





한글날 도서관 휴관

검색

포탈 검색시스템은 포탈, 전화번호, 홈페이지, 공문서식, 원규집, IT서비스안내, 기타 웹 사이트 등을 대상으로 서비스 합니다. [상세보기](#)

<b>전체검색(3)</b>	>
포탈(3)	>
홈페이지(0)	>
공문서식(0)	>
원규집(0)	>
IT서비스안내(0)	>
<b>연동시스템펼치기(0)</b>	▼
기타 웹 사이트(0)	>

**포탈(3건)**

[학생공지사항] [도서관 휴관 안내\(한글날\)](#) [새창으로]      홍창수 / 2014-10-06

다음과 같이 **도서관**을 휴관하오니 이용에 참고하시기 바랍니다.  
다 음 - - 휴관일 : 2014.10. 9(목) - 사 유 : **한글날** -...

[업무공지사항] [도서관 휴관안내\(한글날\)](#) [새창으로]      양기홍 / 2013-10-07

한글날을 맞이하여 아래와 같이 **도서관**을 휴관하오니 이용에 참고하시기 바랍니다.  
- 아 래 - ◇ 일  
시: **한글날** 10.9(수) ◇ 대상: 중앙**도서관**, 문지캠퍼스 **도서관**...

[학생공지사항] [도서관 휴관 안내](#) [새창으로]      홍창수 / 2015-10-05

= 다 음 = ◎ 휴관일 : 2015. 10. 9.(금) ◎ 사 유 : **한글날** ◎ 대 상: 중앙**도서관**, 교양  
분관, 문지캠퍼스 **도서관**      ※ 교양분관 열람실은 24시간 개방합니다....

**결과 내 재검색**

검색

**검색대상**

전체  제목  본문

2014

2013

2015

**인기검색어**

- 1 근로학생 -
- 2 강의평가 -
- 3 수강신청 -
- 4 계절학기 -
- 5 성적계시기.. -
- 6 기숙사 -
- 7 장학금 -
- 8 학적팀 -
- 9 학자금 -
- 10 채용설명회 -

**내가 찾은검색어**

- 한글날 도...
- 한글날 도...
- 한글날 도...

# 도서관 휴관 안내

## Library Closure Information

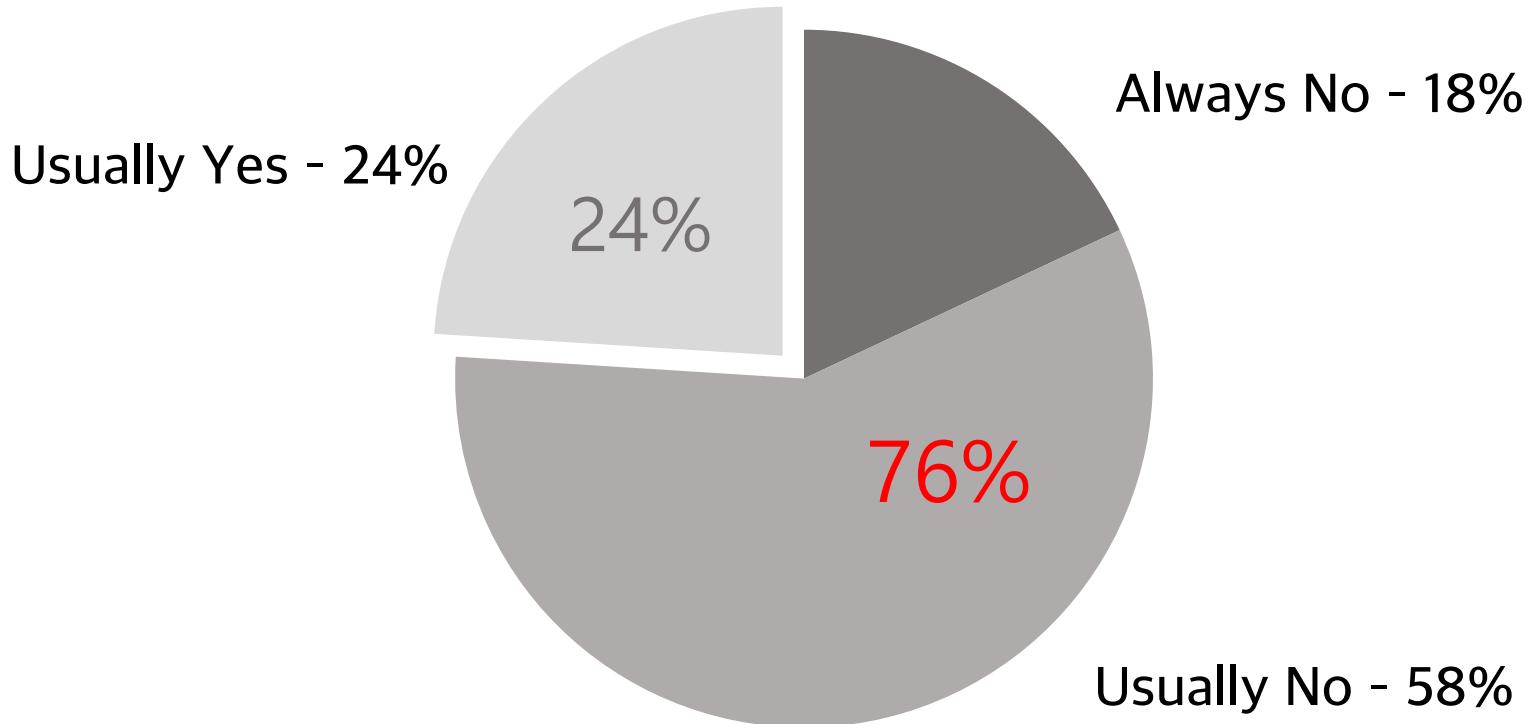
휴관일 : 2018. 10. 9.(화)

사 유 : 한글날

대 상 : 학술문화관(도서관), 교양분관, 문지도서관

※ 교양분관 열람실은 24시간 개방합니다.

