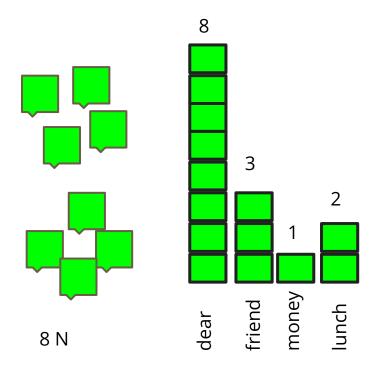
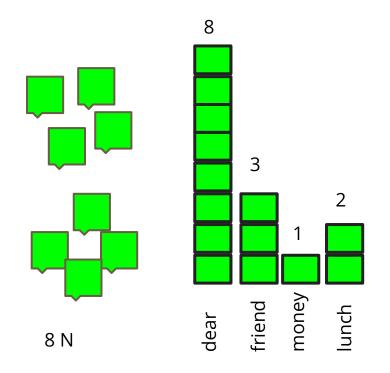
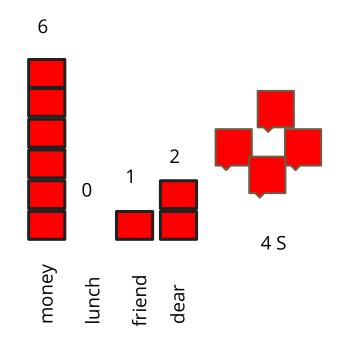
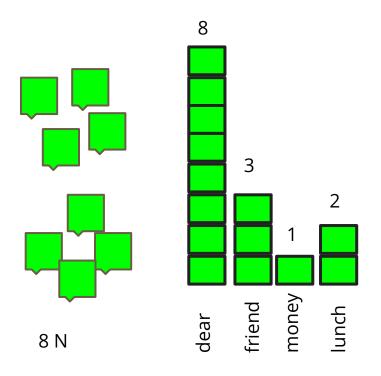
## **Projet Machine Learning I**

