



clustering • to make clusters so each cluster has similar





data.













Go and an example



e non-DP p(Z,
$$\pi$$
 |K) $p(Z|\pi, K) = \prod_{c=1}^{K} \pi_{c}^{N_{c}}$
 $D(\pi|K) = \frac{\Gamma(\alpha)}{\Gamma(\alpha/K)^{K}} \prod_{i=1}^{K} \pi_{i}^{\alpha/K-1}$
 $p(K)$
integral out π & take the limit of K
• DP p((Z)) $p([Z]) = \alpha^{K_{+}} \left(\prod_{k=1}^{K_{+}} \prod_{j=1}^{N_{k}-1} j\right) \frac{\Gamma(\alpha)}{\Gamma(N+\alpha)}$
"DP is an option of $p(Z, \pi, K)$ "











