

Stegosaurus

1.0

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Class Index

3.1 Class List

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Chapter 4

Namespace Documentation

4.1 Stegosaurus Namespace Reference

Namespaces

Classes

- class [InputFile](#)
- class **Program**
- class [StegoMessage](#)

4.2 Stegosaurus.Algorithm Namespace Reference

Namespaces

Classes

- class [CommonSampleAlgorithm](#)
- class [GraphTheoreticAlgorithm](#)
- class [LSBAlgorithm](#)
- class [StegoAlgorithmBase](#)

4.3 Stegosaurus.Algorithm.CommonSample Namespace Reference

Classes

- class [Sample](#)

4.4 Stegosaurus.Algorithm.GraphTheory Namespace Reference

Classes

- class [CountedVertexList](#)
- class [Edge](#)
- class [Sample](#)
- class [Vertex](#)

4.5 Stegosaurus.Carrier Namespace Reference

Namespaces

Classes

- class [AudioCarrier](#)
- interface [ICarrierMedia](#)
- class [ImageCarrier](#)

4.6 Stegosaurus.Carrier.AudioFormats Namespace Reference

Classes

- class [AudioFile](#)
- class [WaveFile](#)

4.7 Stegosaurus.Cryptography Namespace Reference

Classes

- class [AESProvider](#)
- interface [ICryptoProvider](#)
- class [RSAKeyPair](#)
- class [RSAProvider](#)
- class [TripleDESProvider](#)

4.8 Stegosaurus.Exceptions Namespace Reference

Classes

- class [InvalidCarrierFileException](#)
- class [InvalidImageFileException](#)
- class [InvalidWaveFileException](#)
- class [RandomNumbersOutOfRangeException](#)
- class [StegoAlgorithmException](#)
- class [StegoCryptoException](#)
- class [StegoMessageException](#)
- class [StegosaurusException](#)

4.9 Stegosaurus.Extensions Namespace Reference

Namespaces

Classes

- class **FileSizeExtensions**

4.10 Stegosaurus.Extensions.InputExtensions Namespace Reference

Classes

- class [CarrierType](#)
- class [ContentType](#)
- interface [IInputType](#)

4.11 Stegosaurus.Forms Namespace Reference

Classes

- class [FormEmbeddingProgress](#)
- class [FormMain](#)

4.12 Stegosaurus.Properties Namespace Reference

Classes

- class **Resources**
A strongly-typed resource class, for looking up localized strings, etc.
- class **Settings**

4.13 Stegosaurus.Utility Namespace Reference

Namespaces

Classes

- class **Compression**
- class **IconExtractor**
- class **KeyDeriver**
- class [RandomNumberList](#)
- class **SizeFormatter**

4.14 Stegosaurus.Utility.Extensions Namespace Reference

Classes

- class **ByteArrayExtensions**
- class **StreamExtensions**

4.15 Stegosaurus.Utility.InputTypes Namespace Reference

Classes

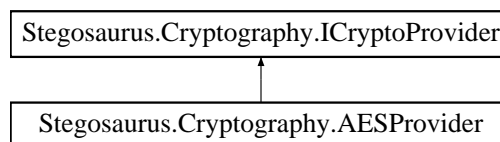
- class [CarrierType](#)
- class [ContentType](#)
- interface [IInputType](#)

Chapter 5

Class Documentation

5.1 Stegosaurus.Cryptography.AESProvider Class Reference

Inheritance diagram for Stegosaurus.Cryptography.AESProvider:



Public Member Functions

- `byte[] Encrypt (byte[] _data)`
Encrypts and returns encrypted data.
- `byte[] Decrypt (byte[] _data)`
Decrypts and returns decrypted data.
- `byte[] GenerateKey ()`
Generates and returns a key which can be used with the algorithm.
- `void SetKey (string _keyString)`
Set the Key from a string.

Public Attributes

- `string Name => "AES"`
- `int Seed => Key == null ? 0 : Key.ComputeHash()`
- `int KeySize => 256`

Properties

- `byte[] Key [get, set]`

5.1.1 Member Function Documentation

5.1.1.1 `byte [] Stegosaurus.Cryptography.AESProvider.Decrypt (byte[] _data)`

Decrypts and returns decrypted data.

Implements [Stegosaurus.Cryptography.ICryptoProvider](#).

5.1.1.2 `byte [] Stegosaurus.Cryptography.AESProvider.Encrypt (byte[] _data)`

Encrypts and returns encrypted data.

Implements [Stegosaurus.Cryptography.ICryptoProvider](#).

5.1.1.3 `byte [] Stegosaurus.Cryptography.AESProvider.GenerateKey ()`

Generates and returns a key which can be used with the algorithm.

Implements [Stegosaurus.Cryptography.ICryptoProvider](#).

5.1.1.4 `void Stegosaurus.Cryptography.AESProvider.SetKey (string _keyString)`

Set the Key from a string.

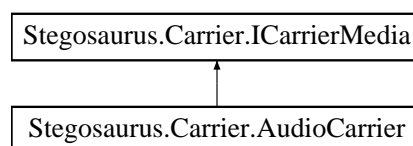
Implements [Stegosaurus.Cryptography.ICryptoProvider](#).

The documentation for this class was generated from the following file:

- `Steganography/Stegosaurus/Cryptography/AESProvider.cs`

5.2 Stegosaurus.Carrier.AudioCarrier Class Reference

Inheritance diagram for `Stegosaurus.Carrier.AudioCarrier`:



Public Member Functions

- [AudioCarrier](#) (string _filePath)
Construct an [AudioCarrier](#) from a file path.
- void [Decode](#) ()
Decodes the carrier media and sets ByteArray to the inner data.
- void [Encode](#) ()
Encodes ByteArray back into the carrier media.
- void [SaveToFile](#) (string _destination)
Saves the carrier media to the specified destination.

Public Attributes

- int **BytesPerSample** => audioFile.BitsPerSample / 8

Properties

- byte[] **ByteArray** [get, set]

5.2.1 Constructor & Destructor Documentation

5.2.1.1 Stegosaurus.Carrier.AudioCarrier.AudioCarrier (string _filePath)

Construct an [AudioCarrier](#) from a file path.

5.2.2 Member Function Documentation

5.2.2.1 void Stegosaurus.Carrier.AudioCarrier.Decode ()

Decodes the carrier media and sets ByteArray to the inner data.

Implements [Stegosaurus.Carrier.ICarrierMedia](#).

5.2.2.2 void Stegosaurus.Carrier.AudioCarrier.Encode ()

Encodes ByteArray back into the carrier media.

Implements [Stegosaurus.Carrier.ICarrierMedia](#).

5.2.2.3 void Stegosaurus.Carrier.AudioCarrier.SaveToFile (string _destination)

Saves the carrier media to the specified destination.

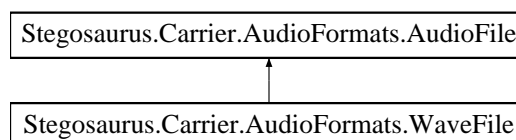
Implements [Stegosaurus.Carrier.ICarrierMedia](#).

The documentation for this class was generated from the following file:

- Steganography/Stegosaurus/Carrier/AudioCarrier.cs

5.3 Stegosaurus.Carrier.AudioFormats.AudioFile Class Reference

Inheritance diagram for Stegosaurus.Carrier.AudioFormats.AudioFile:



Public Member Functions

- abstract void [Parse](#) (string _filePath)
Parses an audio file by reading its headers and samples.
- abstract byte[] [ToArray](#) ()
Reconstructs and returns the entire byte array of the file, including headers.
- virtual void [SetInnerData](#) (byte[] _innerData)
Sets the innerData of the audio file, which contains the original samples.
- virtual byte[] [CopyInnerData](#) ()
Returns a clone of the innerData array which can be manipulated by an algorithm.

