

Information Retrieval

Exercise – Winter term 2025/2026

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Agenda

1. Project Status
2. Architecture of a Search Engine
3. Pooling
4. Assignment

Project Status

Each team, shortly give us a summary of how you perceived the annotation process.

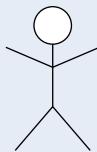
Project Status

Each team, shortly give us a summary of how you perceived the annotation process.

What was the most difficult part?
What have you learned?

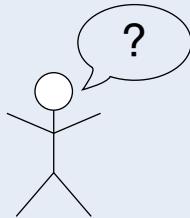
Architecture of a Search Engine

Karaoke Version



Architecture of a Search Engine

Karaoke Version



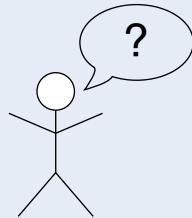
Architecture of a Search Engine

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Indexing

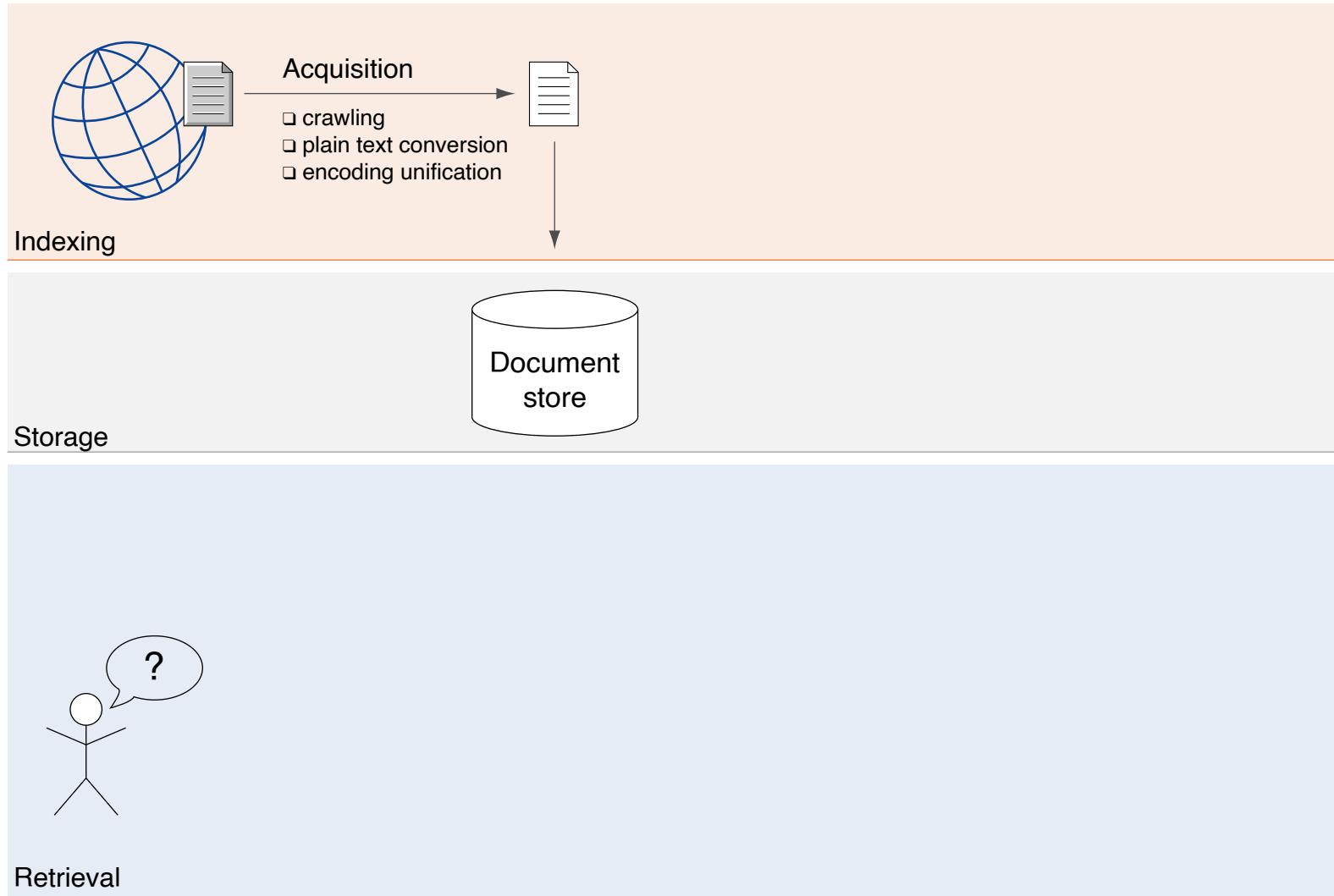
Storage



Retrieval

Architecture of a Search Engine

Karaoke Version



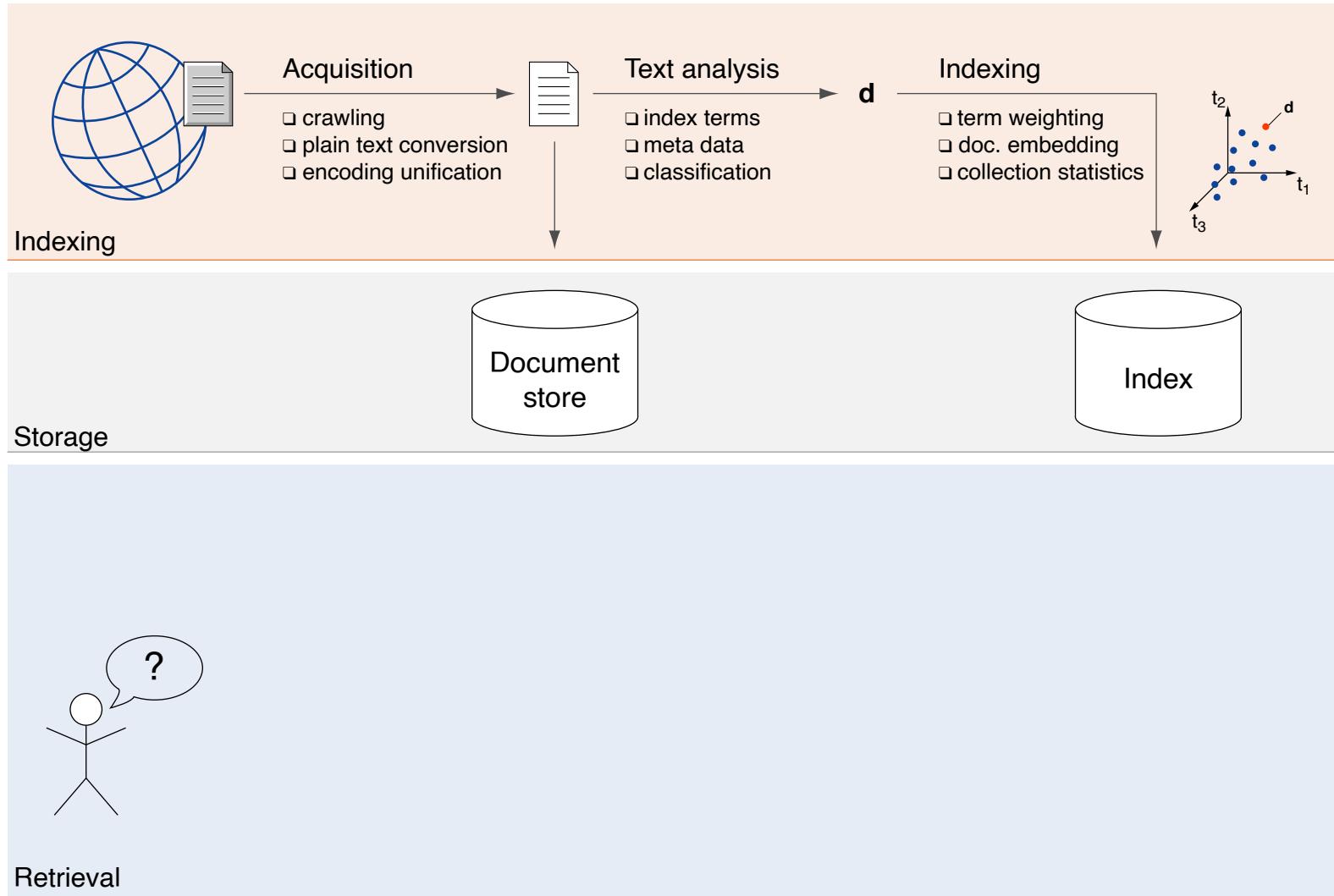
Architecture of a Search Engine

