- For a particular n-gram α, we know its actual count r
- Any of the n-grams α_i may occur r times
- Probability that α is one specific α_i

$$p(\alpha = \alpha_i | c(\alpha) = r) = \frac{p(c(\alpha_i) = r)}{\sum_{j=1}^{s} p(c(\alpha_j) = r)}$$

- Expected count of this n-gram α

$$E(c^*(\alpha) | c(\alpha) = r) = \sum_{i=1}^{s} N \; p_i \; p(\alpha = \alpha_i | c(\alpha) = r)$$