

# Information Retrieval

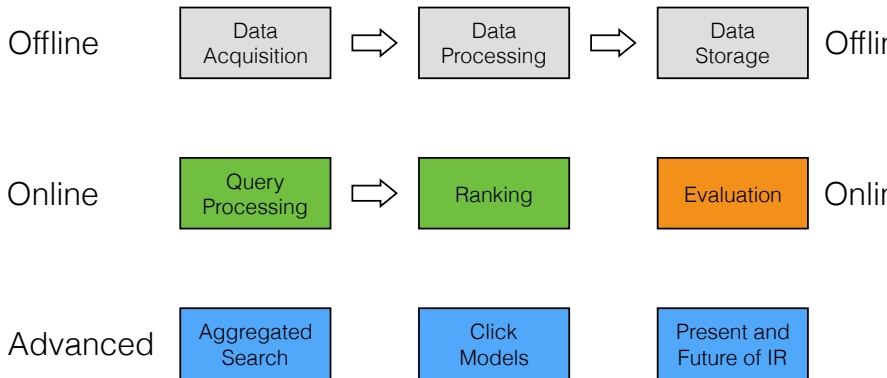
## Introduction

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# Course structure



- ① September 10–11, Standard IR
  - Evaluation
  - Data acquisition
  - Data processing and storage
- ② October 15–16, Standard IR
  - Query processing
  - Ranking
    - content-based
    - link-based
    - user-based
    - learning-to-rank
- ③ November 19–20, Advanced IR
  - Aggregated search
  - Click models
  - Present and future of IR

# Prerequisites

- Calculus
- Statistics
- Algorithms and theory of computations
- Machine learning

- 20% – homework assignments
  - 1st not graded
  - 2nd and 3rd graded
  - HW discussions
- 40% – written exam
- 40% – project

- B. Croft, D. Metzler, T. Strohman  
**Search Engines, Information Retrieval in Practice**  
<https://ciir.cs.umass.edu/irbook>
- C. Manning, P. Raghavan, H. Schütze  
**Introduction to Information Retrieval**  
<http://nlp.stanford.edu/IR-book>
- R. Baeza-Yates, B. Ribeiro-Neto  
**Modern Information Retrieval**  
<http://www.mir2ed.org>
- Scientific surveys and papers

If you have an idea for an IR-related project,  
let's discuss it.

If you do not have such an idea,  
let's find one for you.