Input: raw text

Output: sequence of tokens normalized for easier processing.

• Some Asian languages have obvious issues:

利比亚"全国过渡委员会"执行委员会主席凯卜22日在首都的黎波里公布"过渡政府"内阁名单,宣告过渡政府正式成立。

- But German too: Noun-noun compounds: Gesundheitsversicherungsgesellschaften
- Spanish clitics: Darmelo
- Even English has issues, to a small degree: Gregg and Bob's house

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• But German too: Noun-noun compounds:

Gesundheits-versicherungs-gesellschaften (health insurance companies)

- Spanish clitics: Darmelo
- Even English has issues, to a small degree: *Gregg and Bob's house*

• Some Asian languages have obvious issues:

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- But German too: Noun-noun compounds: Gesundheitsversicherungsgesellschaften
- Spanish clitics: Dar-me-lo (To give me it)
- Even English has issues, to a smaller degree: *Gregg* and Bob's house

Input: raw text

Dr. Smith said tokenization of English is "harder than you've thought." When in New York, he paid \$12.00 a day for lunch and wondered what it would be like to work for AT&T or Google, Inc.

Output from Stanford Parser: http://nlp.stanford.edu:8080/parser/index.jsp with part-of-speech tags:

```
Dr./NNP Smith/NNP said/VBD tokenization/NN of/IN English/NNP is/VBZ ``/`` harder/JJR than/IN you/PRP 've/VBP thought/VBN ./.
```

When/WRB in/IN New/NNP York/NNP ,/, he/PRP paid/VBD \$/\$ 12.00/CD a/DT day/NN for/IN lunch/NN and/CC wondered/VBD what/WP it/PRP would/MD be/VB like/JJ to/TO work/VB for/IN AT&T/NNP or/CC Google/NNP ,/, Inc./NNP ./.