# Have you found looking information easily with KAIST Portal Search?



From 136 KAIST people

# xIS: extended Infomation Search



TEAM CREAMBEARS

Hyunwoo Kang, Jaemin Hong, Jiseok Kim

# Problem

“ It is hard to find looking articles in KAIST Portal using its search engine. ”

# Definition

What Is a Portal Article?

Newsletter

Today Notice

International Community

Sports & Health/Clinic

R&D Notices

Leadership/Intern/Counseling

## Portal Article

Scholarship/Welfare

Academic courses

Recruiting

IT Service

GSC/USC Notice

Lecture/Academic/Paper

Dormitory

Seminar/Events

Student Notice

Manuals/Forms

# Background

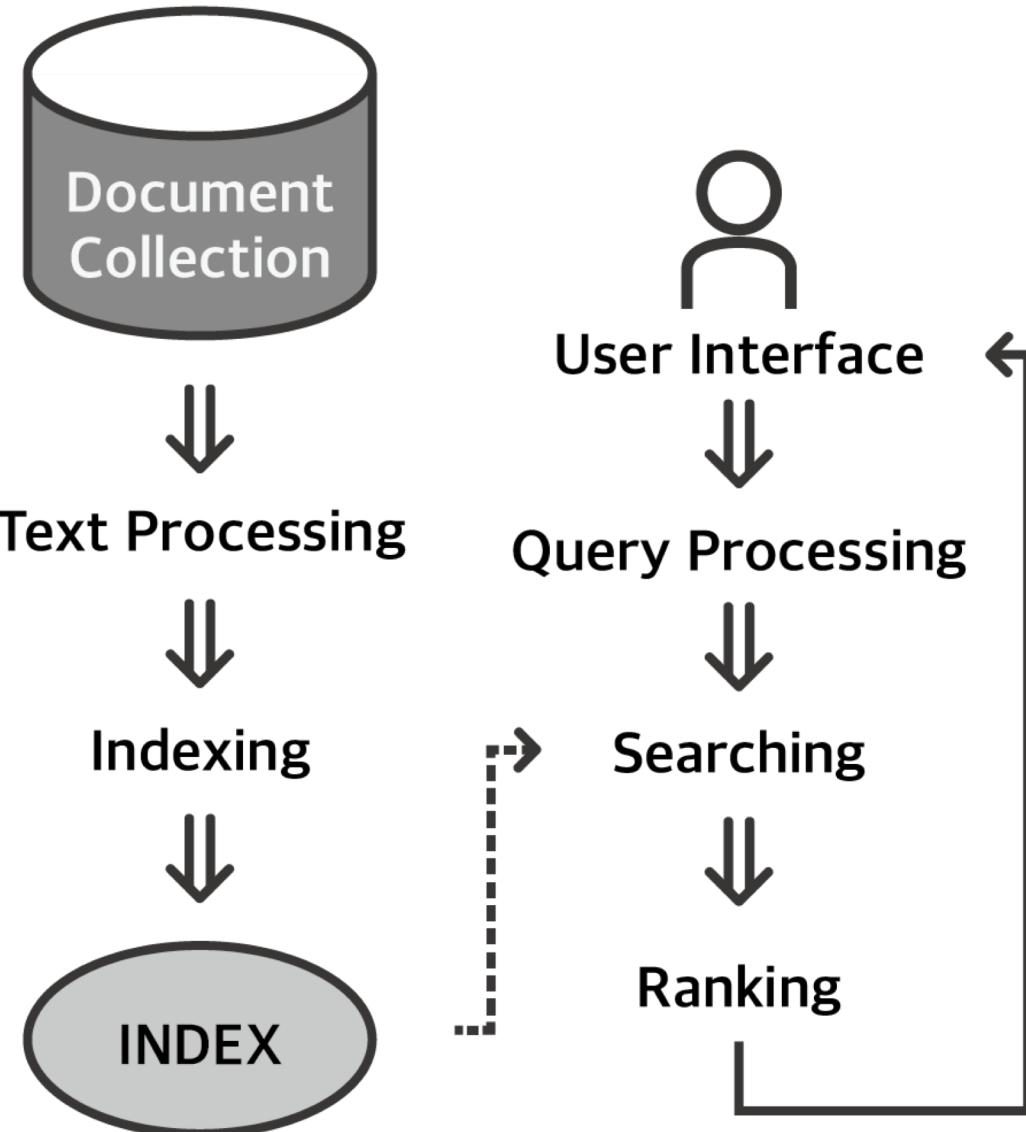
**Mechanism**  
of General Search Engines