Konstantin Todorov, Pascal Poncelet, Gaoussou Sanou

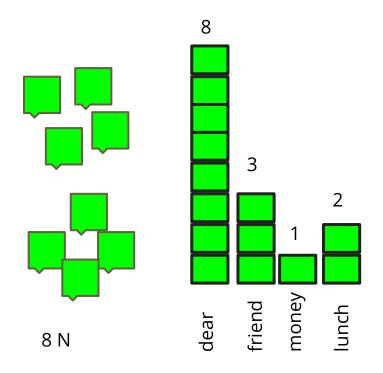






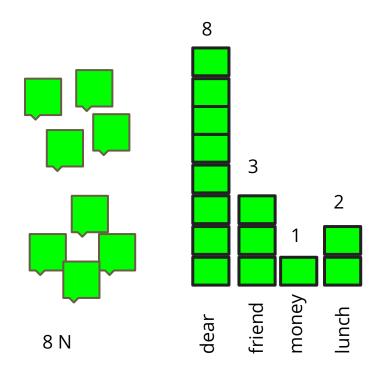


p(dear | N) = 8/14 = 0.57



$$p(dear | N) = 8/14 = 0.57$$

$$p(friend | N) = 3/14 = 0.21$$



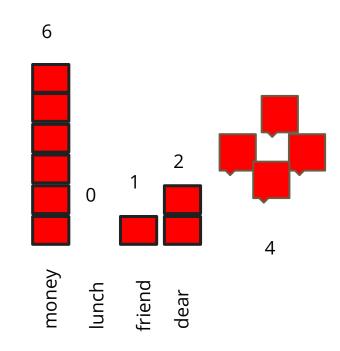
$$p(dear | N) = 8/14 = 0.57$$

$$p(friend | N) = 3/14 = 0.21$$

$$p(money | N) = 0.07$$

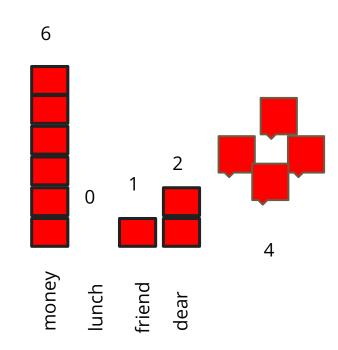
$$p(lunch | N) = 0.14$$

p(dear | S) = 0.22



p(dear | S) = 0.22

p(friend | S) = 0.11

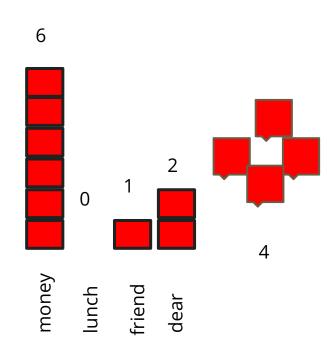


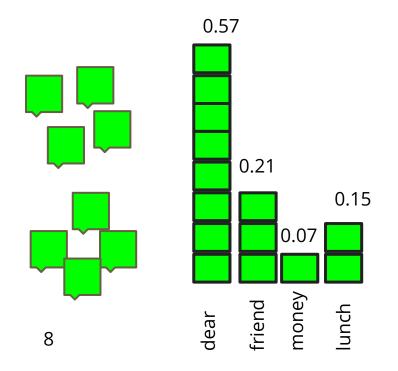
$$p(dear | S) = 0.22$$

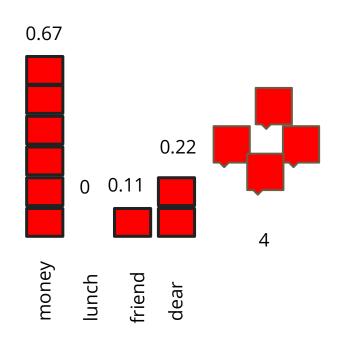
p(friend | S) = 0.11

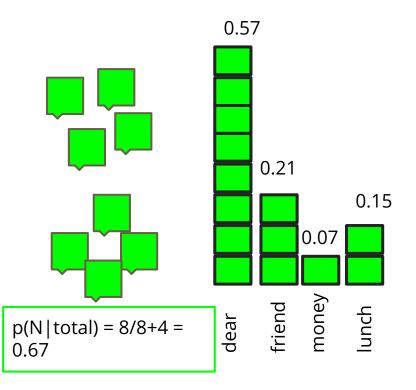
p(money | S) = 0.67

