Error-tolerant Query Autocompletion

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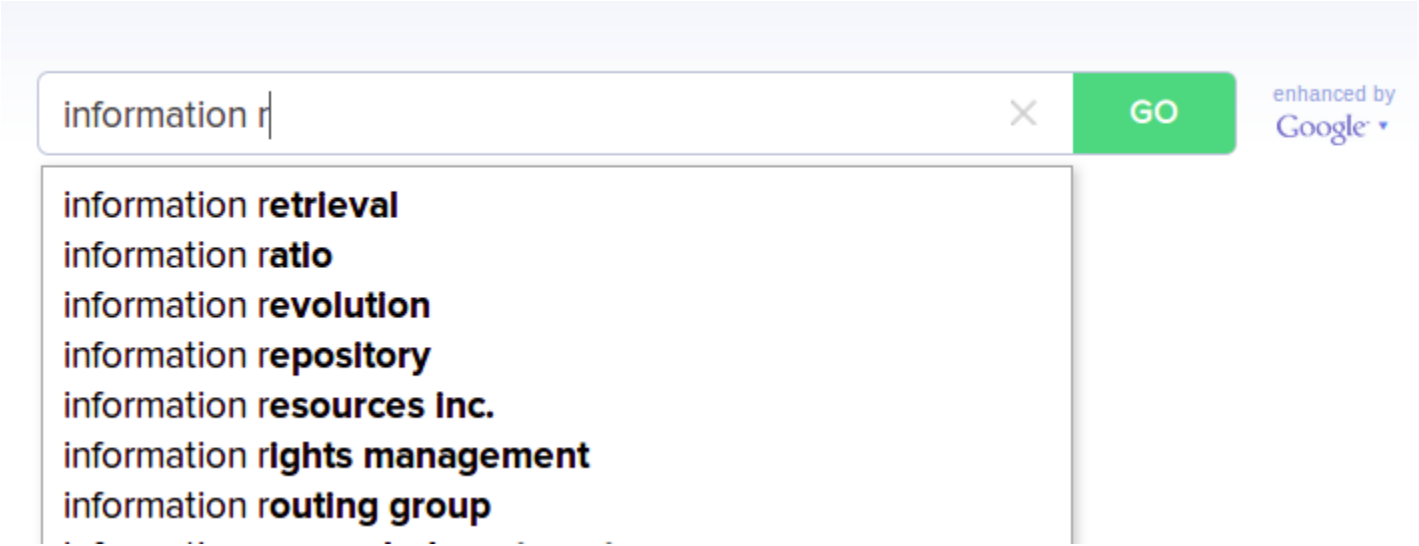
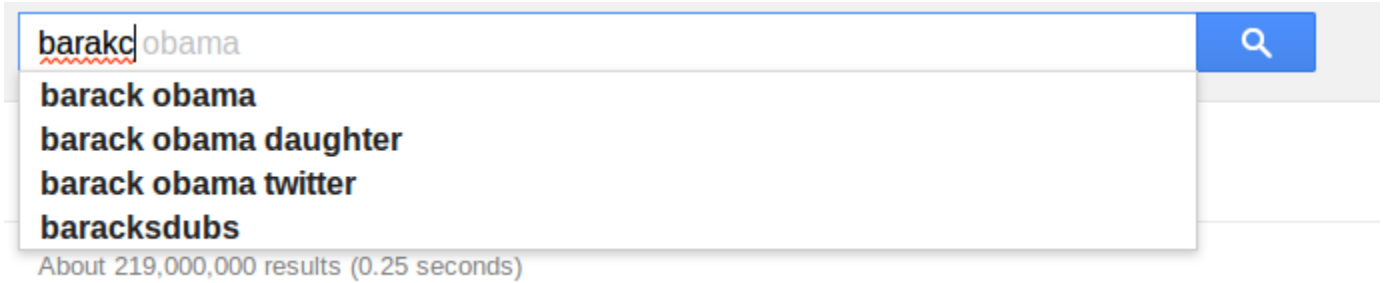
Problem Description

- Predicts the rest of a query that a user is typing



Problem Description

- Minor typing errors should be ignored



Motivation

- help user to reformulate her query
- predict the query
- save time

Methodology

- Proposed solutions in [1] | [2]
  - When user types a query, its variations are find from Trie (index) using edit distance

- Efficiency improvements

References

[1]C. Xiao, J. Qin, W. Wang, Y. Ishikawa, K. Tsuda and K. Sadakane, 'Efficient error-tolerant query autocompletion', Proceedings of the VLDB Endowment, vol. 6, no. 6, pp. 373-384, 2013.

[2]S. Chaudhuri and R. Kaushik, 'Extending autocompletion to tolerate errors', Proceedings of the 35th SIGMOD international conference on Management of data - SIGMOD '09, 2009.

[3]Z. Bar-Yossef and N. Kraus, 'Context-sensitive query auto-completion', Proceedings of the 20th international conference on World wide web - WWW '11, 2011.