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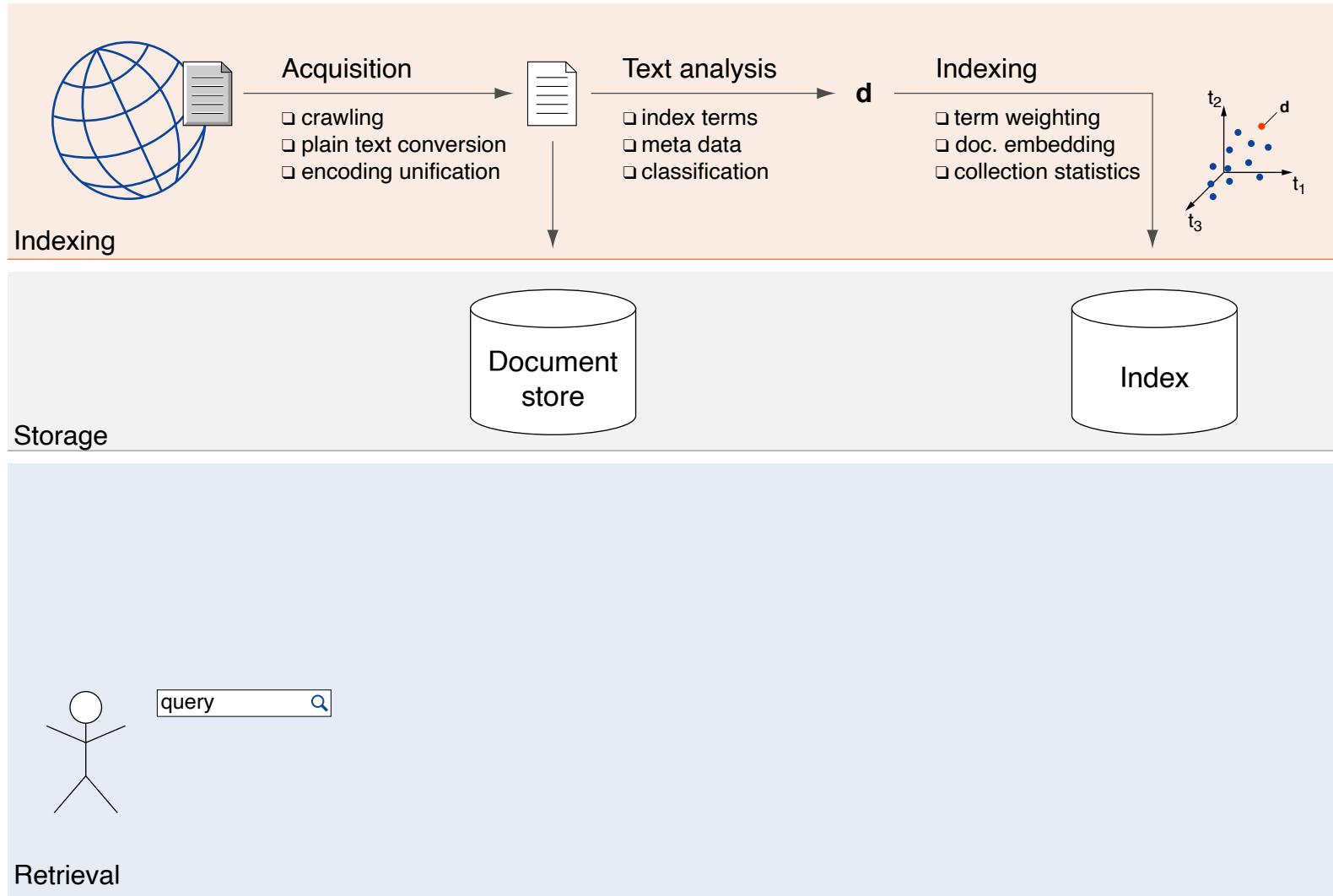
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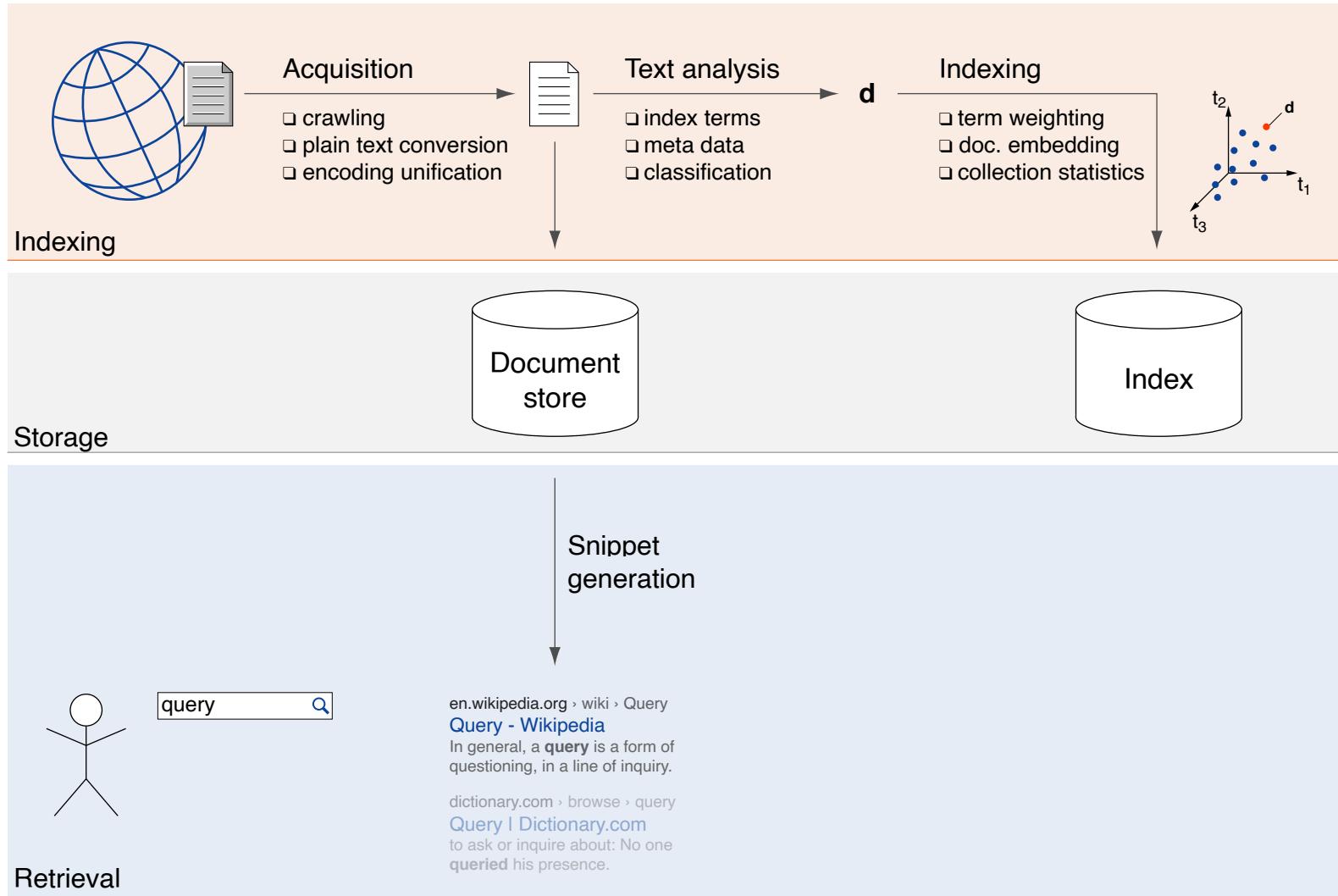
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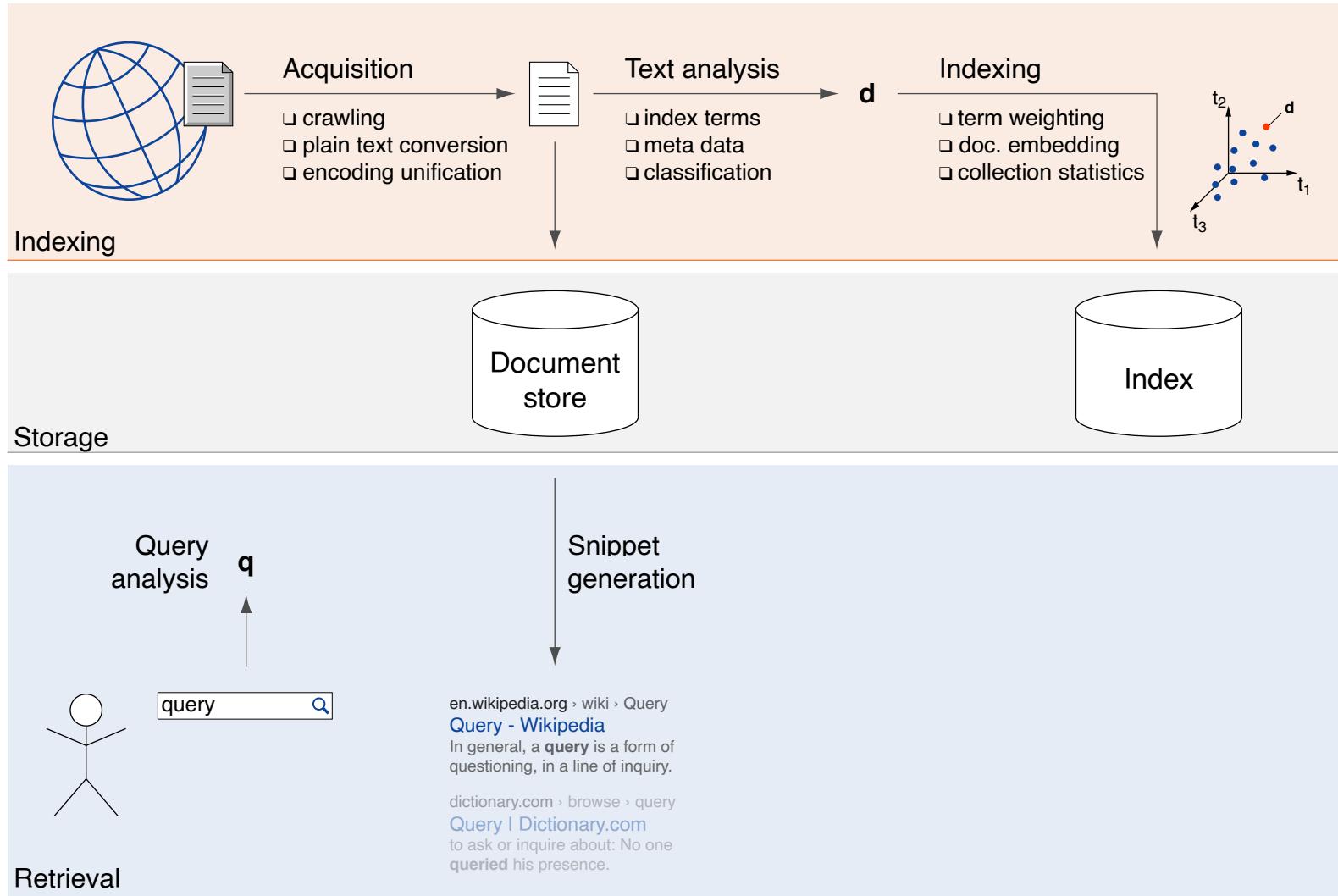
Architecture of a Search Engine

