

# 基于字典的 tf-idf & 字符串搜索系统

—— 《人工智能综合设计》课程报告

王胤博 2024.9.2

# Walk-Through

Domain1 (e.g. <http://ai.ruc.edu.cn>)



../../index.html content.txt segs.txt

Domain2 (e.g. <https://statr.me>)



../../index.html content.txt segs.txt

Domain3 (e.g. <http://stat.ruc.edu.cn>)



../../index.html content.txt segs.txt

Domain4 (e.g. <https://cosx.org>)



../../index.html content.txt segs.txt

Domain5 (e.g. <https://jiqizhixin.com>)



../../index.html content.txt segs.txt

... ..

... ..

# Walk-Through

../../index.html content.txt segs.txt



term\_counts & inv\_index for Domain1

../../index.html content.txt segs.txt



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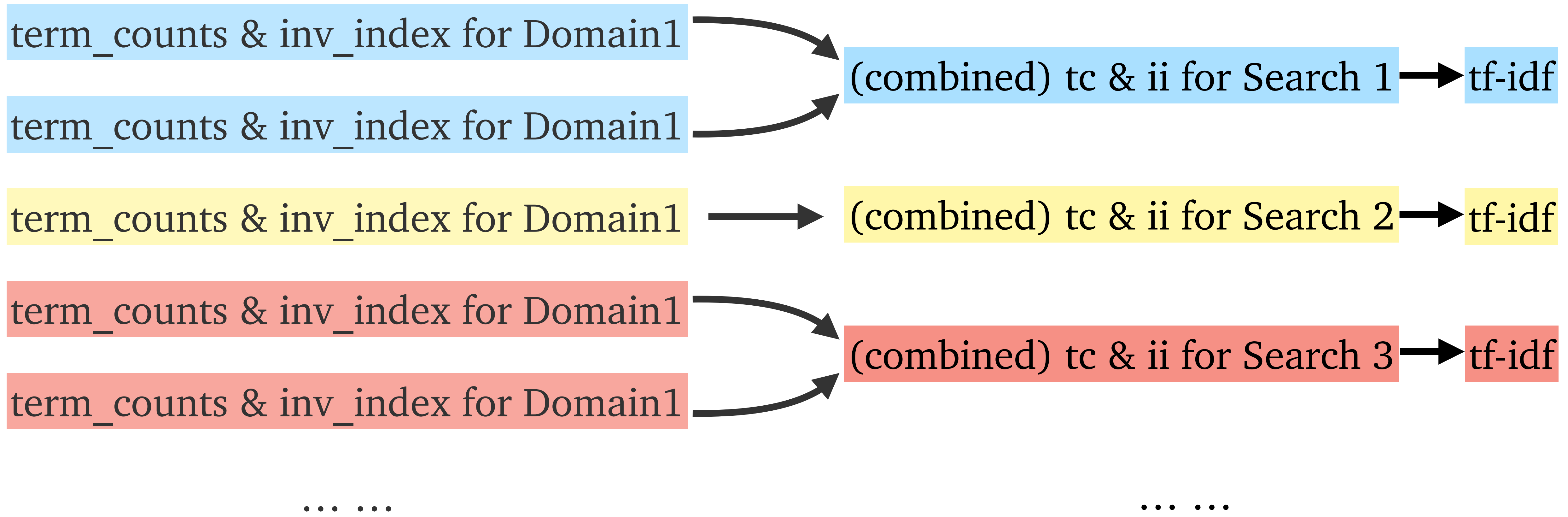


term\_counts & inv\_index for Domain1

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... ..

# Walk-Through



# Walk-Through

(combined) tc & ii for Search 1 → tf-idf × tf-idfs ← QUERYs (Search 1)

(combined) tc & ii for Search 2 → tf-idf × tf-idfs ← QUERYs (Search 2)

(combined) tc & ii for Search 3 → tf-idf × tf-idfs ← QUERYs (Search 3)

... ..

... ..

# Dict-base

../../index.html content.txt segs.txt



term\_counts & inv\_index for Domain1

../. term\_counts: dict[dict]=domain:{doc1:{{word1:count},{.}.}.} Domain1

../. inv\_index: dict[list]=domain:{word1:[doc11, doc12, .], word2:[.],..} Domain1

../../index.html content.txt segs.txt



term\_counts & inv\_index for Domain1

../../index.html content.txt segs.txt

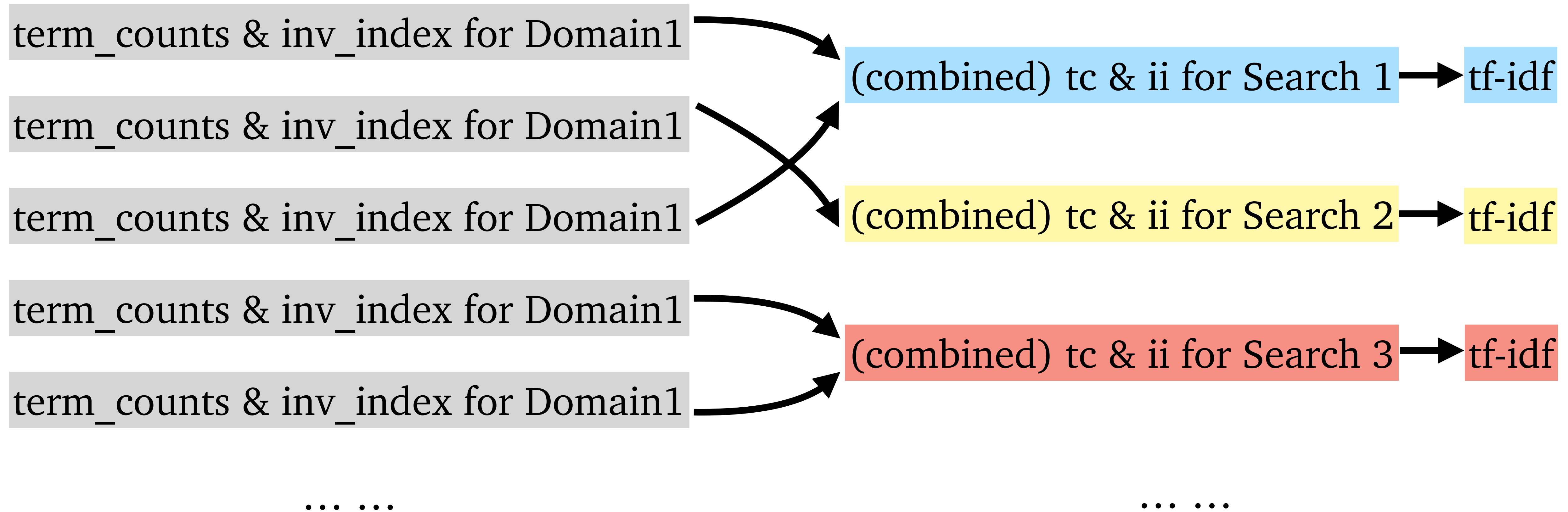


term\_counts & inv\_index for Domain1

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# Domain-base



# Search

