- query expansion: $q = \{t_1, \ldots, t_x\}$ (if it is difficult)

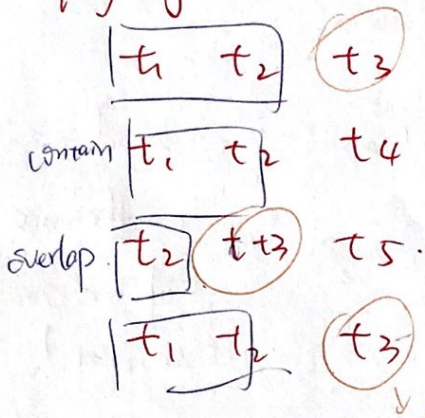
↓

$q' = \{t_1 \ldots$ cover $(t_i) \ldots\}$. transfer it to a easier query

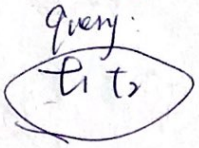
(but has extra cost for an easy query).

- log mining

query log:

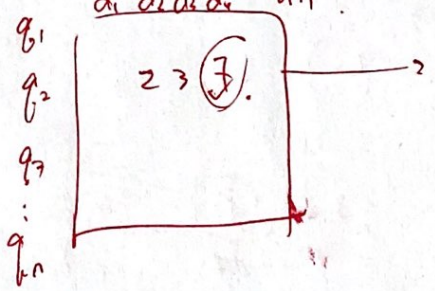


query:

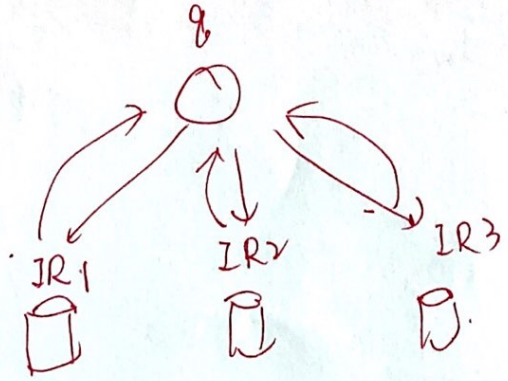


↘ may be suggested as expansion.

- incorporate collaborate. ...



- merging results.



(what weights of the query we would like to allocate to different IR systems)

query's difficulty can be different ~~from~~ for each IR system.

We need to fix calculate how good the result returned.

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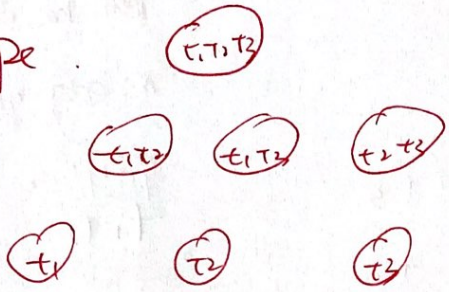
be able to assign weighting to every term. $q = \{t_1, t_2, t_3 \cdots t_m\}$

pre-retrival: cheaper. but not that good.

$q = t_1 \quad t_2 \quad t_3$.

query scope.



-> hard to ~~know~~ if there's coefficience between them. (if we can remove ~~any~~ them ~~A~~ or not).

post-retrival.

$q = (t_1, t_2)$.