

DecodeString

This function decodes an encoded string using the specified algorithm. The counterpart of this function is encodeString.

Syntax

```
string decodeString ( string algorithm, string input, [table options, function callback] )
```

Required Arguments

- **algorithm:** The algorithm to use.
- **input:** The input to decode.
- **options:** A table with options and other necessary data for the algorithm, as detailed below.

Options for each algorithm

- *tea* (Tiny Encryption Algorithm)
 - **key:** a key to decode the input with.
- *aes128* (Advanced Encryption Standard in CTR mode)
 - **key:** a key to decode the input with.
 - **iv:** the initialization vector that was generated by encodeString for this combination of data and encryption algorithm.
- *rsa* (Rivest-Shamir-Adleman in OAEP with SHA-1 mode)
 - **key:** a private key to decode the input.

BETA: NEW FEATURE (BUILD: 1.6.1 r22408)

- *base64* (Base64 Encoding Algorithm)
 - **variant:** a string that defines the encoding variant. (Currently only "URL" is available)

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- *base32* (Base32 Encoding Algorithm)
 - **variant:** a string that defines the encoding variant. (Currently only "Hex" is available)

Optional Arguments

- **callback:** providing a callback will run this function asynchronously, the arguments to the callback are the same as the returned values below.

Returns

Returns the decoded string if successful, *false* otherwise. If a callback was provided, the decoded string is argument to the callback.