&

**Characteristics**  
of Portal Articles

# Mechanism

Search Engine



# Background

Mechanism  
of General Search Engines

&

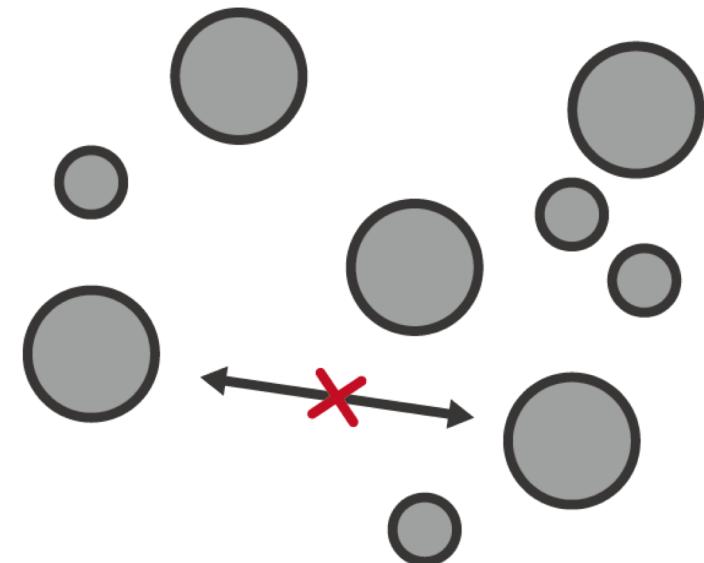
Characteristics  
of Portal Articles

# Characteristics

Portal Articles

## 1. Very rare hyperlinks

Only 1/100 article has a link to another article.



# Characteristics

Portal Articles

## 2. Posters and screenshots



44/100 articles have images.

19/100 articles are uploaded with only images.



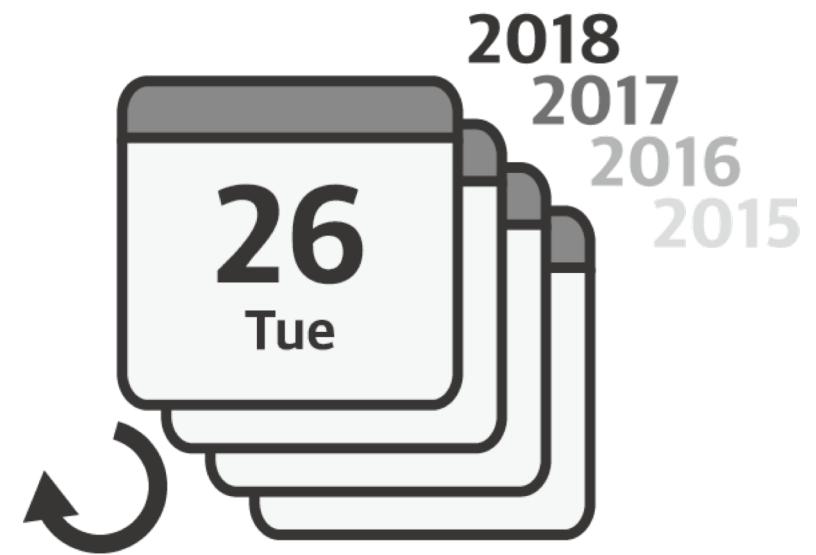
# Characteristics

Portal Articles

## 3. Repeated events



39/100 articles are  
about repeated events.



# Characteristics

Portal Articles

## 4. Unfamiliar official words

KAIST-POSTECH 학생대제전 VS 카포전

KAIST Clinic VS 파팔라도

학위 수여식 VS 졸업식

생활관 VS 기숙사

...

제목	2018 KAIST-POSTECH 학생대제전 우승기 전달식 개최 안내
작성자(소속)	조재영(학생지원팀)
작성일(조회수) 2018.09.28 20:35:53(1156)	
첨부파일	

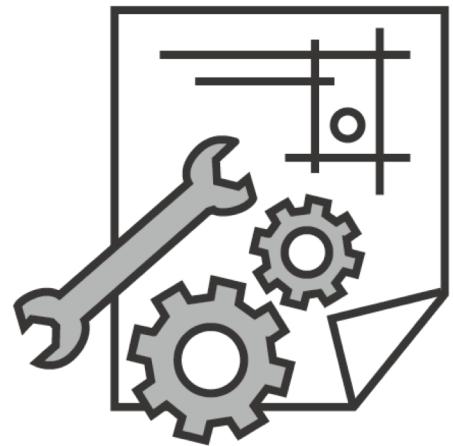
2018 KAIST-POSTECH 학생대제전 종합우승을 기념하고 고생한 학생들에 대한  
격려와 KAIST 학생들에게 자긍심 고취를 위하여 다음과 같이 우승기 전달식을  
개최 하오니 학생들의 많은 참석을 부탁드립니다.

