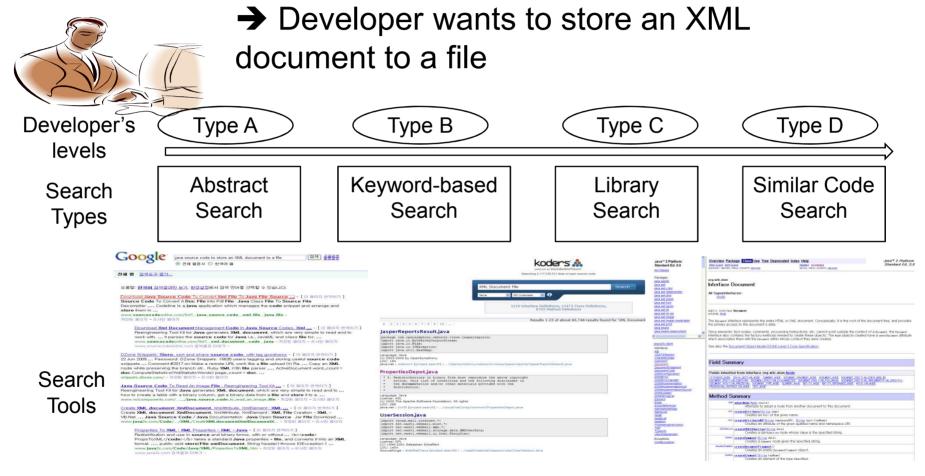
Lightning Talk

What is functionality of source code search engine required by developers?

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POSTECH

Concrete Application Scenario



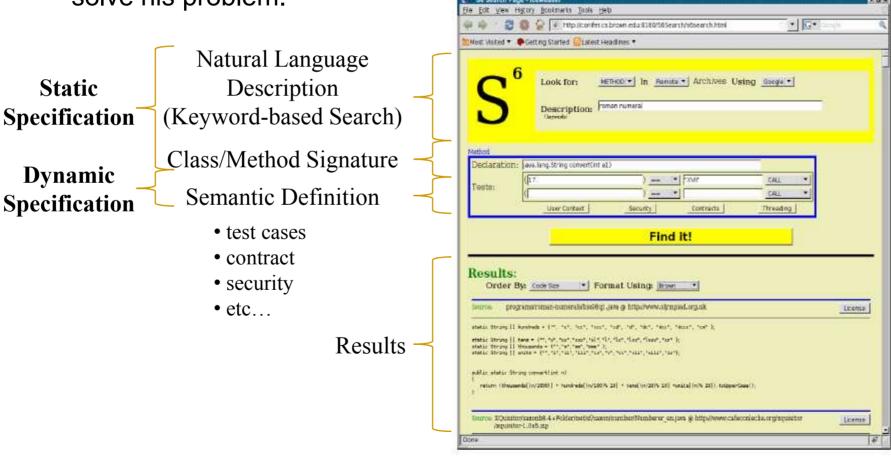
→ Need additional functionalities of source code search engines

Functionality of Source Code Search Engine

Type A, B (Seteven P. Reiss, Semantic-based code search, ICSE09)

Developer has no idea of what libraries or packages can be used to

solve his problem.



Functionality of Source Code Search Engine

- Type C (Jinhan kim et al, Automatic Generation of Example Oriented API Document, submitted to ASE2010)
 - Developer knows what libraries or packages should be used, but does not know how they should be used.



On Going Work

Type D

- Developer knows both what libraries or packages should be used and how they should be used.
- □ But, he want to detect similar codes for the purpose of as follows:
 - Well-written source code reference
 - Clone Detection
 - Bug Detection, etc

Source Code Repository Structure Information Extraction

Indexing Technique

Scalable and Accurate Detection of Similar Codes