## TOCEN IZATEDIN

- 3. Segmenting sentences

Words

- \* Type: an denent of the veabulary
- \* token: an instance of that type

Tokenization — fest morrelization

1. Segrenting/Adenizing words

2. Normalizing words format

2. Connection and format

3. Connection and format

Total's cost in the host of Cats is different from other costs Cats

- \* lemma: same stem, part of speedy rough word sense I cut & costs is same lemma
- \* wordform: full inflected surface form Good & costs is defferent



## How many words?

they lay back on the San Francisco grass and looked at the stars and their

- Type: an element of the vocabulary.

• Token: an instance of that type in running text.

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In general () = number of tolcous V = Vocabulary = set of types with Whis the size of

There are some issues in tokeniquetion: - use of ", what'ere", finland's, - use of - " leavest - Packard",

"state-of-the-ort"

- "San Franksco", 1 cr 2 tolen?

- M.P.h, PhD.

- languages issues Caernan, some, japanese chinese, otc.)

## VALIZATION

Wornalize a

\* I.R - in reped text to given torny must have some from

\* aggrundorc copausion

\* teduce all letters to homercase

la sometimes "Case" 11

help fu: Sendinunt

analysis, MT,

(US and us is important)

lemmatize - reduce inflection

voriant forms

to base from

\* am, one, is => be \* cor, cers, car's, cors' => cor

finding correct dictionary readward from

(woing at parts of words -> nweephology

murp hemes

Grall nearing ful units that make up winds

42 birds of nurphenes:

- stems: core meaning-bearing with

- affectes): pieces that adhere to stems Gapten with gramonatical quiction