- 다 음 -

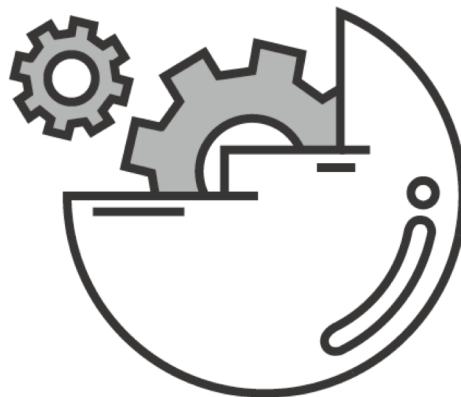
행사개요

- 행사명 : 2018 제17회 KAIST-POSTECH 학생대제전 우승기 전달식
- 일 시 : 2018. 10. 1(월), 12:05
- 장 소 : 창의학습관 1층, 로비

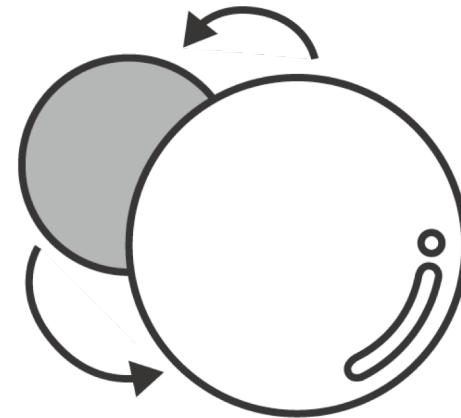
# Possible Solutions



Make an entirely  
new system

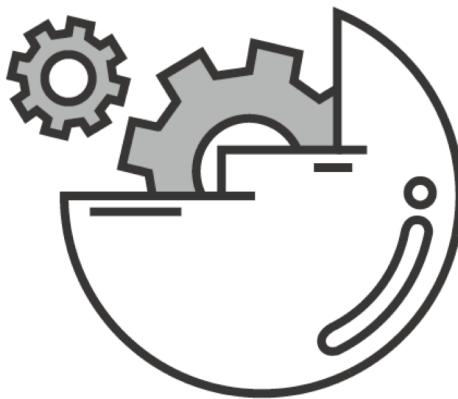


Customize an  
existing search engine

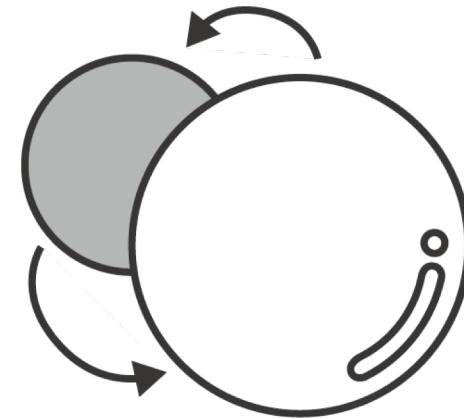


Replace with an existing  