Protected Member Functions

- [AudioFile](#) (string _filePath)
Construct an [AudioFile](#) from a file path.

Protected Attributes

- byte[] **innerData**

Properties

- short [NumberOfChannels](#) [get, protected set]
Get or set the number of channels.
- int [SampleRate](#) [get, protected set]
Get or set the sample rate.
- int [ByteRate](#) [get, protected set]
Get or set the byte rate.
- short [BlockAlign](#) [get, protected set]
Get or set the block align.
- short [BitsPerSample](#) [get, protected set]
Get or set the bits per sample.

5.3.1 Constructor & Destructor Documentation

5.3.1.1 Stegosaurus.Carrier.AudioFormats.AudioFile.AudioFile (string _filePath) [protected]

Construct an [AudioFile](#) from a file path.

5.3.2 Member Function Documentation

5.3.2.1 virtual byte[] Stegosaurus.Carrier.AudioFormats.AudioFile.CopyInnerData () [virtual]

Returns a clone of the innerData array which can be manipulated by an algorithm.

5.3.2.2 `abstract void Stegosaurus.Carrier.AudioFormats.AudioFile.Parse (string _filePath) [pure virtual]`

Parses an audio file by reading its headers and samples.

Implemented in [Stegosaurus.Carrier.AudioFormats.WaveFile](#).

5.3.2.3 `virtual void Stegosaurus.Carrier.AudioFormats.AudioFile.SetInnerData (byte[] _innerData) [virtual]`

Sets the innerData of the audio file, which contains the original samples.

5.3.2.4 `abstract byte [] Stegosaurus.Carrier.AudioFormats.AudioFile.ToArray () [pure virtual]`

Reconstructs and returns the entire byte array of the file, including headers.

Implemented in [Stegosaurus.Carrier.AudioFormats.WaveFile](#).

5.3.3 Property Documentation

5.3.3.1 `short Stegosaurus.Carrier.AudioFormats.AudioFile.BitsPerSample [get],[protected set]`

Get or set the bits per sample.

5.3.3.2 `short Stegosaurus.Carrier.AudioFormats.AudioFile.BlockAlign [get],[protected set]`

Get or set the block align.

5.3.3.3 `int Stegosaurus.Carrier.AudioFormats.AudioFile.ByteRate [get],[protected set]`

Get or set the byte rate.

5.3.3.4 `short Stegosaurus.Carrier.AudioFormats.AudioFile.NumberOfChannels [get],[protected set]`

Get or set the number of channels.

5.3.3.5 `int Stegosaurus.Carrier.AudioFormats.AudioFile.SampleRate [get],[protected set]`

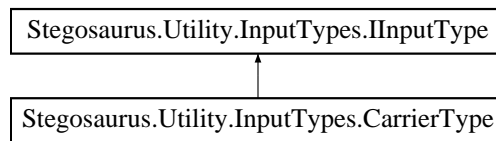
Get or set the sample rate.

The documentation for this class was generated from the following file:

- `Steganography/Stegosaurus/Carrier/AudioFormats/AudioFile.cs`

5.4 Stegosaurus.Utility.InputTypes.CarrierType Class Reference

Inheritance diagram for Stegosaurus.Utility.InputTypes.CarrierType:



Public Member Functions

- **CarrierType** (string _filePath)

Properties

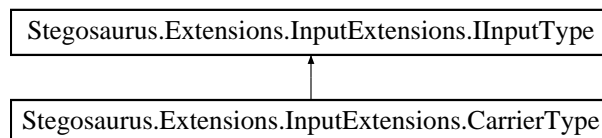
- string **FilePath** [get, set]

The documentation for this class was generated from the following file:

- Steganography/Stegosaurus/Utility/InputTypes/CarrierType.cs

5.5 Stegosaurus.Extensions.InputExtensions.CarrierType Class Reference

Inheritance diagram for Stegosaurus.Extensions.InputExtensions.CarrierType:



Public Member Functions

- **CarrierType** (string _filePath)

Properties

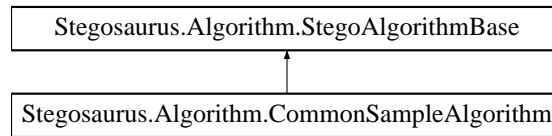
- string **FilePath** [get, set]

The documentation for this class was generated from the following file:

- Steganography/Stegosaurus/Extensions/InputExtensions/CarrierType.cs

5.6 Stegosaurus.Algorithm.CommonSampleAlgorithm Class Reference

Inheritance diagram for Stegosaurus.Algorithm.CommonSampleAlgorithm:



Public Member Functions

- override void [Embed](#) ([StegoMessage](#) message, IProgress< int > _progress, CancellationToken _ct)
Embeds a [StegoMessage](#) in the public ByteArray of the CarrierMedia.
- override [StegoMessage Extract](#) ()
Returns a [StegoMessage](#) by extracting from the public ByteArray of the CarrierMedia.
- override long [ComputeBandwidth](#) ()
Returns the data capacity of the carrier media with the given algorithm.

Public Attributes

- override string **Name** => "Common [Sample](#)"

Protected Attributes

- override byte[] **Signature** => new byte[] { 0x0C, 0xB3, 0x11, 0x84 }

Properties

- int [MaxDistance](#) [get, set]
Get or set the maximum distance.
- int [MaxSampleCount](#) = 250 [get, set]
Get or set the maximum sample count.

5.6.1 Member Function Documentation

5.6.1.1 override long Stegosaurus.Algorithm.CommonSampleAlgorithm.ComputeBandwidth () [virtual]

Returns the data capacity of the carrier media with the given algorithm.

Implements [Stegosaurus.Algorithm.StegoAlgorithmBase](#).

5.6.1.2 override void Stegosaurus.Algorithm.CommonSampleAlgorithm.Embed ([StegoMessage](#) _message, IProgress< int > _progress, CancellationToken _ct) [virtual]

Embeds a [StegoMessage](#) in the public ByteArray of the CarrierMedia.

Implements [Stegosaurus.Algorithm.StegoAlgorithmBase](#).

5.6.1.3 override **StegoMessage** **Stegosaurus.Algorithm.CommonSampleAlgorithm.Extract** () [virtual]

Returns a [StegoMessage](#) by extracting from the public ByteArray of the CarrierMedia.

Implements [Stegosaurus.Algorithm.StegoAlgorithmBase](#).

5.6.2 Property Documentation

5.6.2.1 int **Stegosaurus.Algorithm.CommonSampleAlgorithm.MaxDistance** [get], [set]

Get or set the maximum distance.

5.6.2.2 int **Stegosaurus.Algorithm.CommonSampleAlgorithm.MaxSampleCount** = 250 [get], [set]

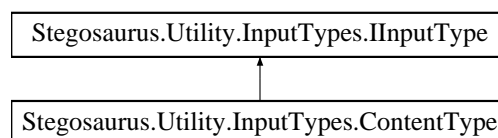
Get or set the maximum sample count.

