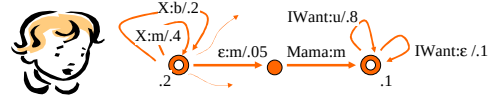


More FST Examples

600.465 - Intro to NLP - 1. Eisner

1

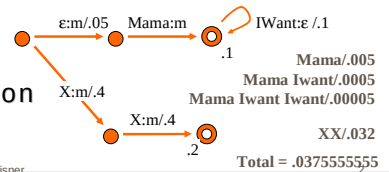
An FST: Baby Think & Baby Talk



observe
talk



recover
think, by
composition

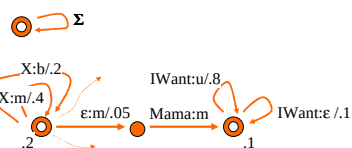


600.465 - Intro to NLP - 1. Eisner

Total = .037555555

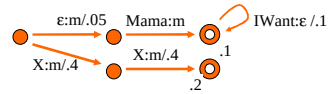
Joint Prob. by Double Composition

think



talk

compose



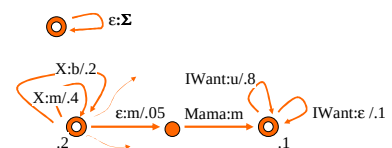
600.465 - Intro to NLP - 1. Eisner

$p(\Sigma^* : mm) = .0375555 = \text{sum of all paths}$

3

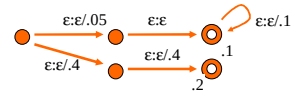
Summing Over All Paths

think



talk

compose



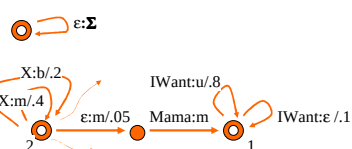
600.465 - Intro to NLP - 1. Eisner

$p(\Sigma^* : mm) = .0375555 = \text{sum of all paths}$

4

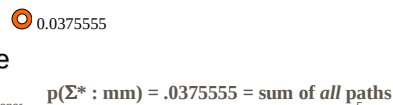
Summing Over All Paths

think



talk

compose
+ minimize



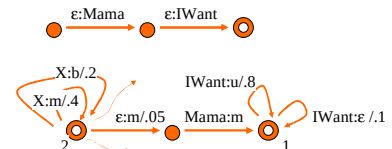
600.465 - Intro to NLP - 1. Eisner

$p(\Sigma^* : mm) = .0375555 = \text{sum of all paths}$

5

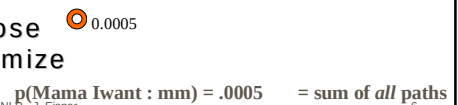
Summing Over All Paths

think



talk

compose
+ minimize



600.465 - Intro to NLP - 1. Eisner

$p(\text{Mama Iwant} : mm) = .0005 = \text{sum of all paths}$

6