

# Information Management

Summer Term 2025, Dr. Thomas Arnold



TECHNISCHE  
UNIVERSITÄT  
DARMSTADT

## Exercise 11 – Information Retrieval

The goal of this exercise is to be able to explain the most important concepts of information retrieval.<sup>1</sup>

### Essential

**Task 11.1: Inverted Index – Movie Reviews.** You are working with a collection of short movie reviews. Fill in the following inverted index table: calculate the term frequency (tf), document frequency (df). Ignore punctuation and treat the following as stop words: a, not, the, but, was, would, you.

Doc1	"A mind blowing movie, truly unexpected ending."
Doc2	"Not the best film, but the music was great."
Doc3	"Great acting, weak plot. Would not watch again."
Doc4	"Unexpected twist! This movie keeps you guessing."

dictionary	tf(t)	df(t)	postings
...	...	...	...

Proposed Solution:

Dictionary and Inverted Index:

dictionary	tf(t)	df(t)	postings
acting	1	1	Doc3
again	1	1	Doc3
best	1	1	Doc2
blowing	1	1	Doc1
ending	1	1	Doc1
film	1	1	Doc2
great	2	2	Doc2, Doc3
guessing	1	1	Doc4
keeps	1	1	Doc4
mind	1	1	Doc1
movie	2	2	Doc1, Doc4
music	1	1	Doc2
plot	1	1	Doc3
truly	1	1	Doc1
twist	1	1	Doc4
unexpected	2	2	Doc1, Doc4
watch	1	1	Doc3
weak	1	1	Doc3

<sup>1</sup> Acknowledgements: Some of these exercises are based on an information retrieval course by Hinrich Schütze, Heike Adel, and Sascha Rothe at the Ludwig-Maximilians-Universität München.

# Introduction To Information Retrieval Exercise Solutions

**SA Adler**



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