The documentation for this class was generated from the following file:

- Steganography/Stegosaurus/Algorithm/CommonSampleAlgorithm.cs

5.7 Stegosaurus.Utility.InputTypes.ContentType Class Reference

Inheritance diagram for Stegosaurus.Utility.InputTypes.ContentType:



Public Member Functions

- **ContentType** (string _filePath)

Properties

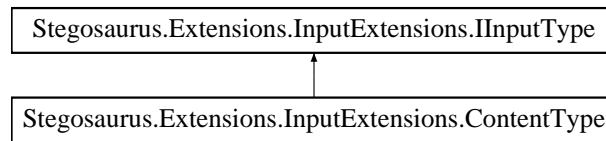
- string **FilePath** [get, set]

The documentation for this class was generated from the following file:

- Steganography/Stegosaurus/Utility/InputTypes/ContentType.cs

5.8 Stegosaurus.Extensions.InputExtensions.ContentType Class Reference

Inheritance diagram for Stegosaurus.Extensions.InputExtensions.ContentType:



Public Member Functions

- **ContentType** (string _filePath)

Properties

- string **FilePath** [get, set]

The documentation for this class was generated from the following file:

- Steganography/Stegosaurus/Extensions/InputExtensions/ContentType.cs

5.9 Stegosaurus.Algorithm.GraphTheory.CountedVerticeList Class Reference

Public Member Functions

- void **Add** (Vertex _newVertex)
- Vertex **Get** (int _index)

Public Attributes

- int **Count** = 0
- List< Vertex > **vertices** = new List<Vertex>()

The documentation for this class was generated from the following file:

- Steganography/Stegosaurus/Algorithm/GraphTheory/CountedVerticeList.cs

5.10 Stegosaurus.Algorithm.GraphTheory.Edge Class Reference

Public Member Functions

- **Edge** (Vertex _firstVertex, Vertex _secondVertex, short _weight, byte[] _bestSwaps)
- override string **ToString** ()

Public Attributes

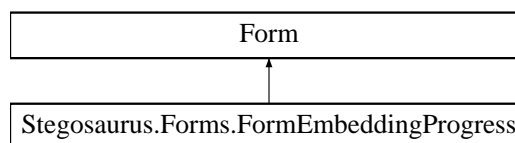
- [Vertex](#)[] **Vertices** = new [Vertex](#)[2]
- short **Weight**
- byte[] **BestSwaps**

The documentation for this class was generated from the following file:

- Steganography/Stegosaurus/Algorithm/GraphTheory/Edge.cs

5.11 Stegosaurus.Forms.FormEmbeddingProgress Class Reference

Inheritance diagram for Stegosaurus.Forms.FormEmbeddingProgress:



Public Member Functions

- async Task **Run** ([StegoMessage](#) _message, [StegoAlgorithmBase](#) _algorithm, string _name, string _↔ extension)

Protected Member Functions

- override void [Dispose](#) (bool disposing)
Clean up any resources being used.

5.11.1 Member Function Documentation

5.11.1.1 override void Stegosaurus.Forms.FormEmbeddingProgress.Dispose (bool *disposing*) [protected]

Clean up any resources being used.

Parameters

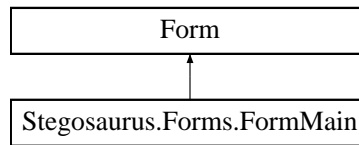
<i>disposing</i>	true if managed resources should be disposed; otherwise, false.
------------------	---

The documentation for this class was generated from the following files:

- Steganography/Stegosaurus/Forms/FormEmbeddingProgress.cs
- Steganography/Stegosaurus/Forms/FormEmbeddingProgress.Designer.cs

5.12 Stegosaurus.Forms.FormMain Class Reference

Inheritance diagram for Stegosaurus.Forms.FormMain:



Protected Member Functions

- override void [Dispose](#) (bool disposing)
Clean up any resources being used.

5.12.1 Member Function Documentation

5.12.1.1 override void Stegosaurus.Forms.FormMain.Dispose (bool *disposing*) [protected]

Clean up any resources being used.

Parameters

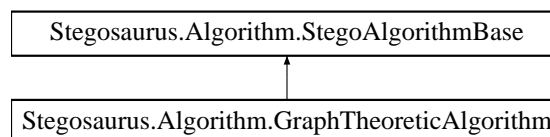
<i>disposing</i>	true if managed resources should be disposed; otherwise, false.
------------------	---

The documentation for this class was generated from the following files:

- Steganography/Stegosaurus/Forms/FormMain.cs
- Steganography/Stegosaurus/Forms/FormMain.Designer.cs

5.13 Stegosaurus.Algorithm.GraphTheoreticAlgorithm Class Reference

Inheritance diagram for Stegosaurus.Algorithm.GraphTheoreticAlgorithm:



Public Member Functions

- override long [ComputeBandwidth](#) ()
Returns the data capacity of the carrier media with the given algorithm.
- override void [Embed](#) ([StegoMessage](#) _message, IProgress< int > _progress, CancellationToken _ct)
Embeds a [StegoMessage](#) in the public ByteArray of the CarrierMedia.
- override [StegoMessage](#) [Extract](#) ()
Returns a [StegoMessage](#) by extracting from the public ByteArray of the CarrierMedia.

Public Attributes

- override string **Name** => "Graph Theoretic Algorithm"

Properties

- byte **SamplesPerVertex** [get, set]
- byte **MessageBitsPerVertex** [get, set]
- ushort **DiscriminationFactor** [get, set]
- override byte[] **Signature** [get]

Additional Inherited Members

5.13.1 Member Function Documentation

5.13.1.1 override long Stegosaurus.Algorithm.GraphTheoreticAlgorithm.ComputeBandwidth () [virtual]

Returns the data capacity of the carrier media with the given algorithm.

Implements [Stegosaurus.Algorithm.StegoAlgorithmBase](#).

5.13.1.2 override void Stegosaurus.Algorithm.GraphTheoreticAlgorithm.Embed (StegoMessage _message, IProgress< int > _progress, CancellationToken _ct) [virtual]

Embeds a [StegoMessage](#) in the public ByteArray of the CarrierMedia.

Implements [Stegosaurus.Algorithm.StegoAlgorithmBase](#).

5.13.1.3 override StegoMessage Stegosaurus.Algorithm.GraphTheoreticAlgorithm.Extract () [virtual]

Returns a [StegoMessage](#) by extracting from the public ByteArray of the CarrierMedia.

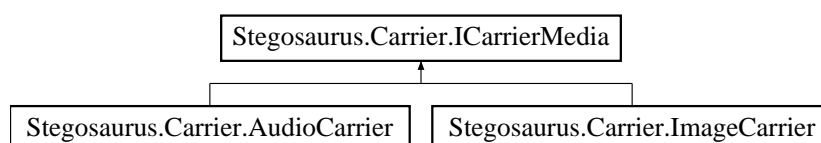
Implements [Stegosaurus.Algorithm.StegoAlgorithmBase](#).

The documentation for this class was generated from the following file:

- Steganography/Stegosaurus/Algorithm/GraphTheoreticAlgorithm.cs

5.14 Stegosaurus.Carrier.ICarrierMedia Interface Reference

Inheritance diagram for Stegosaurus.Carrier.ICarrierMedia:



Public Member Functions

- void [Encode](#) ()
Encodes ByteArray back into the carrier media.
- void [Decode](#) ()
Decodes the carrier media and sets ByteArray to the inner data.
- void [SaveToFile](#) (string _destination)
Saves the carrier media to the specified destination.