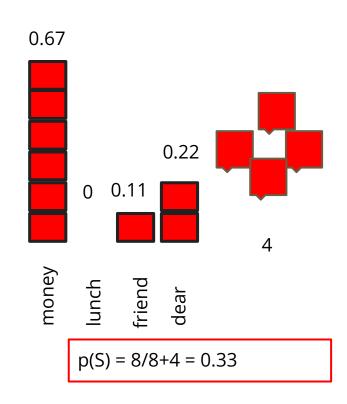
p(lunch | S) = 0

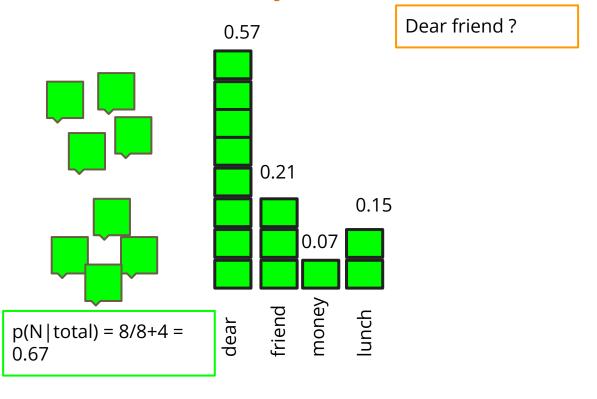


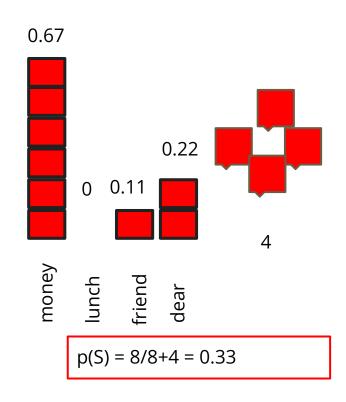


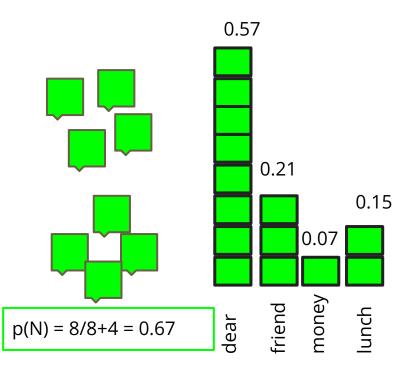






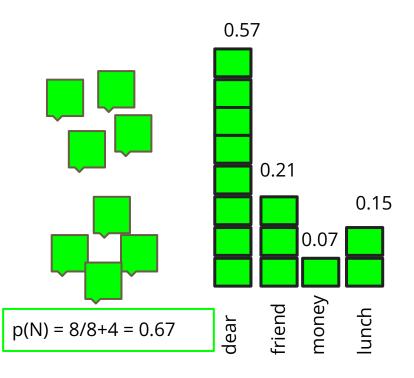






Dear friend

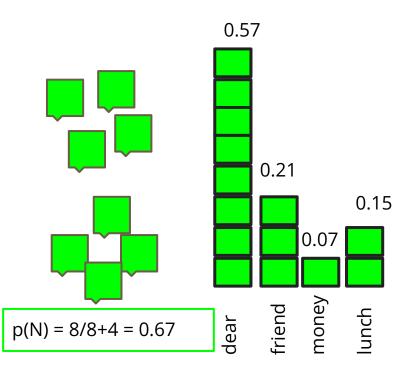
p(N) \* p(Dear | N) \* p(Friend | N)



Dear friend

p(N) \* p(Dear | N) \* p(Friend | N)

0.67 \* 0.57 \* 0.21



Dear friend

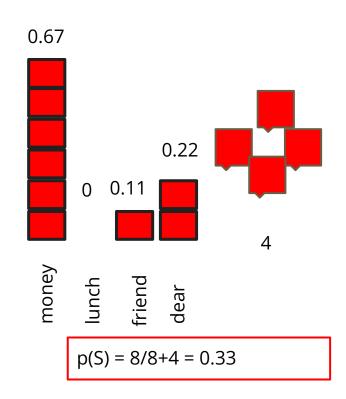
p(N) \* p(Dear | N) \* p(Friend | N)

0.67 \* 0.57 \* 0.21

0.080

Dear friend

p(S) \* p(Dear |S) \* p(Friend|S)

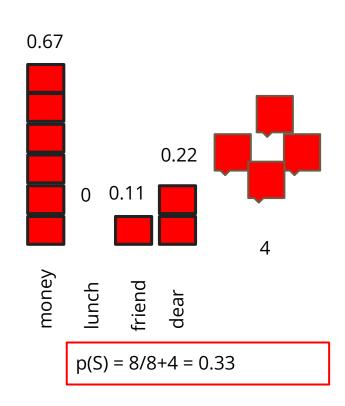


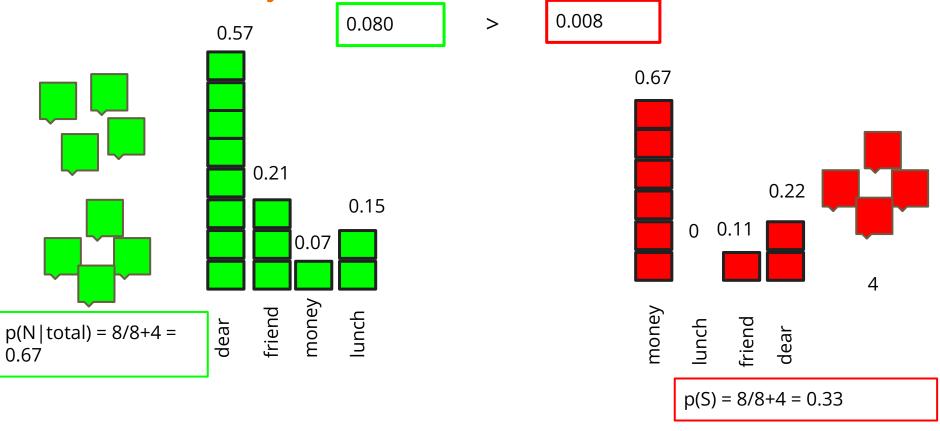
Dear friend

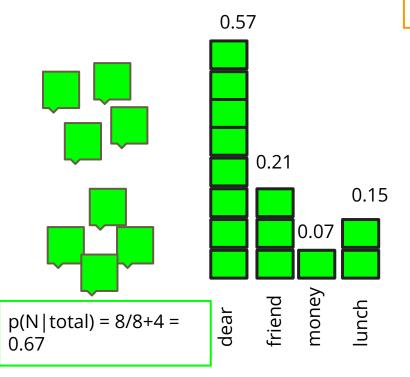
p(S) \* p(Dear |S) \* p(Friend|S)