search engine

# Possible Solutions

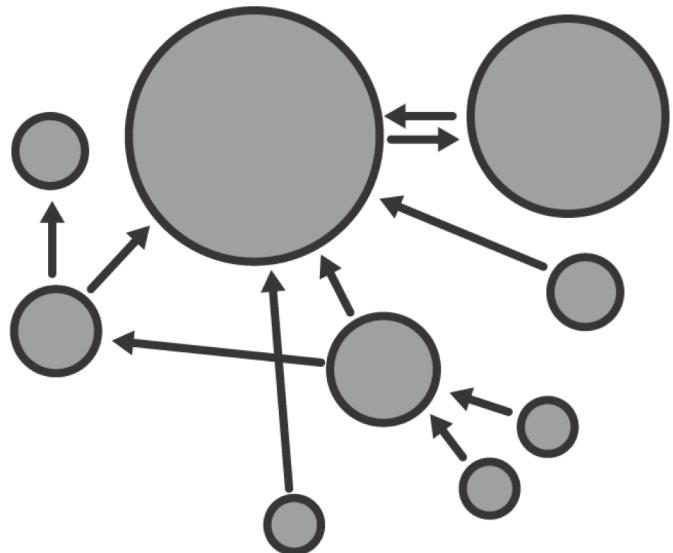


Customize an  
existing search engine

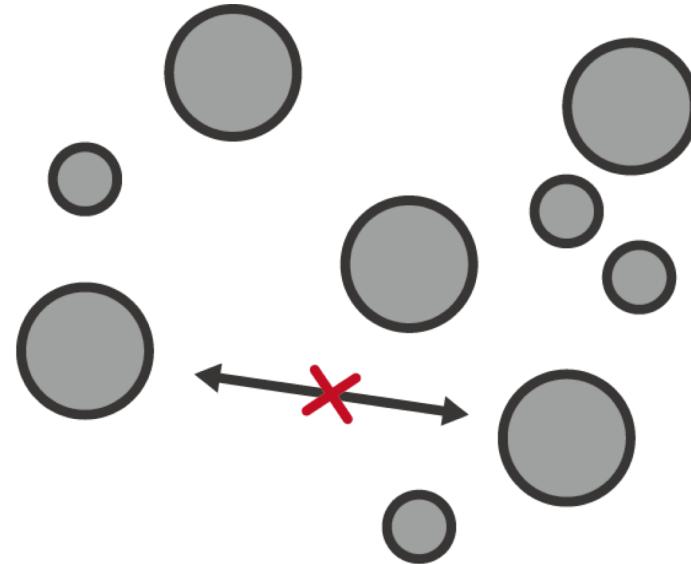


Replace with an existing  
search engine

# Why Not Google?

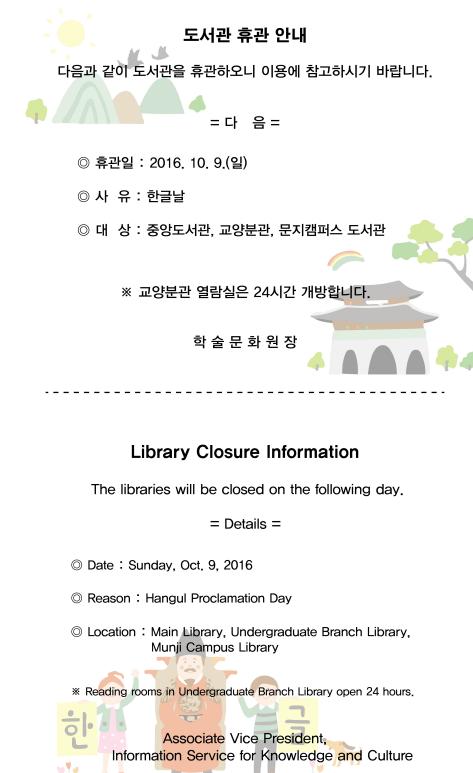
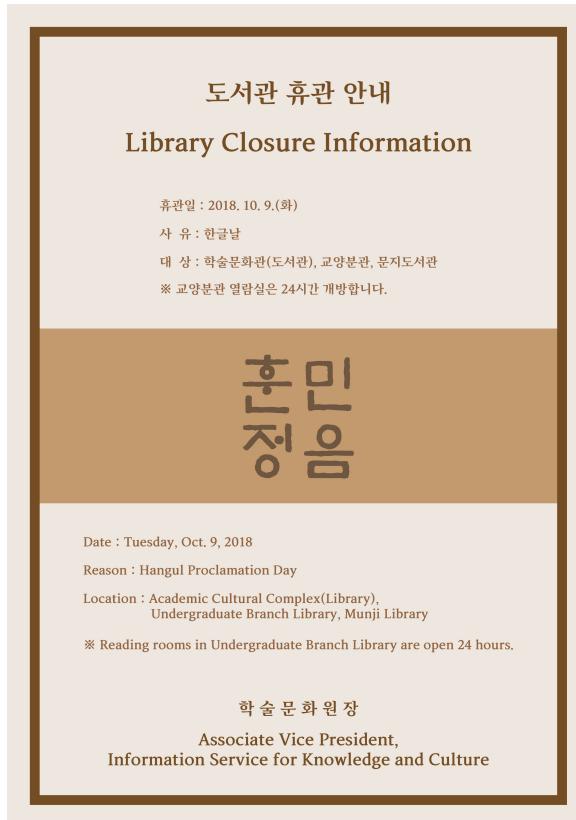


PageRank Algorithm



Portal Articles

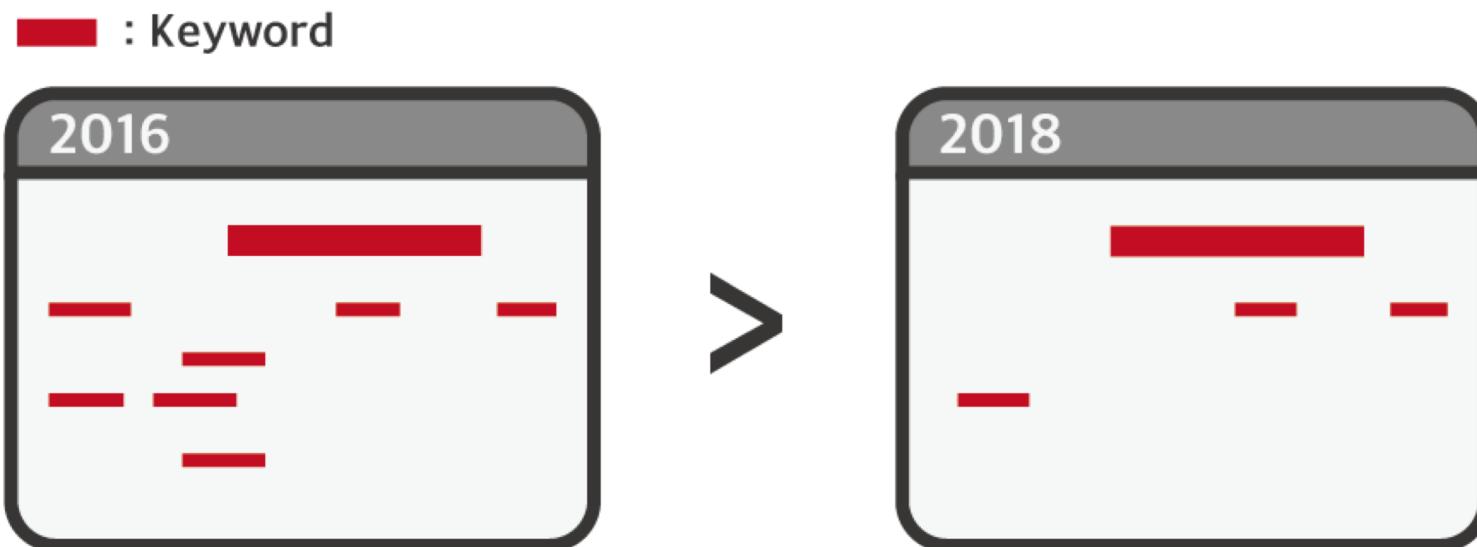
# How about Others?



