

Word N-Grams

Introduction

Markov Text/Word Generation

- Same Concepts from Markov Programs
 - Using typewriter metaphor, but choose words!
 - Order-1, use one word to predict next
 - Generalize: amusing stories with Java concepts
- Java class design
 - Word equivalent of String
 - Check for equality
 - Use as key in HashMap



MarkovWordOne Example

- From 1-letter to 1-word random text

Word Play

MarkovWordOne Example

- From 1-letter to 1-word random text
 - Is training text recognizable?

lknedsthedol t hthe and asansegan!' `icecthe tatile
hengabo owap. sher bot cheastt de he oede foorpe t: ey
taverro th r heepsave. cofitighete che med itheald ce
litsid utmealicanoul songrait tt

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MarkovWordOne Example

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 - Is training text recognizable?
 - Words use same interface! Easier to recognize.

he spoon: While she had left off staring at each side will be quite natural way. `I seem to say, `Look out of the look down a sleepy voice along--`Catch him, he'd do either!' And Alice thoughtfully: `but it out of everything is Dinah, tell you--all I beg your tongue!' added `Come, let's try the prisoner's handwriting?' asked it thought

MarkovWordOne Example

- From 1-letter to 1-word random text
 - Is training text recognizable?
 - Words use same interface! Easier to recognize.



Modern or Dated Example?

- Is this order-1 character text recognizable?

cayt ald twh t ou? ber To Ton wery, Helitho ym
the suts fr, orerorg ortred so Hetece Athe in
sorelin'm 0out thorsinyorne ticat a mor An've
trl yo fon canymusarouppate angoupineso I's erlllt
he yt

Modern or Dated Example?

- Is this order-1 character text recognizable?
 - Order-1 MarkovWordOne runnable from same MarkovRunner program — Java interfaces!

```
the other side I hope that I've done But when  
I ain't done But it don't matter, it don't matter,  
it don't matter, it don't matter, it don't matter,  
it don't matter, it don't matter, it don't matter,  
it clearly doesn't tear you never seem to be When  
we were younger and free I've done much healing  
Hello, it's me, I must've called a thousand times
```

Modern or Dated Example?

- Is this order-1 character text recognizable?
 - Order-1 MarkovWordOne runnable from same MarkovRunner program — Java interfaces!



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