Properties

- byte[] [ByteArray](#) [get, set]
The byte array containing samples of the carrier media. This array is to be used by algorithms.
- int [BytesPerSample](#) [get]
The amount of bytes per sample, where a sample is defined as a sequence of bytes. For example, the pixels in an image are samples, where the amount of bytes is the amount of channels.

5.14.1 Member Function Documentation

5.14.1.1 void Stegosaurus.Carrier.ICarrierMedia.Decode ()

Decodes the carrier media and sets ByteArray to the inner data.

Implemented in [Stegosaurus.Carrier.ImageCarrier](#), and [Stegosaurus.Carrier.AudioCarrier](#).

5.14.1.2 void Stegosaurus.Carrier.ICarrierMedia.Encode ()

Encodes ByteArray back into the carrier media.

Implemented in [Stegosaurus.Carrier.ImageCarrier](#), and [Stegosaurus.Carrier.AudioCarrier](#).

5.14.1.3 void Stegosaurus.Carrier.ICarrierMedia.SaveToFile (string _destination)

Saves the carrier media to the specified destination.

Implemented in [Stegosaurus.Carrier.ImageCarrier](#), and [Stegosaurus.Carrier.AudioCarrier](#).

5.14.2 Property Documentation

5.14.2.1 byte [] Stegosaurus.Carrier.ICarrierMedia.ByteArray [get], [set]

The byte array containing samples of the carrier media. This array is to be used by algorithms.

5.14.2.2 int Stegosaurus.Carrier.ICarrierMedia.BytesPerSample [get]

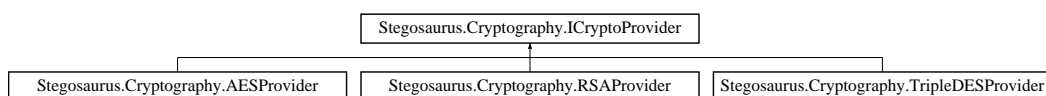
The amount of bytes per sample, where a sample is defined as a sequence of bytes. For example, the pixels in an image are samples, where the amount of bytes is the amount of channels.

The documentation for this interface was generated from the following file:

- Steganography/Stegosaurus/Carrier/ICarrierMedia.cs

5.15 Stegosaurus.Cryptography.ICryptoProvider Interface Reference

Inheritance diagram for Stegosaurus.Cryptography.ICryptoProvider:



Public Member Functions

- void [SetKey](#) (string _keyString)
Set the Key from a string.
- byte[] [GenerateKey](#) ()
Generates and returns a key which can be used with the algorithm.
- byte[] [Encrypt](#) (byte[] _data)
Encrypts and returns encrypted data.
- byte[] [Decrypt](#) (byte[] _data)
Decrypts and returns decrypted data.

Properties

- byte[] [Key](#) [get, set]
The key to be used, either in encryption or decryption.
- string [Name](#) [get]
The name of the algorithm.
- int [KeySize](#) [get]
The maximum key size in bits.
- int [Seed](#) [get]
The seed to be optionally used by algorithms, typically a hash of the encryption key. If an implementation of [ICryptoProvider](#) is assymetric, it should still provide a symmetric seed.

5.15.1 Member Function Documentation

5.15.1.1 byte[] Stegosaurus.Cryptography.ICryptoProvider.Decrypt (byte[] _data)

Decrypts and returns decrypted data.

Implemented in [Stegosaurus.Cryptography.AESProvider](#), [Stegosaurus.Cryptography.RSAProvider](#), and [Stegosaurus.Cryptography.TripleDESProvider](#).

5.15.1.2 `byte [] Stegosaurus.Cryptography.ICryptoProvider.Encrypt (byte[] _data)`

Encrypts and returns encrypted data.

Implemented in [Stegosaurus.Cryptography.RSAProvider](#), [Stegosaurus.Cryptography.TripleDESProvider](#), and [Stegosaurus.Cryptography.AESProvider](#).

5.15.1.3 `byte [] Stegosaurus.Cryptography.ICryptoProvider.GenerateKey ()`

Generates and returns a key which can be used with the algorithm.

Implemented in [Stegosaurus.Cryptography.RSAProvider](#), [Stegosaurus.Cryptography.AESProvider](#), and [Stegosaurus.Cryptography.TripleDESProvider](#).

5.15.1.4 `void Stegosaurus.Cryptography.ICryptoProvider.SetKey (string _keyString)`

Set the Key from a string.

Implemented in [Stegosaurus.Cryptography.RSAProvider](#), [Stegosaurus.Cryptography.AESProvider](#), and [Stegosaurus.Cryptography.TripleDESProvider](#).

5.15.2 Property Documentation

5.15.2.1 `byte [] Stegosaurus.Cryptography.ICryptoProvider.Key` `[get]`, `[set]`

The key to be used, either in encryption or decryption.

5.15.2.2 `int Stegosaurus.Cryptography.ICryptoProvider.KeySize` `[get]`

The maximum key size in bits.

5.15.2.3 `string Stegosaurus.Cryptography.ICryptoProvider.Name` `[get]`

The name of the algorithm.

5.15.2.4 `int Stegosaurus.Cryptography.ICryptoProvider.Seed` `[get]`

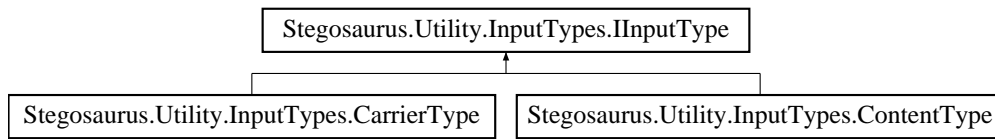
The seed to be optionally used by algorithms, typically a hash of the encryption key. If an implementation of [ICryptoProvider](#) is assymmetric, it should still provide a symmetric seed.

The documentation for this interface was generated from the following file:

- `Steganography/Stegosaurus/Cryptography/ICryptoProvider.cs`

5.16 Stegosaurus.Utility.InputTypes.IInputType Interface Reference

Inheritance diagram for Stegosaurus.Utility.InputTypes.IInputType:



Properties

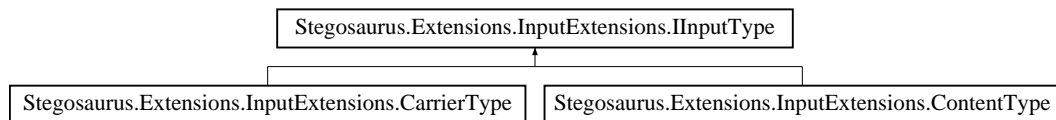
- string **FilePath** [get, set]

The documentation for this interface was generated from the following file:

- Steganography/Stegosaurus/Utility/InputTypes/IInputType.cs

5.17 Stegosaurus.Extensions.InputExtensions.IInputType Interface Reference

Inheritance diagram for Stegosaurus.Extensions.InputExtensions.IInputType:



Properties

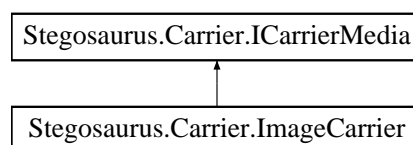
- string **FilePath** [get, set]

The documentation for this interface was generated from the following file:

- Steganography/Stegosaurus/Extensions/InputExtensions/IInputType.cs

5.18 Stegosaurus.Carrier.ImageCarrier Class Reference

Inheritance diagram for Stegosaurus.Carrier.ImageCarrier:



Public Member Functions

- [ImageCarrier](#) ([Image](#) _image)
Construct [ImageCarrier](#) from an instance of Image.
- [ImageCarrier](#) (string _filePath)
Gets file path to image file and passes instace of Image to constructor.
- void [Decode](#) ()
Decodes the carrier media and sets ByteArray to the inner data.
- void [Encode](#) ()
Moves data from ByteArray into innerImage.
- void [SaveToFile](#) (string _destination)
Encodes and saves file to destination.