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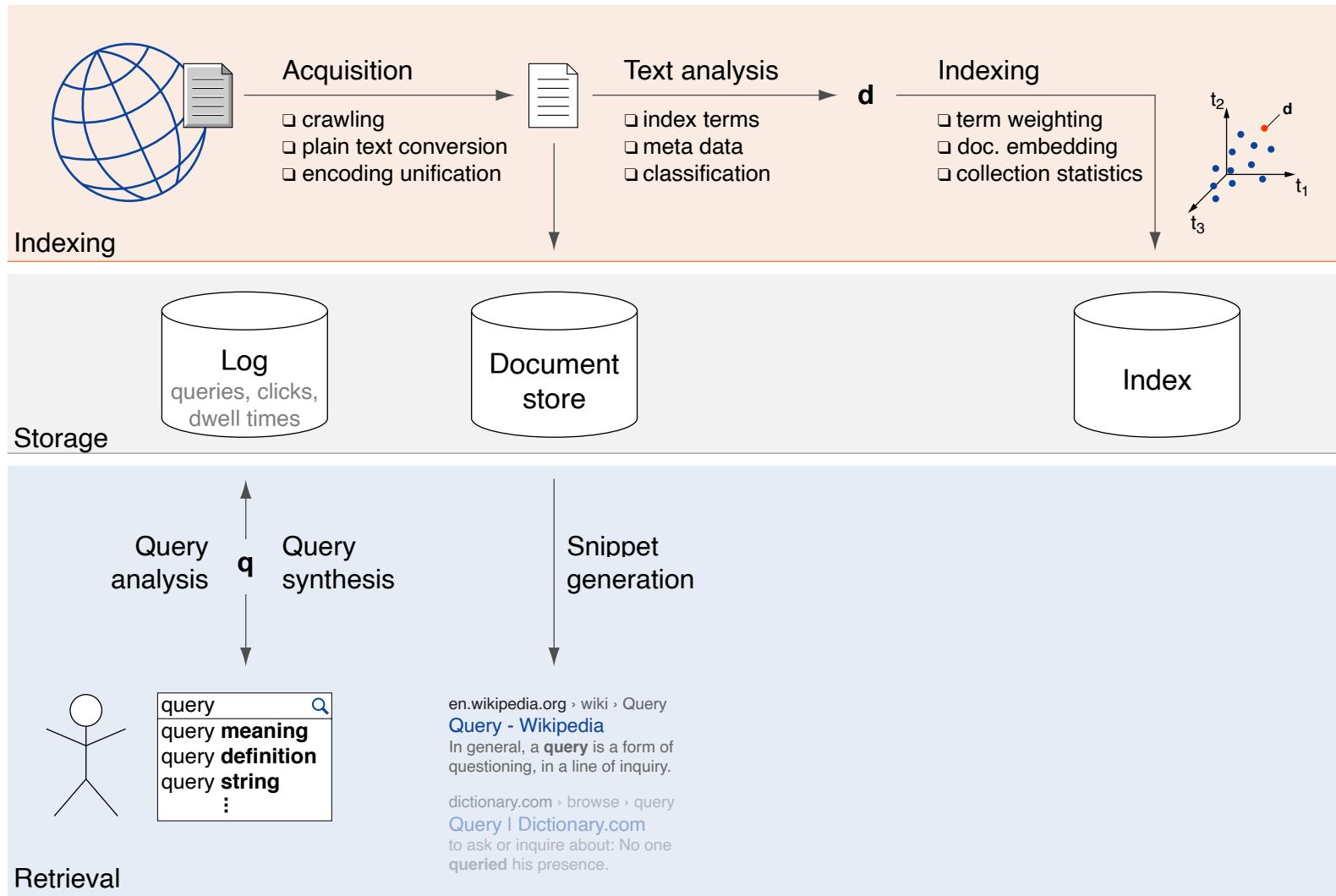
Architecture of a Search Engine

