A **hash table** is a data structure used to insert, look up, and remove key-value pairs quickly. [It operates on the concept of hashing, where each key is translated by a hash function into a distinct index in an array, serving as a storage location for the corresponding value](https://sandilands.info/crypto/HashFunctionsandMACs.html)[1](https://bing.com/th?id=OIP.xiMGNSaRXzpwY2II5VzE8wHaFK).

Here are **five free reference links** where you can learn more about hash tables:

1. [**GeeksforGeeks**: Provides detailed explanations, examples, and implementation in various programming languages](https://sandilands.info/crypto/HashFunctionsandMACs.html)[2](https://www.geeksforgeeks.org/hash-table-data-structure/)
2. [**Programiz**: Offers tutorials on hash tables, including key-value pairs, hash functions, and collision resolution techniques](https://sandilands.info/crypto/HashFunctionsandMACs.html)[3](https://www.programiz.com/dsa/hash-table)
3. [**Wikipedia**: A concise overview of hash tables, also known as hash maps or hash sets, and their use in implementing associative arrays](https://sandilands.info/crypto/HashFunctionsandMACs.html)[4](https://en.wikipedia.org/wiki/Hash_table)
4. [**edX**: Offers courses on implementing hash tables and similar data structures, covering hash functions, collision resolution, and troubleshooting](https://sandilands.info/crypto/HashFunctionsandMACs.html)[5](https://www.edx.org/learn/hash-table)
5. [**TutorialsPoint**: Covers hash table representation, collision resolution methods (chaining, open addressing), and good hash function criteria](https://sandilands.info/crypto/HashFunctionsandMACs.html)[6](https://www.tutorialspoint.com/data_structures_algorithms/hash_data_structure.htm)

Feel free to explore these resources to deepen your understanding of hash tables! 📚🔍