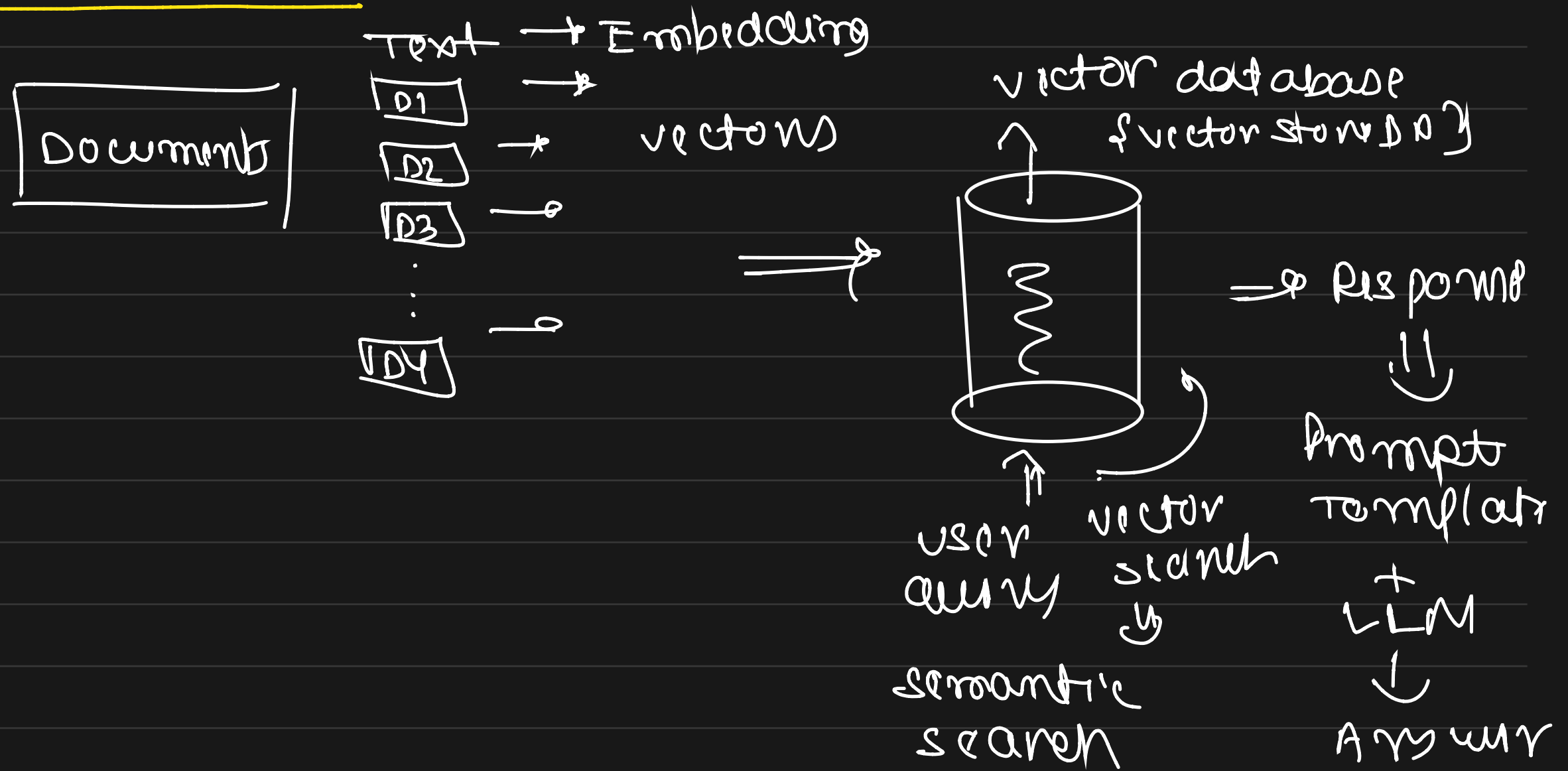


# NOTEBOOK

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## Hybrid Search RAG

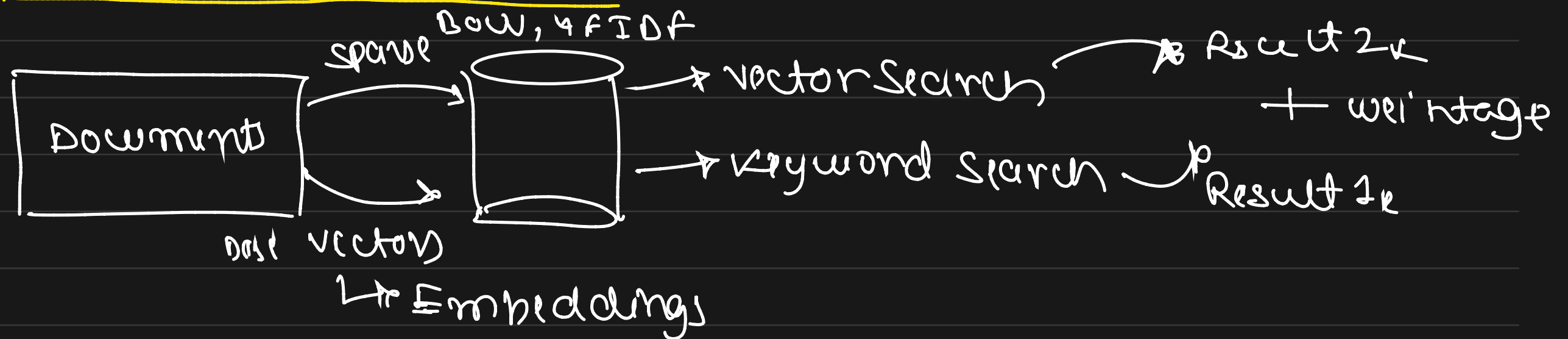


Hybrid Search → combining multiple search techniques

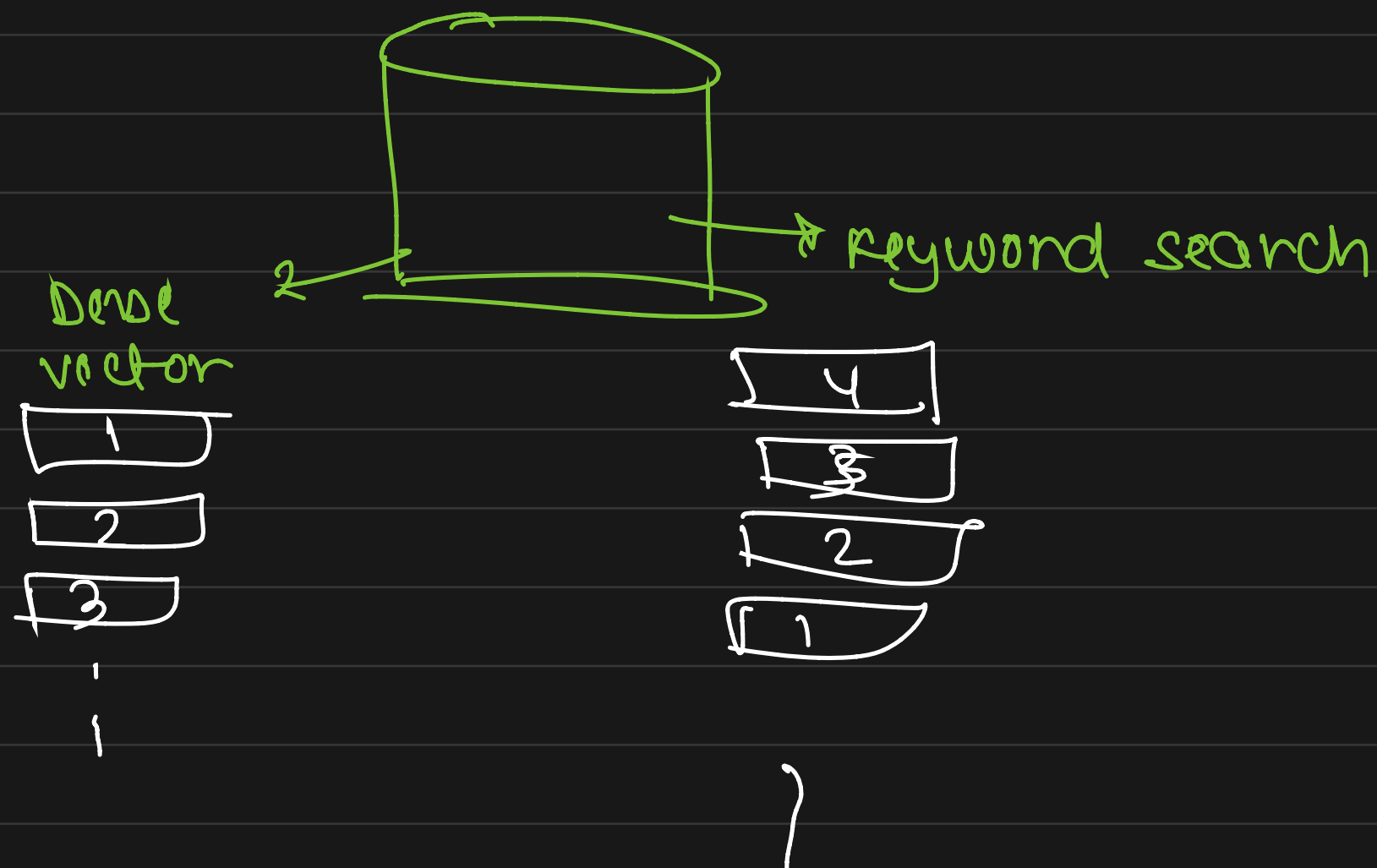
- ① semantic search → dense vector search
- ② syntactic search → Exact search → Keyword search

Text → sparse Matrix (0's and 1's)

## How Hybrid Search works?



## Reciprocal Rank Fusion in Hybrid Search



$$\text{Final score} = \sum \frac{1}{(C+R_d)} \quad C = \text{Depends on various data sources (1-60)}$$
$$= \sum 1/R_d$$

Graph knowledge Search C