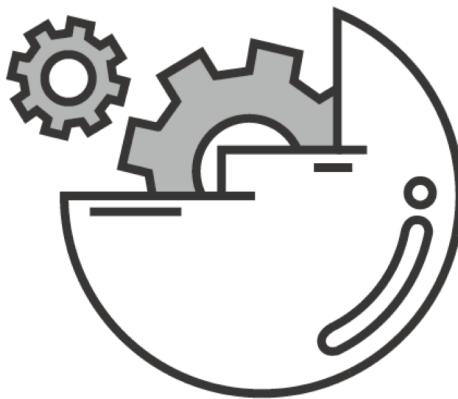
Posters with important information

# How about Others?

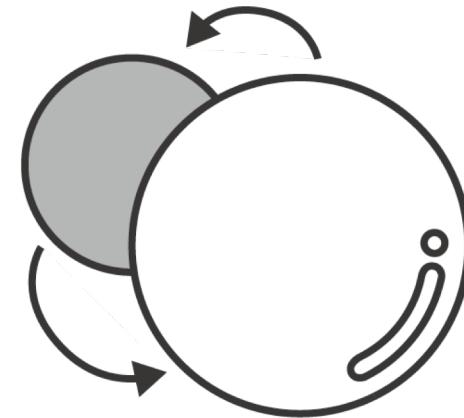
**TF-IDF:** Term Frequency-Inverse Document Frequency