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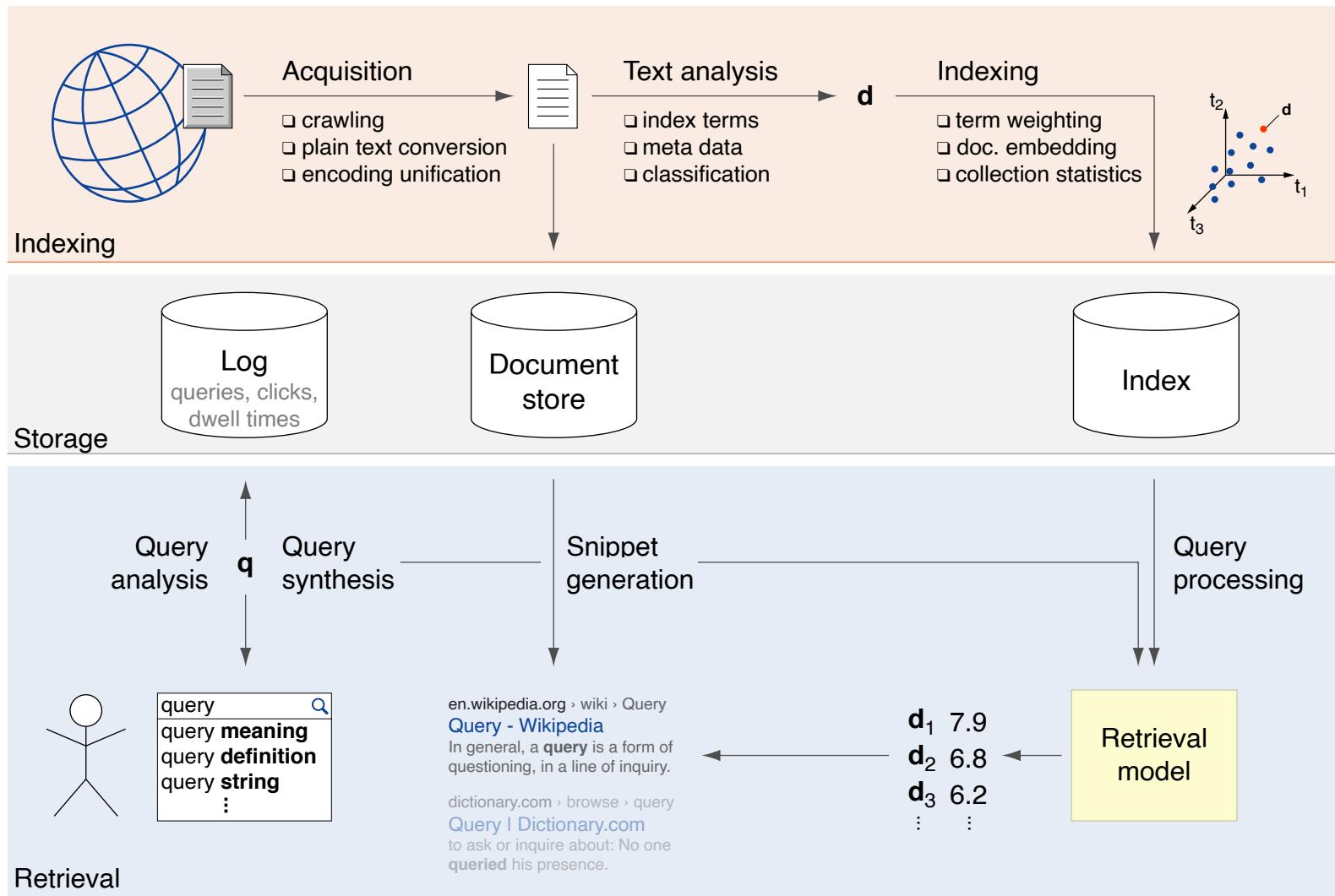
Architecture of a Search Engine

