EncodeString

This function encodes a string using the specified algorithm. The counterpart of this function is decodeString.

Tip: If it doesn't matter which algorithm you use for the encoding, keep in mind that aes128 uses hardware acceleration so it may outperform the tea algorithm on most processors.

Syntax

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

Required Arguments

- **algorithm:** The algorithm to use.
- input: The input to encode.
- 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 encode the input with.
- aes128 (Advanced Encryption Standard in CTR mode)
 - \circ key: a key to encode the input with (must be 16 characters long).
- rsa (Rivest-Shamir-Adleman in OAEP with SHA-1 mode)
 - key: a public key to encode the input. (use generateKeyPair to create a new private and public key)

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)
 - o 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 for each algorithm

- tea
 - **encodedString**: the encoded string if successful, *false* otherwise. If a callback was provided, *true* is returned immediately, and the encoded string is passed as an argument to the callback.
- aes128
 - **encodedString**: the encoded string if successful, *false* otherwise. If a callback was provided, *true* is returned immediately, and the encoded string is passed as an argument to the callback.
 - **iv** (Initialization vector): this is a string generated by the encryption algorithm that is needed to decrypt the message by decodeString. If a callback was provided, *true* is returned immediately, and the *iv* is passed as an argument to the callback.
- rsa
 - **encodedString**: the encoded string if successful, *false* otherwise. If a callback was provided, *true* is returned immediately, and the encoded string is passed as an argument to the callback.
- base64
 - **encodedString**: the encoded string if successful, *false* otherwise. If a callback was provided, *true* is returned immediately, and the encoded string is passed as an argument to the callback.



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