Winter 2024-2025 CSSE 315

CSSE 315 – Natural Language Processing Rose-Hulman Institute of Technology

Worksheet 02

Name	(Print)	:	Date:
	(

1. Warm-up. How would you split this sentence into words (tokens)? Could be more than just one way...

I'm moving to Winston-Salem.

2. Definitions

Term	Definition
	The minimal unit that the machine can process
	Splitting the raw text into smaller chunks
Stop words	Examples:

- 3. Provide at least 2 reasons for tokenization:
 - 1.
 - 2.
- 4. Complete the following:

5. Stopwords

8 December 2024

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Term	Definition
	Splits a sentence into individual words
	Breaks the text into individual characters
	Splits a word into subwords

7	How	would	VO11	split	"unwanted",	"football"	using	subword	tokenizer?
١.	110 W	would	you	Spire	unwanted,	iootbaii	using	Subword	CONCILIZOI.

unwanted football

8. Test BPE tokenizer with your own words, and provide the output. Share any interesting/surprising observations

Word Examples	BPE Tokenizer Output

- 9. Which tokenizer is most commonly used?
 - Word-level
 - Character-level
 - Subword-level

10. Provide the names of at least one model for each tokenizer

Tokenizer	Model
Word-Level	
Character-Level	
BPE/Subword	