

# Hash

This function returns a hash of the specified string in the specified algorithm.

## Syntax

```
string hash ( string algorithm, string dataToHash, [ table options ] )
```

### Required Arguments

- **algorithm:** A string which must be one of these: "md5", "sha1", "sha224", "sha256", "sha384", "sha512", "hmac"
- **dataToHash:** A string of the data to hash.
- **options:** A table with options and other necessary data for the algorithm, as detailed below.

### Options for each algorithm

- *hmac* (HMAC)
  - **key:** a key to encode the input with.
  - **algorithm:** a string which must be one of these: "md5", "sha1", "sha224", "sha256", "sha384", "sha512".

### Returns

Returns the hash of the data, false if an invalid argument was used.