Public Attributes

- int **BytesPerSample** => 3
- Image [Image](#) => image
Returns the inner instance of Image.

Properties

- byte[] **ByteArray** [get, set]

5.18.1 Constructor & Destructor Documentation

5.18.1.1 Stegosaurus.Carrier.ImageCarrier.ImageCarrier (Image _image)

Construct [ImageCarrier](#) from an instance of Image.

5.18.1.2 Stegosaurus.Carrier.ImageCarrier.ImageCarrier (string _filePath)

Gets file path to image file and passes instace of Image to constructor.

Parameters

_filePath	
---------------------------	--

5.18.2 Member Function Documentation

5.18.2.1 void Stegosaurus.Carrier.ImageCarrier.Decode ()

Decodes the carrier media and sets ByteArray to the inner data.

Implements [Stegosaurus.Carrier.ICarrierMedia](#).

5.18.2.2 void Stegosaurus.Carrier.ImageCarrier.Encode ()

Moves data from ByteArray into innerImage.

Implements [Stegosaurus.Carrier.ICarrierMedia](#).

5.18.2.3 void Stegosaurus.Carrier.ImageCarrier.SaveToFile (string _destination)

Encodes and saves file to destination.

Implements [Stegosaurus.Carrier.ICarrierMedia](#).

5.18.3 Member Data Documentation

5.18.3.1 Image Stegosaurus.Carrier.ImageCarrier.Image => image

Returns the inner instance of Image.

The documentation for this class was generated from the following file:

- Steganography/Stegosaurus/Carrier/ImageCarrier.cs

5.19 Stegosaurus.InputFile Class Reference

Public Member Functions

- [InputFile](#) (string _name, byte[] _content)
A constructor to construct a [InputFile](#) from byte array.
- [InputFile](#) (string _filePath)
A constructor to construct a [InputFile](#) from a file path.
- void [SaveTo](#) (string _destination)
This method is used to save the file in the file system of the operating system.

Properties

- string [Name](#) [get]
The name of the file.
- byte[] [Content](#) [get]
A byte array containing the files contents.

5.19.1 Constructor & Destructor Documentation

5.19.1.1 Stegosaurus.InputFile.InputFile (string _name, byte[] _content)

A constructor to construct a [InputFile](#) from byte array.

5.19.1.2 Stegosaurus.InputFile.InputFile (string *_filePath*)

A constructor to construct a [InputFile](#) from a file path.

5.19.2 Member Function Documentation

5.19.2.1 void Stegosaurus.InputFile.SaveTo (string *_destination*)

This method is used to save the file in the file system of the operating system.

5.19.3 Property Documentation

5.19.3.1 byte [] Stegosaurus.InputFile.Content [get]

A byte array containing the files contents.

5.19.3.2 string Stegosaurus.InputFile.Name [get]

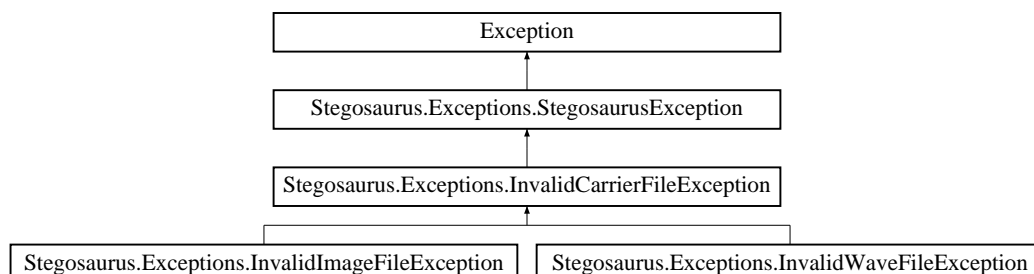
The name of the file.

The documentation for this class was generated from the following file:

- Steganography/Stegosaurus/InputFile.cs

5.20 Stegosaurus.Exceptions.InvalidCarrierFileException Class Reference

Inheritance diagram for Stegosaurus.Exceptions.InvalidCarrierFileException:



Public Member Functions

- **InvalidCarrierFileException** (string *_message*, string *_fileName*)

Properties

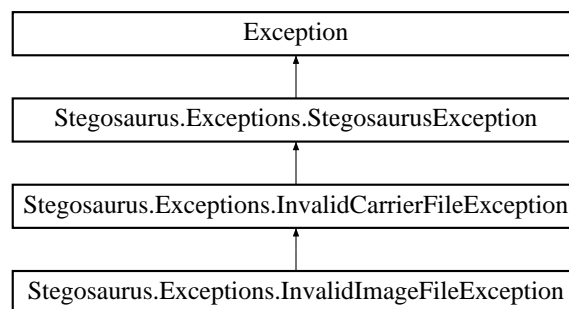
- string **FileName** [get]

The documentation for this class was generated from the following file:

- Steganography/Stegosaurus/Exceptions/InvalidCarrierFileException.cs

5.21 Stegosaurus.Exceptions.InvalidImageFileException Class Reference

Inheritance diagram for Stegosaurus.Exceptions.InvalidImageFileException:



Public Member Functions

- **InvalidImageFileException** (string _message, string _fileName)

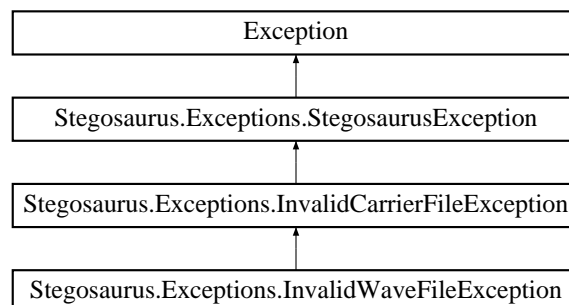
Additional Inherited Members

The documentation for this class was generated from the following file:

- Steganography/Stegosaurus/Exceptions/InvalidImageFileException.cs

5.22 Stegosaurus.Exceptions.InvalidWaveFileException Class Reference

Inheritance diagram for Stegosaurus.Exceptions.InvalidWaveFileException:



Public Member Functions

- **InvalidWaveFileException** (string _message, string _fileName)

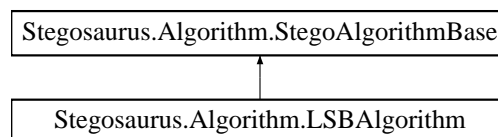
Additional Inherited Members

The documentation for this class was generated from the following file:

- Steganography/Stegosaurus/Exceptions/InvalidWaveFileException.cs

5.23 Stegosaurus.Algorithm.LSBAlgorithm Class Reference

Inheritance diagram for Stegosaurus.Algorithm.LSBAlgorithm:



Public Types

- enum **BitValues** : byte {
First = 0x1, **Second** = 0x2, **Third** = 0x4, **Fourth** = 0x8,
Fifth = 0x10, **Sixth** = 0x20, **Seventh** = 0x40, **Eighth** = 0x80 }

Enum containing the different bit values.