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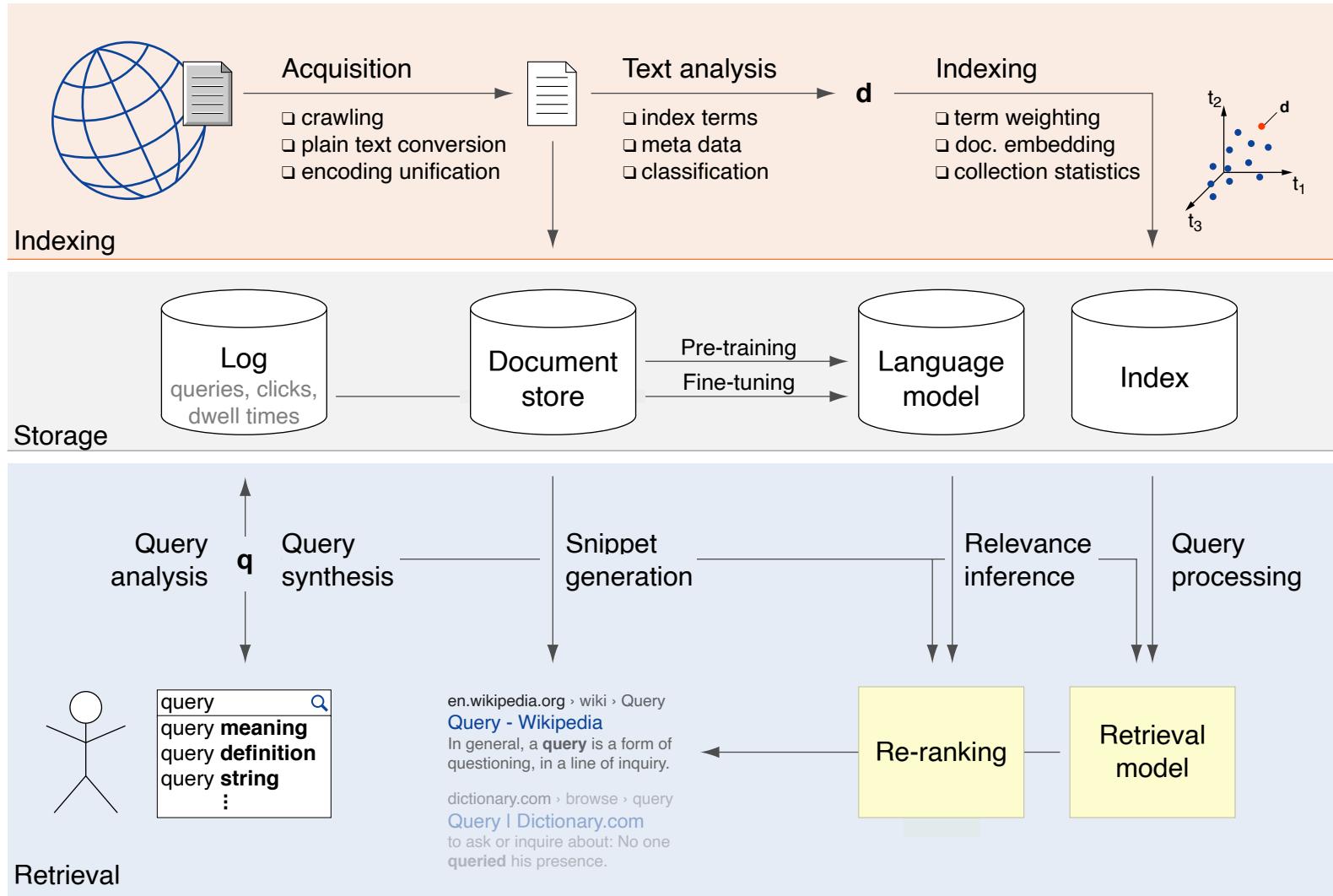
Architecture of a Search Engine

