average number of sentences per 100 words (S)	$CLI = (0.0588 \times L) - (0.296 \times S) - 15.8$
Flesch-Kincaid Grade Level	Average number of syllables per word (SY) and average number of words per sentence (W)	$FKGL = (0.39 \times W) + (11.8 \times SY) - 15.59$
FORCAST Formula	Number of single-syllable words in a 150-word sample (SS)	FORCAST Formula = $20 - (SS/10)$
Fry Graph	Average number of sentences and syllables per 100 words	<ol style="list-style-type: none"> 1) Extract a 100-word passage from the selection 2) Count the number of sentences in each passage (count a half sentence as 0.5) 3) Count the number of syllables in each passage 4) Find the point on the chart (3 samples recommended for best results)
Gunning Fog Index	Number of sentences (S), number of words (W), number of words with ≥ 3 syllables (C)	$GFI = 0.4 \times (W/S + [(C/W) \times 100])$
New Dale Chall	Average number of words per sentence (AW) and percentage of unfamiliar words (%U)	$NDC = (0.1579 \times \%U) + (0.0496 \times AW)$
New Fog Count	Number of complex words (C), number of easy words (E), number of sentences (S)	$NFC = [(E + (3 \times C))/S] - 3]/2$
Raygor Readability Estimate	Average number of sentences and long (≥ 6 characters) words per 100 words	<ol style="list-style-type: none"> 1) Select a 100-word passage from the selection 2) Count the number of sentences, estimated to the nearest tenth 3) Count the number of words that are ≥ 6 letters 4) Find the point on the chart (3 samples recommended for best results)
SMOG Readability Formula	Average number of words with ≥ 3 syllables (C) and average number of sentences (S)	$SMOG = 1.043 \times \sqrt{[(C \times (30/S)) + 3.129]}$