# Measuring the "Readability" of Text

## By the end of this video you will be able to...

 Describe how the Flesch Readability Score can be used to determine the readability of text There is hereby imposed on the taxable income of every individual (other than a surviving spouse as defined in section 2(a) or the head of a household as defined in section 2(b)) who is not a married individual (as defined in section 7703) a tax determined in accordance with the following table:

26 U.S. Code § 1 – Tax imposed https://www.law.cornell.edu/uscode/text/26/1



If you are single, never lost your spouse, and not the head of a household, you pay taxes according to the following table:



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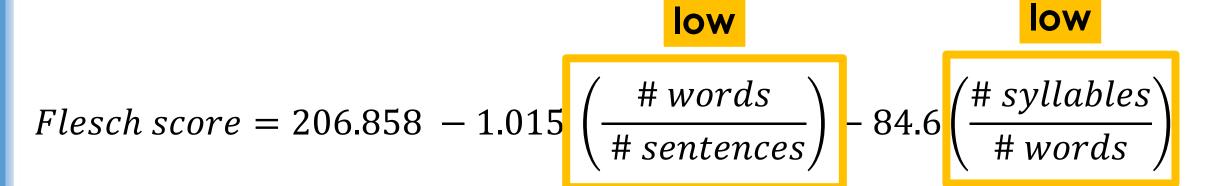
## How do we quantify the difference?



If you are single, ne' Easy to read and not the head of a household, you pay Easy to read e following table:

### Measure of text readability

$$Flesch\ score = 206.858 - 1.015 \left(\frac{\#\ words}{\#\ sentences}\right) - 84.6 \left(\frac{\#\ syllables}{\#\ words}\right)$$



High score (>90)  $\rightarrow$  easy to read

Few words/sentence and few syllables/word

high

high

$$Flesch\ score = 206.835\ -1.015$$

$$Flesch \ score = 206.835 - 1.015 \left( \frac{\# \ words}{\# \ sentences} \right) - 84.6 \left( \frac{\# \ syllables}{\# \ words} \right)$$

$$6\left(\frac{\text{# syllables}}{\text{# words}}\right)$$

Low score (<30)  $\rightarrow$  difficult to read

Many words/sentence and many syllables/word

#### Measure of text readability

$$Flesch \ score = 206.858 - \boxed{1.015} \left( \frac{\# \ words}{\# \ sentences} \right) - \boxed{84.6} \left( \frac{\# \ syllables}{\# \ words} \right)$$

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2(a) or (Post graduate degree reading level) (a) who is not a (Post graduate degree reading level) (a) determined in accordance with the following table:

Flesch score = 65.8 (10<sup>th</sup> grade reading level)

$$Flesch score = 206.835 - 1.015 \begin{pmatrix} # words \\ # sentences \end{pmatrix} - 84.6 \begin{pmatrix} # syllables \\ # words \end{pmatrix}$$

Requires the ability to manipulate Strings!

$$Flesch \ score = 206.835 - 1.015 \left( \frac{\# \ words}{\# \ sentences} \right) - 84.6 \left( \frac{\# \ syllables}{\# \ words} \right)$$