hash[ ], □ [ ], □ @

A **hash code** is a fixed-size numerical value generated from input data of arbitrary size, used primarily for indexing data in hash tables. It allows for efficient data retrieval and storage by mapping variable-length data to a fixed-length representation.

Think of the hash code as a unique digital signature for any data that once even if one bit of that data altered the entire new hash code would be different.

Example: "dara is good lookin" has the hash code:

"0x05ee501e3232083ca0f16b02011944e735f78db170c568c2ea85e56380ddca05"

Counterexample: "dara is good lookin**.**" the ending red dot cause an entire change to the has code above:

"0x4700eceb9e5cbc887ad3dea1833081d51c3572c7886ea9c8a3f30b0c5ad4c614"

```
hash1 = □["dara is good lookin"];
hash2 = □@"dara is good lookin";
hash3 = hash["dara is good looking"];

show hash1 also hash2 also hash3;

save as myhash;
```

Output

hash1⟶("0x05ee501e3232083ca0f16b02011944e735f78db170c568c2ea85e56380ddca05")

hash2⟶("0x05ee501e3232083ca0f16b02011944e735f78db170c568c2ea85e56380ddca05")

hash3⟶("0x4700eceb9e5cbc887ad3dea1833081d51c3572c7886ea9c8a3f30b0c5ad4c614")

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