

# Mean Average Precision (MAP)

- Average Precision:
  - The average of precision at every cutoff where a new relevant document is retrieved
  - Normalizer = the total # of relevant docs in collection
  - Sensitive to the rank of each relevant document
- Mean Average Precisions (MAP)
  - MAP = arithmetic mean of average precision over a set of queries
  - gMAP = geometric mean of average precision over a set of queries
  - Which is better: MAP or gMAP?