Totally not hastily put together lesson on hash tables

-Huge amounts of data

-key and value ( in a dictionary, key is word, value is definition )

-Hash function

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Index | 0 | 1 | 2 | … |  |  |  |  | 25 |
|  | A | B | C | … |  |  |  |  | Z |

An array of linked lists

-Bucket – each bucket is an index, which is a linked list. In this example, index 0 = linked list of words starting with “A”

-Collision

- Key goes to hash function, which then converts to index which corresponds to a bucket.