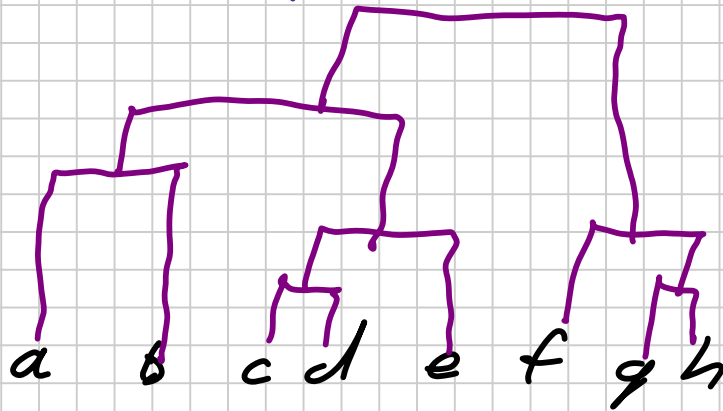


IR 22.5.05

Notiztitel

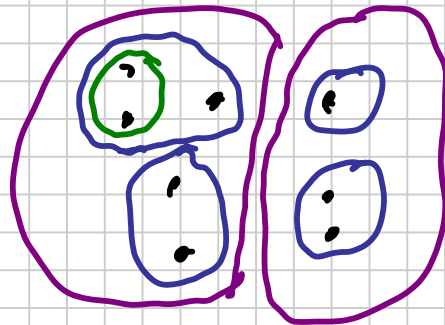
22.05.2006

Hierarchisches Clustern - Bottom-Up



Dendrogramm

Top-Down



$$n^j = \sum_{d_m \in D} P(C^j | x_m)$$

$$P(C^j) = p^j = \frac{n^j}{|D|}$$

$$P(x_i = 1 | C^j) = q_i^j \approx \frac{1}{n^j} \sum_{d_m \in D} x_{m_i} \cdot P(C^j | x_m) = \frac{1}{n^j} \sum_{\substack{d_m \\ x_{m_i} = 1}} P(C^j | x_m)$$

$$\approx \frac{1}{n^j + 1} \left(p^j + \sum_{d_m \in D} x_{m_i} \cdot P(C^j | x_m) \right)$$