0.33 \* 0.22 \* 0.11

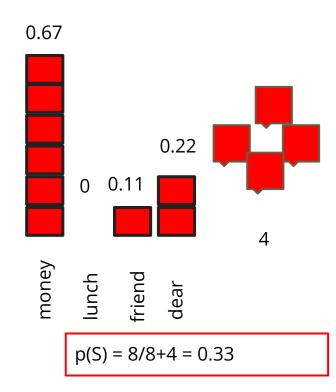
0.008

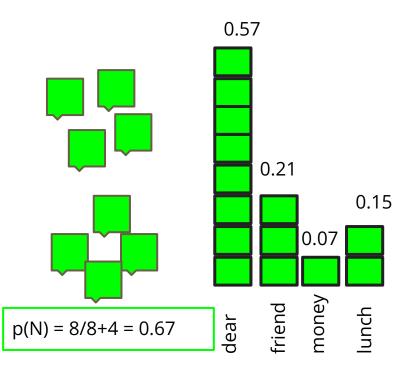






Lunch money money money ?





Lunch money money money ?

 $p(N) * p(lunch | N) * p(money | N)^4$ 

0.67 \* 0.15 \* 0.07^4

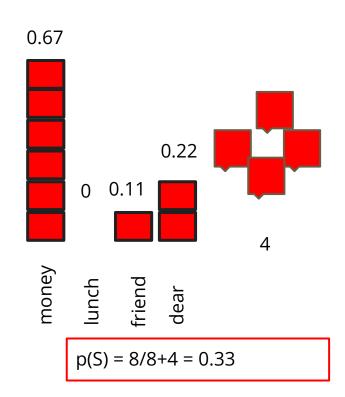
0.00053

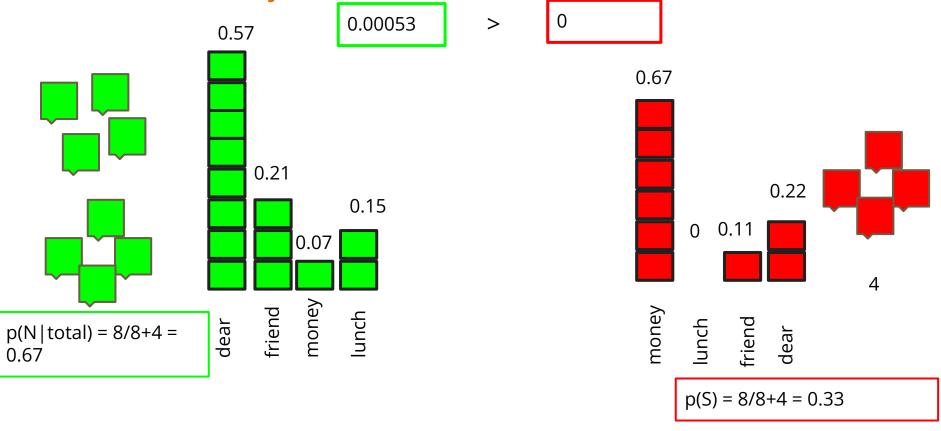
Lunch money money money ?

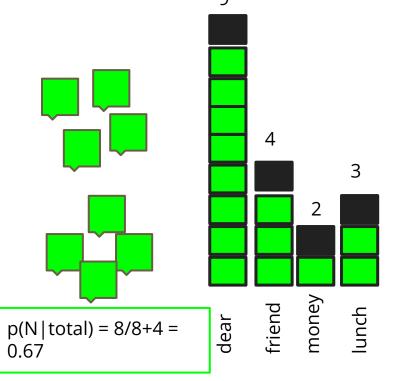
 $p(S) * p(lunch | S) * p(money | S) ^4$ 

