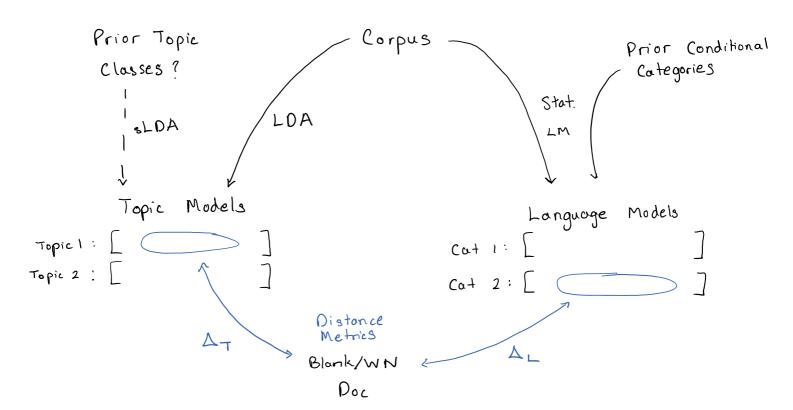
Project Planning

Sunday, April 1, 2018 7:09 PM



$$D = [d_1, d_2, \dots, d_N]$$

$$T_i = [t_{i_1}, t_{i_2}, \dots, t_{i_K}]$$

Word Net - weighted likelihood:

word-level: di, Ti

if
$$d_j$$
 in T_i : $T_i(d_j) = \rho(d_j|T_i)$
lse: find argmin $WN(d_j, t_i|k) = t_j \rightarrow$

if
$$d_j$$
 in T_i : $T_i(d_j) = \rho(d_j|T_i)$
else: find argmin $WN(d_j, t_i|K) = t_j \rightarrow \frac{T_i(t_i)}{WN(d_j, t_j)} = \rho(d_j|T_i)$

$$p(T_i|D) = \prod_{p} \widetilde{p}(d_j|T_i)$$

For torget topic
$$T^*$$
, maximize $\rho(T^*lD) = \prod_{p} \rho(dj lT^*)$

Language Model:

maximize likelihood argmax p(D1L;) giren language Lz'