Public Member Functions

- override void **Embed** (StegoMessage _message, IProgress< int > _progress, CancellationToken _ct)
Embeds a [StegoMessage](#) in the public ByteArray of the CarrierMedia.
- override **StegoMessage Extract** ()
Returns a [StegoMessage](#) by extracting from the public ByteArray of the CarrierMedia.
- override long **ComputeBandwidth** ()
Returns the data capacity of the carrier media with the given algorithm.

Public Attributes

- override string **Name** => "Least Significant Bit"

Protected Attributes

- override byte[] **Signature** => new byte[] { 0x6C, 0x73, 0x62, 0x51 }

Properties

- [BitValues WorkingBit](#) [get, set]
Get or set the bit that will be modified or read from.

5.23.1 Member Enumeration Documentation

5.23.1.1 `enum Stegosaurus.Algorithm.LSBAlgorithm.BitValues : byte` [strong]

Enum containing the different bit values.

5.23.2 Member Function Documentation

5.23.2.1 `override long Stegosaurus.Algorithm.LSBAlgorithm.ComputeBandwidth ()` [virtual]

Returns the data capacity of the carrier media with the given algorithm.

Implements [Stegosaurus.Algorithm.StegoAlgorithmBase](#).

5.23.2.2 `override void Stegosaurus.Algorithm.LSBAlgorithm.Embed (StegoMessage _message, IProgress< int > _progress, CancellationToken _ct)` [virtual]

Embeds a [StegoMessage](#) in the public ByteArray of the CarrierMedia.

Implements [Stegosaurus.Algorithm.StegoAlgorithmBase](#).

5.23.2.3 `override StegoMessage Stegosaurus.Algorithm.LSBAlgorithm.Extract ()` [virtual]

Returns a [StegoMessage](#) by extracting from the public ByteArray of the CarrierMedia.

Implements [Stegosaurus.Algorithm.StegoAlgorithmBase](#).

5.23.3 Property Documentation

5.23.3.1 `BitValues Stegosaurus.Algorithm.LSBAlgorithm.WorkingBit` [get], [set]

Get or set the bit that will be modified or read from.

The documentation for this class was generated from the following file:

- `Steganography/Stegosaurus/Algorithm/LSBAlgorithm.cs`

5.24 Stegosaurus.Utility.RandomNumberList Class Reference

Public Member Functions

- [RandomNumberList](#) (int `_seed`, int `_maxValue`)
Construct a [RandomNumberList](#) with a seed and maximum value.

Properties

- int [Next](#) [get]
Get the next integer in the random number sequence. Throws a `RandomNumbersOutOfRangeException` if there are no numbers left to generate.

5.24.1 Constructor & Destructor Documentation

5.24.1.1 Stegosaurus.Utility.RandomNumberList.RandomNumberList (int `_seed`, int `_maxValue`)

Construct a [RandomNumberList](#) with a seed and maximum value.

5.24.2 Property Documentation

5.24.2.1 int Stegosaurus.Utility.RandomNumberList.Next [get]

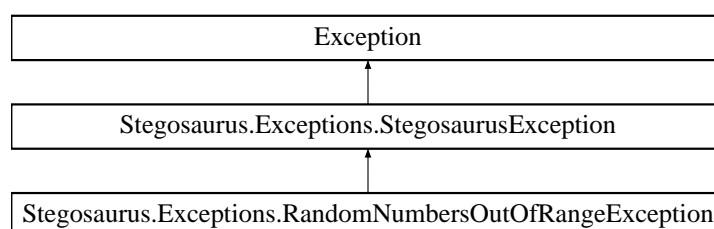
Get the next integer in the random number sequence. Throws a `RandomNumbersOutOfRangeException` if there are no numbers left to generate.

The documentation for this class was generated from the following file:

- `Steganography/Stegosaurus/Utility/RandomNumberList.cs`

5.25 Stegosaurus.Exceptions.RandomNumbersOutOfRangeException Class Reference

Inheritance diagram for `Stegosaurus.Exceptions.RandomNumbersOutOfRangeException`:



Additional Inherited Members

The documentation for this class was generated from the following file:

- Steganography/Stegosaurus/Exceptions/RandomNumbersOutOfRangeException.cs

5.26 Stegosaurus.Cryptography.RSAKeyPair Class Reference

Properties

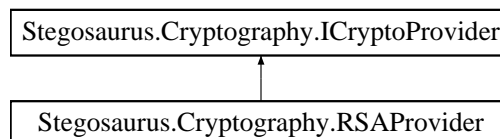
- string **PublicKey** [get, set]
- string **PrivateKey** [get, set]

The documentation for this class was generated from the following file:

- Steganography/Stegosaurus/Cryptography/RSAKeyPair.cs

5.27 Stegosaurus.Cryptography.RSAProvider Class Reference

Inheritance diagram for Stegosaurus.Cryptography.RSAProvider:



Public Member Functions

- byte[] **Decrypt** (byte[] _data)
Decrypts and returns decrypted data.
- byte[] **Encrypt** (byte[] _data)
Encrypts and returns encrypted data.
- void **SetKey** (string _keyString)
Set the Key from a string.
- byte[] **GenerateKey** ()
Generates and returns a key which can be used with the algorithm.

Static Public Member Functions

- static **RSAKeyPair GenerateKeys** (int _keySize)

Public Attributes

- string **Name** => "RSA"
- int **Seed** => Key == null ? 0 : Parameters.Modulus.ComputeHash()
The same seed is needed for encryption and decryption. Since the public and private key share modulus, we use its hash as a seed.
- int **KeySize** => 2048

Properties

- byte[] **Key** [get, set]

5.27.1 Member Function Documentation

5.27.1.1 byte[] Stegosaurus.Cryptography.RSAProvider.Decrypt (byte[] _data)

Decrypts and returns decrypted data.

Implements [Stegosaurus.Cryptography.ICryptoProvider](#).

5.27.1.2 byte[] Stegosaurus.Cryptography.RSAProvider.Encrypt (byte[] _data)

Encrypts and returns encrypted data.

Implements [Stegosaurus.Cryptography.ICryptoProvider](#).

5.27.1.3 byte[] Stegosaurus.Cryptography.RSAProvider.GenerateKey ()

Generates and returns a key which can be used with the algorithm.

Implements [Stegosaurus.Cryptography.ICryptoProvider](#).

5.27.1.4 void Stegosaurus.Cryptography.RSAProvider.SetKey (string _keyString)

Set the Key from a string.

Implements [Stegosaurus.Cryptography.ICryptoProvider](#).

5.27.2 Member Data Documentation

5.27.2.1 int Stegosaurus.Cryptography.RSAProvider.Seed => Key == null ? 0 : Parameters.Modulus.ComputeHash()

The same seed is needed for encryption and decryption. Since the public and private key share modulus, we use its hash as a seed.

The documentation for this class was generated from the following file:

- Steganography/Stegosaurus/Cryptography/RSAProvider.cs

5.28 Stegosaurus.Algorithm.GraphTheory.Sample Class Reference

Public Member Functions

- **Sample** (byte[] _bytes)

Public Attributes

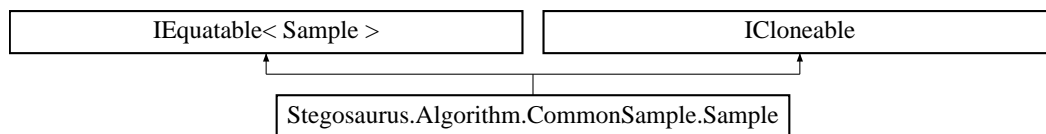
- byte[] **Bytes**
- short **Value**
- short **TargetValue**

The documentation for this class was generated from the following file:

- Steganography/Stegosaurus/Algorithm/GraphTheory/Sample.cs

5.29 Stegosaurus.Algorithm.CommonSample.Sample Class Reference

Inheritance diagram for Stegosaurus.Algorithm.CommonSample.Sample:



Public Member Functions

- **Sample** (params byte[] _values)
- void **ForceChanges** ()
- void **UpdateModValue** ()
- int **DistanceTo** ([Sample](#) otherSample)
- override int **GetHashCode** ()
- bool **Equals** ([Sample](#) other)
- object **Clone** ()

Static Public Member Functions

- static List< [Sample](#) > **GetSampleListFrom** ([ICarrierMedia](#) _carrierMedia)
Returns a list of all samples in the CarrierMedia.

