

Types	Illustration	Use Case	Note												
Skiplist		In-memory	used in Redis												
Hash index		In-memory	Most common in-memory index solution												
SSTable	<table border="1" data-bbox="363 478 647 621"> <thead> <tr> <th>Key</th> <th>Offset</th> <th>Length</th> </tr> </thead> <tbody> <tr> <td>aaa</td> <td>0</td> <td>4</td> </tr> <tr> <td>aab</td> <td>4</td> <td>7</td> </tr> <tr> <td>zzz</td> <td>3132</td> <td>233</td> </tr> </tbody> </table>	Key	Offset	Length	aaa	0	4	aab	4	7	zzz	3132	233	Disk-based	Immutable data structure. Seldom used alone
Key	Offset	Length													
aaa	0	4													
aab	4	7													
zzz	3132	233													
LSM tree		Memory + Disk	High write throughput. Disk compaction may impact performance												
B-tree		Disk-based	Most popular database index implementation												
Inverted index		Search document	Used in document search engine such as Lucene												
Suffix tree		Search string	Used in string search, such as string suffix match												
R-tree		Search multi-dimension shape	Such as the nearest neighbor												

From Data Structures To Patterns

Lei Huang



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