# Possible Solutions



Customize an  
existing search engine



Replace with  
existing search engine

# The Possible Solution

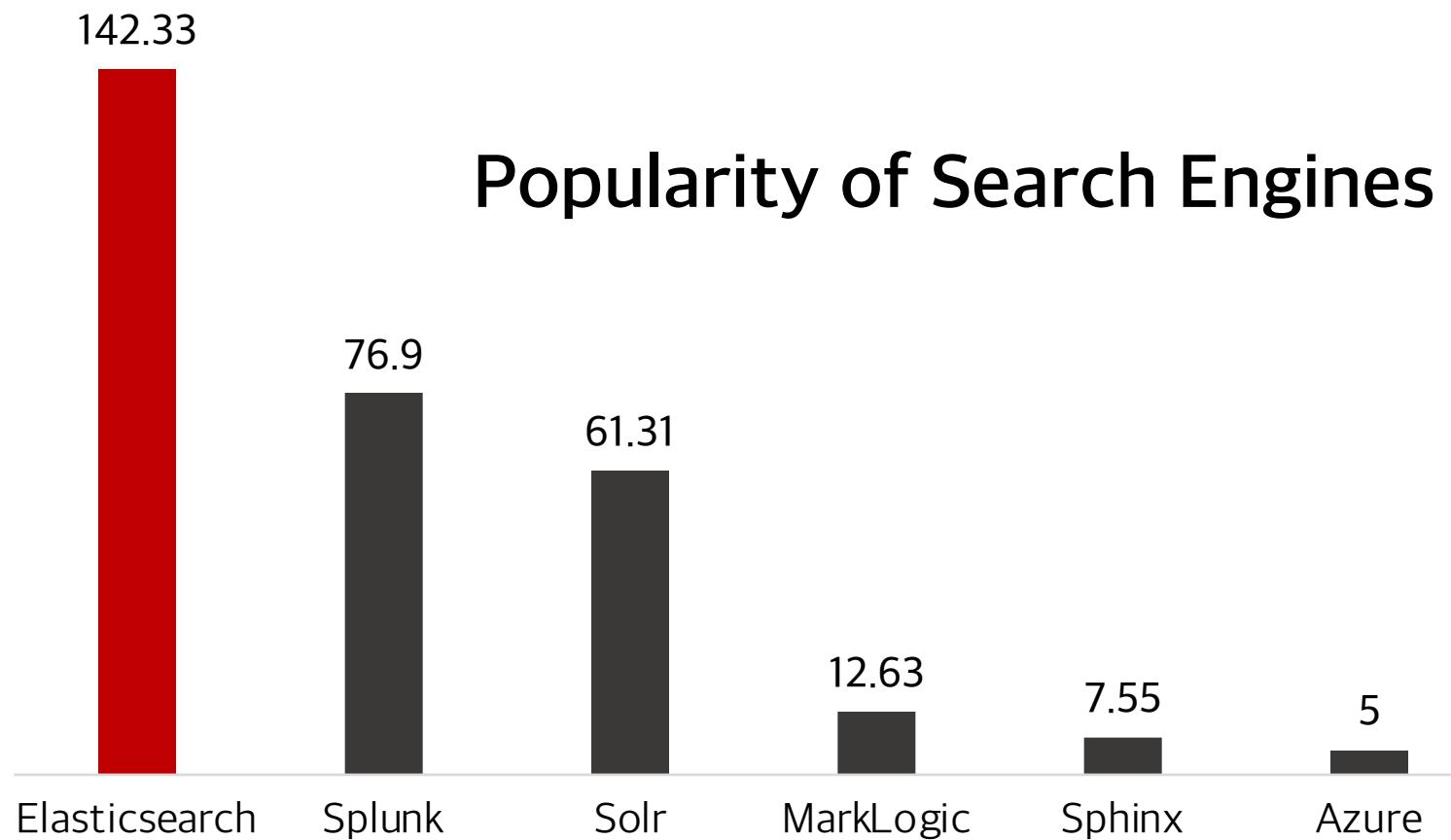


Customize an  
existing search engine



elasticsearch

# Why Elasticsearch?



# Why Elasticsearch?



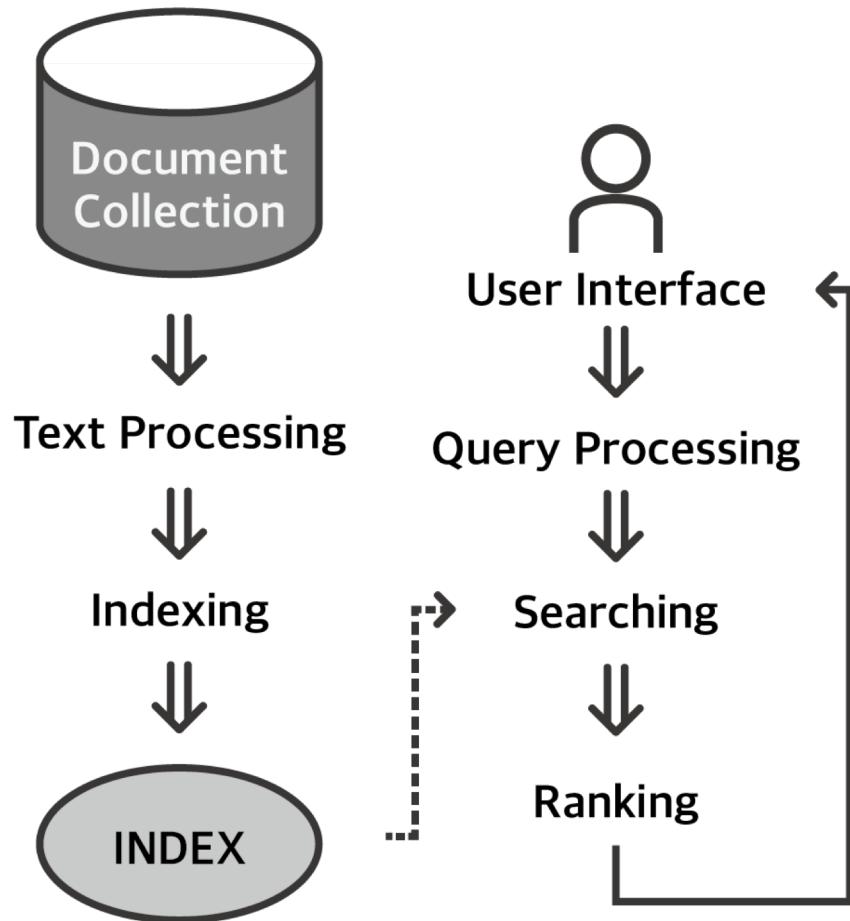
**Elasticsearch is customizable**

Document format

Ranking function

...