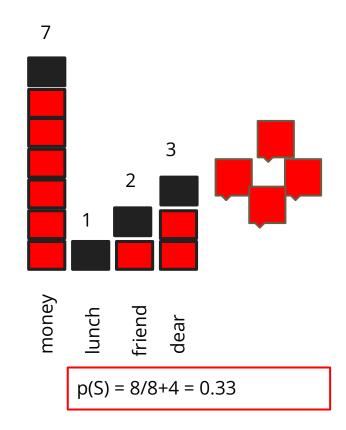
0.33 \* 0 \* 0.0053

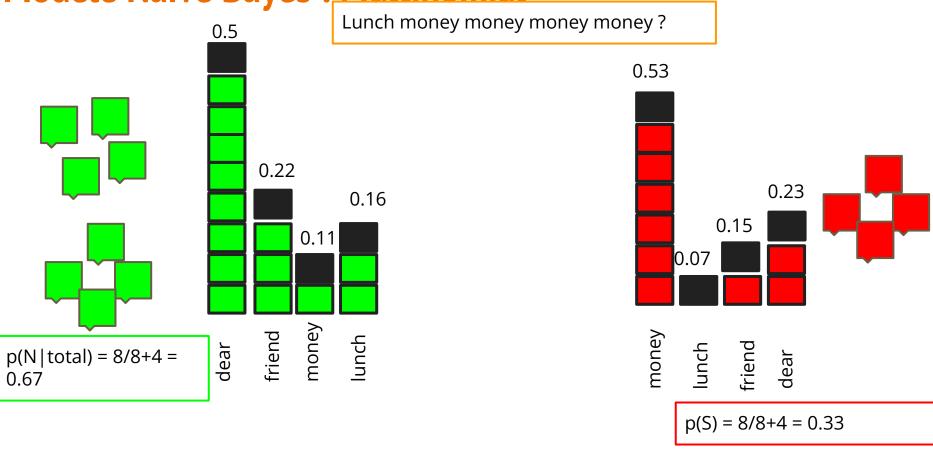
0

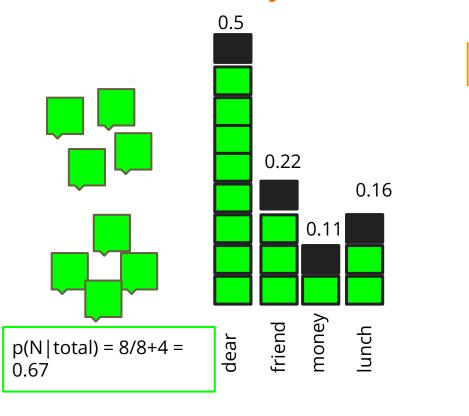












Lunch money money money ?

 $p(N) * p(lunch | N) * p(money | N)^4$ 

0.67 \* 0.16 \* 0.11^4

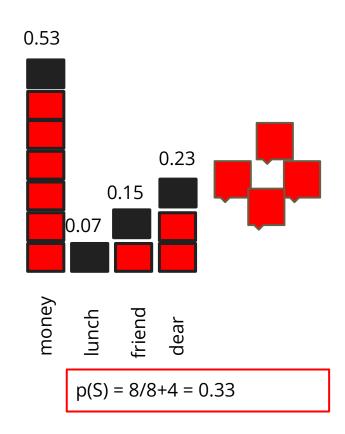
0.000015

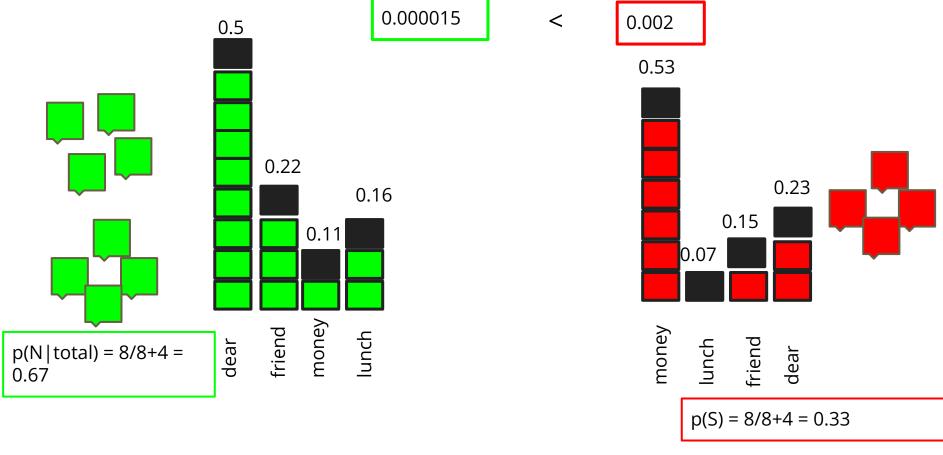
Lunch money money money ?

 $p(S) * p(lunch | S) * p(money | S) ^4$ 

0.33 \* 0.07 \* (0.53)^4

0.002





# Exemple tiré de StatQuest : https://www.youtube.com/channel/UCtYLUTtgS3k1Fg4y 5tAhLbw