Properties

- byte[] **Values** [get, set]
- int **LastDistance** [get, set]
- int **ModValue** [get, set]

5.29.1 Member Function Documentation

5.29.1.1 static List<Sample> Stegosaurus.Algorithm.CommonSample.Sample.GetSampleListFrom (ICarrierMedia _carrierMedia) [static]

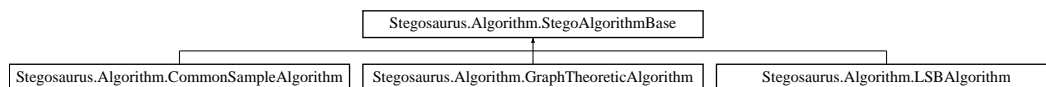
Returns a list of all samples in the CarrierMedia.

The documentation for this class was generated from the following file:

- Steganography/Stegosaurus/Algorithm/CommonSample/Sample.cs

5.30 Stegosaurus.Algorithm.StegoAlgorithmBase Class Reference

Inheritance diagram for Stegosaurus.Algorithm.StegoAlgorithmBase:



Public Member Functions

- abstract long [ComputeBandwidth](#) ()
Returns the data capacity of the carrier media with the given algorithm.
- abstract void [Embed](#) ([StegoMessage](#) _message, IProgress< int > _progress, CancellationToken _ct)
Embeds a [StegoMessage](#) in the public ByteArray of the CarrierMedia.
- abstract [StegoMessage](#) [Extract](#) ()
Returns a [StegoMessage](#) by extracting from the public ByteArray of the CarrierMedia.

Protected Attributes

- virtual int [Seed](#) => [CryptoProvider](#)?.Seed ?? 0
Get Seed used in pseudo-random pattern.

Properties

- abstract string [Name](#) [get]
Get the name of the algorithm.
- virtual [ICryptoProvider](#) [CryptoProvider](#) [get, set]
Get or set crypto provider.
- virtual [ICarrierMedia](#) [CarrierMedia](#) [get, set]
Get or set CarrierMedia.
- abstract byte[] [Signature](#) [get]
Get signature.

5.30.1 Member Function Documentation

5.30.1.1 `abstract long Stegosaurus.Algorithm.StegoAlgorithmBase.ComputeBandwidth () [pure virtual]`

Returns the data capacity of the carrier media with the given algorithm.

Implemented in [Stegosaurus.Algorithm.CommonSampleAlgorithm](#), [Stegosaurus.Algorithm.LSBAlgorithm](#), and [Stegosaurus.Algorithm.GraphTheoreticAlgorithm](#).

5.30.1.2 `abstract void Stegosaurus.Algorithm.StegoAlgorithmBase.Embed (StegoMessage _message, IProgress< int > _progress, CancellationToken _ct) [pure virtual]`

Embeds a [StegoMessage](#) in the public ByteArray of the CarrierMedia.

Implemented in [Stegosaurus.Algorithm.GraphTheoreticAlgorithm](#), [Stegosaurus.Algorithm.LSBAlgorithm](#), and [Stegosaurus.Algorithm.CommonSampleAlgorithm](#).

5.30.1.3 `abstract StegoMessage Stegosaurus.Algorithm.StegoAlgorithmBase.Extract () [pure virtual]`

Returns a [StegoMessage](#) by extracting from the public ByteArray of the CarrierMedia.

Implemented in [Stegosaurus.Algorithm.GraphTheoreticAlgorithm](#), [Stegosaurus.Algorithm.CommonSampleAlgorithm](#), and [Stegosaurus.Algorithm.LSBAlgorithm](#).

5.30.2 Member Data Documentation

5.30.2.1 `virtual int Stegosaurus.Algorithm.StegoAlgorithmBase.Seed => CryptoProvider?.Seed ?? 0 [protected]`

Get Seed used in pseudo-random pattern.

5.30.3 Property Documentation

5.30.3.1 `virtual ICarrierMedia Stegosaurus.Algorithm.StegoAlgorithmBase.CarrierMedia [get], [set]`

Get or set CarrierMedia.

5.30.3.2 `virtual ICryptoProvider Stegosaurus.Algorithm.StegoAlgorithmBase.CryptoProvider [get], [set]`

Get or set crypto provider.

5.30.3.3 `abstract string Stegosaurus.Algorithm.StegoAlgorithmBase.Name [get]`

Get the name of the algorithm.

5.30.3.4 `abstract byte [] Stegosaurus.Algorithm.StegoAlgorithmBase.Signature` `[get]`, `[protected]`

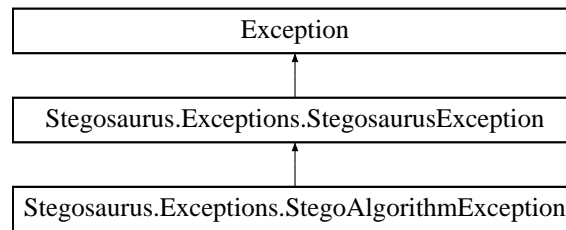
Get signature.

The documentation for this class was generated from the following file:

- `Steganography/Stegosaurus/Algorithm/StegoAlgorithmBase.cs`

5.31 Stegosaurus.Exceptions.StegoAlgorithmException Class Reference

Inheritance diagram for `Stegosaurus.Exceptions.StegoAlgorithmException`:



Public Member Functions

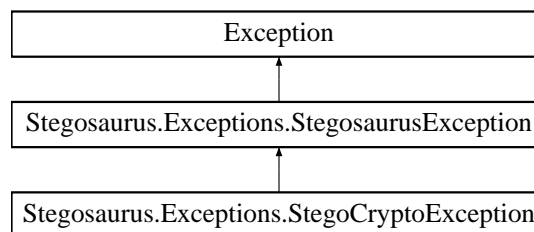
- **StegoAlgorithmException** (string message)

The documentation for this class was generated from the following file:

- `Steganography/Stegosaurus/Exceptions/StegoAlgorithmException.cs`

5.32 Stegosaurus.Exceptions.StegoCryptoException Class Reference

Inheritance diagram for `Stegosaurus.Exceptions.StegoCryptoException`:



Public Member Functions

- **StegoCryptoException** (string message)
- **StegoCryptoException** (string message, Exception inner)

The documentation for this class was generated from the following file:

- `Steganography/Stegosaurus/Exceptions/StegoCryptoException.cs`

5.33 Stegosaurus.StegoMessage Class Reference

Public Types

- enum **StegoMessageFlags** { **Encoded** = 0x1, **Compressed** = 0x2, **Encrypted** = 0x4, **Signed** = 0x8 }

Public Member Functions

- [StegoMessage](#) ()
Empty constructor.
- [StegoMessage](#) (string _textMessage)
This constructor is used if only a text message is applied.
- [StegoMessage](#) (byte[] _fromArray, [ICryptoProvider](#) _cryptoProvider=null)
This constructor takes a byte array containing the data to add to the [StegoMessage](#).
- byte[] [ToByteArray](#) ([ICryptoProvider](#) _cryptoProvider=null)
Converts text and/or file(s) into a byte array and combines them using a List. First part of the byte array contains the message file(s). The last part of the byte array is the text message if there is any.
- long [GetCompressedSize](#) ()
This method returns the compressed size of the data stored in this [StegoMessage](#).

