Information Retrieval - Exercise Sheet 2

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Metrics

- 1. In the notes, we discussed how precision and recall can be used to measure the quality of an answer set. Suggest any other non user-oriented measure that could be used to measure the quality of the answer set. How would this measure interact with precision and recall.
- 2. The concepts of true positives (where the IR system returns a relevant document), true negatives (where the IR system doesn't return a non-relevant document), false positives (where the system returns a non-relevant document as relevant) and false negatives can be used to reason about IR metrics. Define recall and precision as functions of true positives, false positives etc.
- 3. The notion of accuracy is often used in machine learning domains and is defined as (tp+tn)/(tp+tn+fp+fn). Why is this not a suitable measure in IR?