Text-to-Code Retrieval Code Contest Retrieval

- Query: problem description - Docs: code solution

Web Query Code Retrieval

- Query: web queries in text - Docs: code snippet
- Text-to-SQL Retrieval - Query: question in text
 - Docs: SQL queries

Code-to-Text ***** Retrieval

Code Summary Retrieval

- Query: code snippet - Docs: code summary

4 main tasks 8 sub-tasks 10 datasets

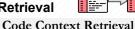


CoIR Benchmark

14 main languages:

python, sql, go, java, js, c, css, php, c++, html, rust, shell, swift, ruby

Code-to-Code Retrieval



- Query: former part of code - Docs: latter part of code Similar Code Retrieval
- Query: code in one lang - Docs: code in another lang

Hybrid Code Retrieval



- Single-turn Code QA
- Query: question in text/codeDocs: answer in text/code
 - Multi-turn Code OA
 - Query: question in text/code - Docs: answer in text/code