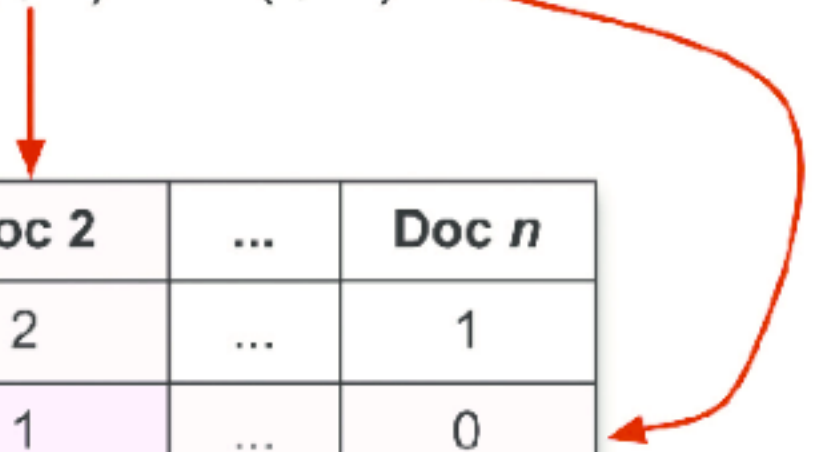


- We often want to count terms in the **documents** which they are contained.
- However, just counting how many times a word appears in a corpus often **does not always** capture whether this term is important.
- So, how do we resolve this?

$$\text{tfidf}(t, d, D) = \text{tf}(t, d) \times \text{idf}(t, D)$$



	Doc 1	Doc 2	...	Doc $n$
Term(s) 1	12	2	...	1
Term(s) 2	0	1	...	0
...	...	...	...	...
Term(s) $n$	0	6	...	3

- A **TF-IDF** measure (**term-frequency inverse [TF] document frequency [IDF]**) is a commonly used counting technique intended to reflect how relevant a term is in a given document.
- In other words, it is a **document specific measure** that tells you how important an **n-gram** is in a document **relative** to a **corpus**.

