$D_1 = 1 - 2Y \frac{N_2}{N_1}$ $D_2 = 2 - 3Y \frac{N_3}{N_2}$

• Optimal discounting parameters D_1, D_2, D_{3+} can be computed quite easily

 $Y = \frac{N_1}{N_1 + 2N_2}$

 $D_{3+} = 3 - 4Y \frac{N_4}{N_2}$

$$ullet$$
 Values N_c are the counts of n-grams with exactly count c