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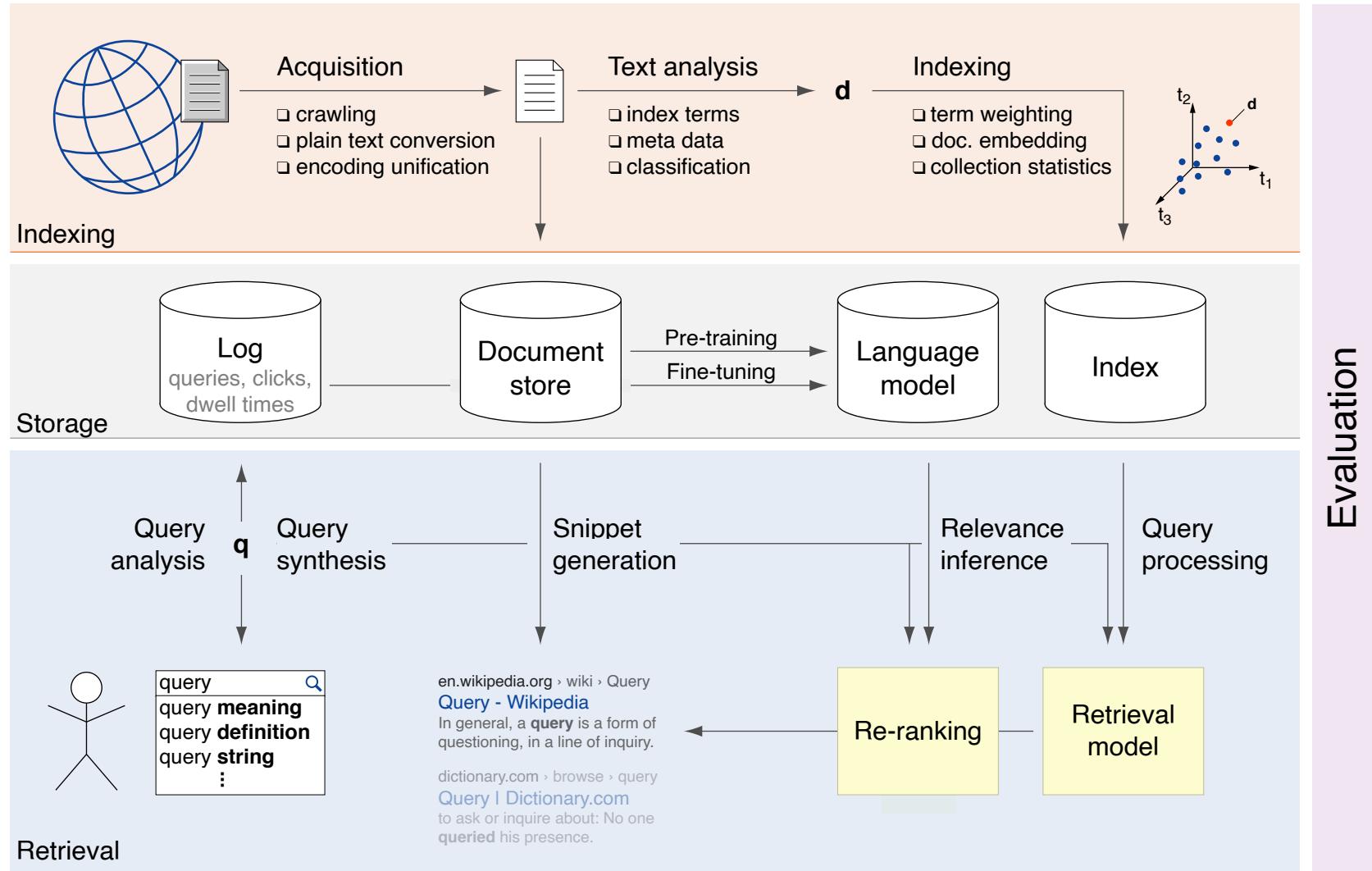
Architecture of a Search Engine

Karaoke Version



Architecture of a Search Engine

Karaoke Version



Pooling

Exercise

Given the following three rankings:

System	Document at rank									
	1	2	3	4	5	6	7	8	9	10
A	d_1	d_2	d_3	d_4	d_5	d_6	d_7	d_8	d_9	d_{10}
B	d_{12}	d_4	d_6	d_8	d_{10}	d_{11}	d_3	d_5	d_7	d_9
C	d_{10}	d_8	d_9	d_{17}	d_{16}	d_{14}	d_{15}	d_{13}	d_{12}	d_{11}

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Which documents will end up in a top-5 pooling?

Pooling

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C	d_{10}	d_8	d_9	d_{17}	d_{16}	d_{14}	d_{15}	d_{13}	d_{12}	d_{11}

Which documents will end up in a top-5 pooling?

Which documents will end up in a top-7 pooling?

Next Steps

Assignment

- Exercise sheet on temir.org
- Create a GitHub account for the next stage (i.e., building an IR system)
- Check TIRA login (handed out this week, report if it does not work)

Any questions?