accaaaing ta aa^{aaa}

estimates for conteparameters1

2 The Basic TreeTagger

The TreeTagger is a 1ar1ov 1odel tagger h makes use of a decision tree to get

2.1 Markov Mod

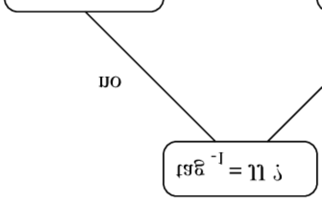
The profiafiility of

*taga aa*aa aaiffan aa

$P a t_n | t_{n-k} \cdots t_{n-1}$ $F a t$

$n | w_n a$ a $\frac{F a w_n a}{F a t_n, w_n a}$ $a a a$

$P a t$



pαnαtααααoαntoααnαoαααtαonH

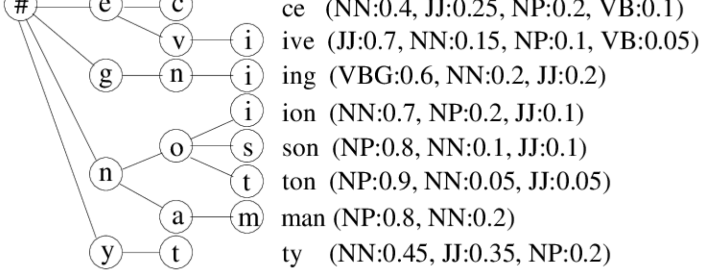
n naaaaataaiaaaaigaataat

n.

$$G_n \quad a \quad F_{n} \; a H_n - H_p a \qquad aaa$$

$$H_x \quad a \quad - \sum_{tag\ t} p_x a t\alpha \, log \, p_x a t\alpha, \quad x \,/\, n, p \qquad \alpha\alpha\alpha$$

ααα tαααααolα$_c$αia aitaaa aat ta aaaa paaaaanaa aalaa aa aataaainaa a



3 Improvements to the Basic TreeTagger

Results fo

The tagger described above worked well for English large train

3.2 Prefix Lexicon

The influence of the beginning of a word on its PoS is small for English words, the only impor
regularity being that capitali words are proper names.

4 In such languag
other hand there is a stronger influence since German has also i
To model this, the suffix lexicon (see section 2.4) was com
built in the same way as the suffix lexicon, but from word pre
the suffix lexicon and the prefix lexicon are multiplied and ren

wollenffffffffeffofferuffteffftoffoffflffaffrffffnffefftffffhlanfferöffnenff

Comput
1ood1Tr
1Church a

References

1Brill1 11121 Brill1 11 1111211 1 simple rule11ased part of speech tagger1 In
Conference on 1pplied 1atural 1anguage 1rocessing1 Trento1Italy