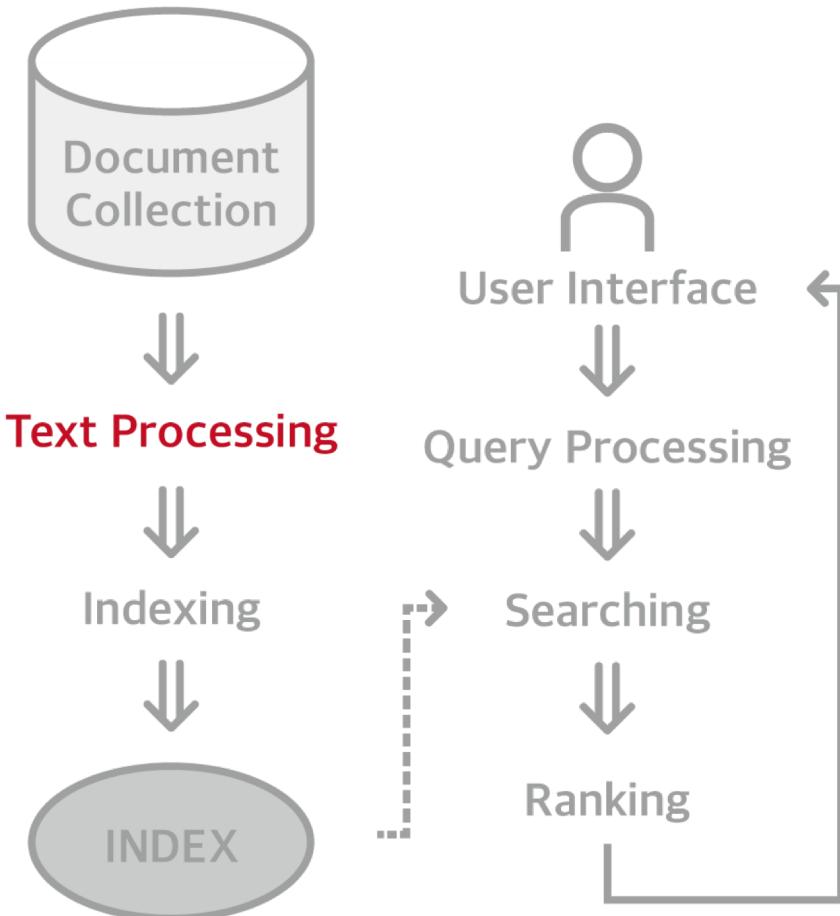
# Implementation



Customize some steps to deal with  
characteristics of Portal articles properly

# Implementation

Text Processing



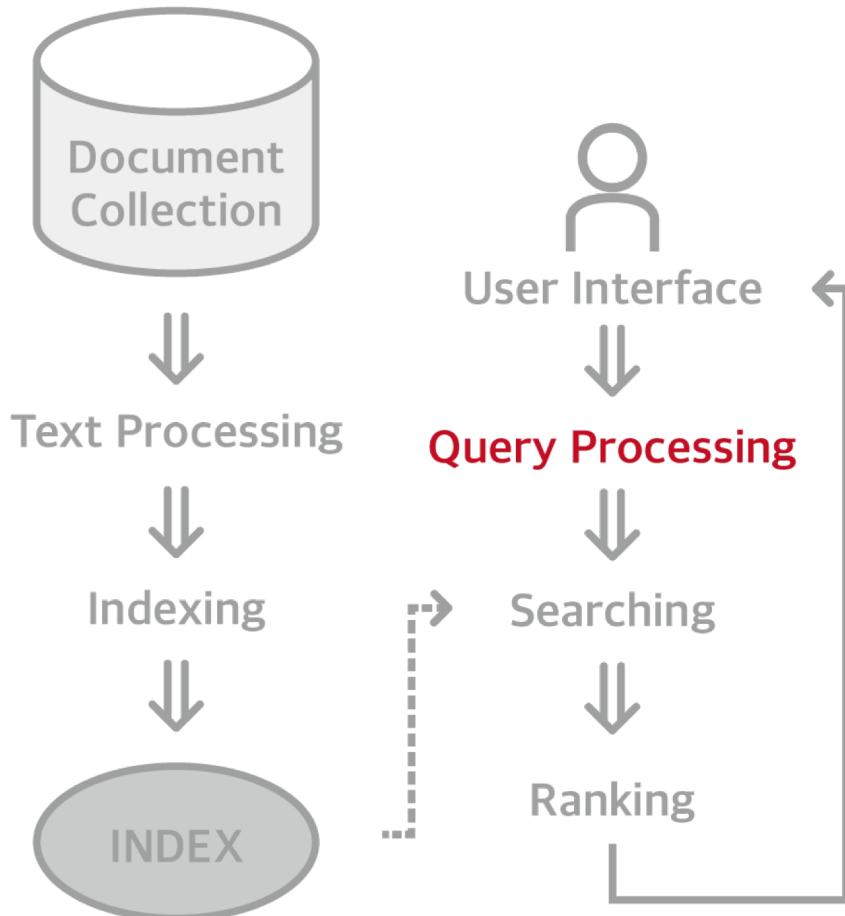
Tokenizing & stemming

Extracting texts from posters

Collecting metadata

# Implementation

## Query Processing

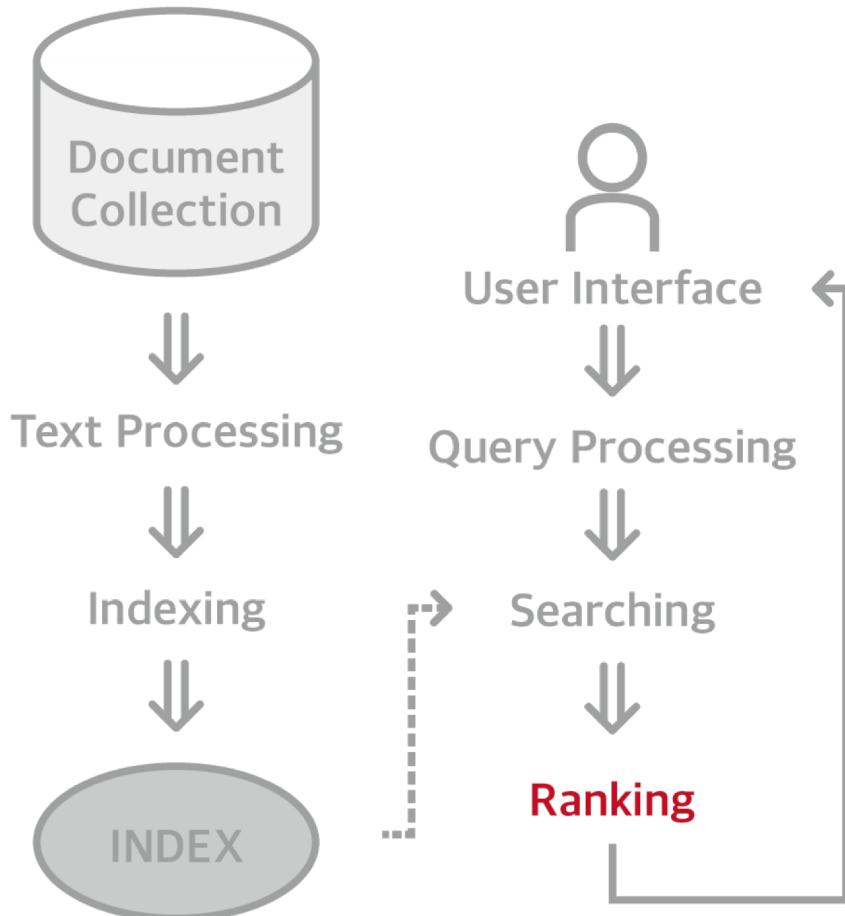


### Handling synonyms

- Analyzing user's search behaviors

# Implementation

Ranking



TF-IDF

Considering metadata

- Creation date
- Hits

# Evaluation



Portal  
Search

vs



elasticsearch

vs

xIS

# Evaluation

