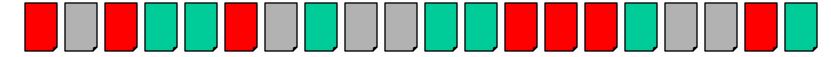
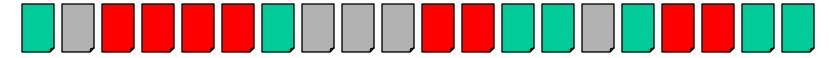
Query A: R = 10



Query B: R = 15



Query C: R = 12



## Formulae

- Precision = relret / ret
- Recall = relret / rel
- AP = Sum(P) / #rel
- MAP = Sum(AP) / Q
- P@n = #relret@n / n
- R@n = precision at recall = n
- R-Precision = recall @ (ret = R)

## Formulae 2

- Reciprocal Rank =  $1/(1^{st} r)$
- MRR = Sum(RR) / Q
- Bpref = 1/R ( Sum (1 (n above r < R) / R))
- F1 = (1+(B\*B)) / (((B\*B)/R) + (1/P))
- B = 1 for balanced
- B < 1 for precision preference
- B > 1 for recall preference