Public Attributes

- StegoMessageFlags **Flags** = new List<[InputFile](#)>()

Properties

- string [TextMessage](#) [get, set]
This is the text message that can be saved in the [StegoMessage](#).
- List< [InputFile](#) > [InputFiles](#) [get]
This is where each file will be stored in the [StegoMessage](#).
- string [PrivateSigningKey](#) [get, set]
TODO: Write summary.

5.33.1 Constructor & Destructor Documentation

5.33.1.1 Stegosaurus.StegoMessage.StegoMessage ()

Empty constructor.

5.33.1.2 Stegosaurus.StegoMessage.StegoMessage (string _textMessage)

This constructor is used if only a text message is applied.

5.33.1.3 Stegosaurus.StegoMessage.StegoMessage (byte[] _fromArray, [ICryptoProvider](#) _cryptoProvider = null)

This constructor takes a byte array containing the data to add to the [StegoMessage](#).

5.33.2 Member Function Documentation

5.33.2.1 long Stegosaurus.StegoMessage.GetCompressedSize ()

This method returns the compressed size of the data stored in this [StegoMessage](#).

5.33.2.2 byte [] Stegosaurus.StegoMessage.ToByteArray (ICryptoProvider _cryptoProvider = null)

Converts text and/or file(s) into a byte array and combines them using a List. First part of the byte array contains the message file(s). The last part of the byte array is the text message if there is any.

5.33.3 Property Documentation

5.33.3.1 List<InputFile> Stegosaurus.StegoMessage.InputFiles [get]

This is where each file will be stored in the [StegoMessage](#).

5.33.3.2 string Stegosaurus.StegoMessage.PrivateSigningKey [get], [set]

TODO: Write summary.

5.33.3.3 string Stegosaurus.StegoMessage.TextMessage [get], [set]

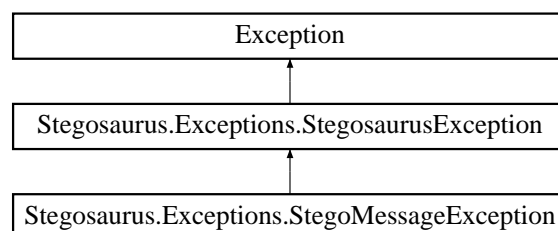
This is the text message that can be saved in the [StegoMessage](#).

The documentation for this class was generated from the following file:

- Steganography/Stegosaurus/StegoMessage.cs

5.34 Stegosaurus.Exceptions.StegoMessageException Class Reference

Inheritance diagram for Stegosaurus.Exceptions.StegoMessageException:



Public Attributes

- string **Name** => "TripleDES"
- int **Seed** => Key == null ? 0 : Key.ComputeHash()
- int **KeySize** => 192

Properties

- byte[] **Key** [get, set]

5.36.1 Member Function Documentation

5.36.1.1 byte[] Stegosaurus.Cryptography.TripleDESProvider.Decrypt (byte[] _data)

Decrypts and returns decrypted data.

Implements [Stegosaurus.Cryptography.ICryptoProvider](#).

5.36.1.2 byte[] Stegosaurus.Cryptography.TripleDESProvider.Encrypt (byte[] _data)

Encrypts and returns encrypted data.

Implements [Stegosaurus.Cryptography.ICryptoProvider](#).

5.36.1.3 byte[] Stegosaurus.Cryptography.TripleDESProvider.GenerateKey ()

Generates and returns a key which can be used with the algorithm.

Implements [Stegosaurus.Cryptography.ICryptoProvider](#).

5.36.1.4 void Stegosaurus.Cryptography.TripleDESProvider.SetKey (string _keyString)

Set the Key from a string.

Implements [Stegosaurus.Cryptography.ICryptoProvider](#).

The documentation for this class was generated from the following file:

- Steganography/Stegosaurus/Cryptography/TripleDESProvider.cs

5.37 Stegosaurus.Algorithm.GraphTheory.Vertex Class Reference

Public Member Functions

- **Vertex** ([Sample](#)[] _samples)
- override string **ToString** ()

Public Attributes

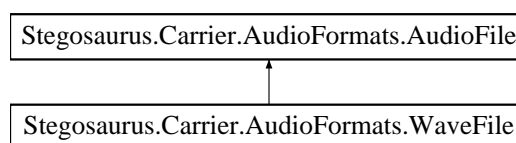
- [Sample\[\]](#) **Samples**
- List< [Edge](#) > **Edges** = new List<[Edge](#)>()
- short **Value**
- short **ValueDif**
- int **numEdges** = 0
- bool **IsValid**

The documentation for this class was generated from the following file:

- Steganography/Stegosaurus/Algorithm/GraphTheory/Vertex.cs

5.38 Stegosaurus.Carrier.AudioFormats.WaveFile Class Reference

Inheritance diagram for Stegosaurus.Carrier.AudioFormats.WaveFile:



Public Member Functions

- [WaveFile](#) (string _filePath)
Construct a [WaveFile](#) from a file path.
- override void [Parse](#) (string _filePath)
Parses an audio file by reading its headers and samples.
- override byte[] [ToArray](#) ()
Reconstructs and returns the entire byte array of the file, including headers.

Properties

- int [ChunkSize](#) [get]
Get or set the chunk size.
- int [FormatSubChunkSize](#) [get]
Get or set the size of the format subchunk.
- int [DataSubChunkSize](#) [get]
Get or set the size of the data subchunk.
- short [AudioFormat](#) [get]
Get or set the audio format.

Additional Inherited Members

5.38.1 Constructor & Destructor Documentation

5.38.1.1 Stegosaurus.Carrier.AudioFormats.WaveFile.WaveFile (string _filePath)

Construct a [WaveFile](#) from a file path.

5.38.2 Member Function Documentation

5.38.2.1 override void Stegosaurus.Carrier.AudioFormats.WaveFile.Parse (string _filePath) [virtual]

Parses an audio file by reading its headers and samples.

Implements [Stegosaurus.Carrier.AudioFormats.AudioFile](#).

5.38.2.2 override byte [] Stegosaurus.Carrier.AudioFormats.WaveFile.ToArray () [virtual]

Reconstructs and returns the entire byte array of the file, including headers.

Implements [Stegosaurus.Carrier.AudioFormats.AudioFile](#).

5.38.3 Property Documentation

5.38.3.1 short Stegosaurus.Carrier.AudioFormats.WaveFile.AudioFormat [get]

Get or set the audio format.

5.38.3.2 int Stegosaurus.Carrier.AudioFormats.WaveFile.ChunkSize [get]

Get or set the chunk size.

5.38.3.3 int Stegosaurus.Carrier.AudioFormats.WaveFile.DataSubChunkSize [get]

Get or set the size of the data subchunk.

5.38.3.4 int Stegosaurus.Carrier.AudioFormats.WaveFile.FormatSubChunkSize [get]

Get or set the size of the format subchunk.

The documentation for this class was generated from the following file:

- Steganography/Stegosaurus/Carrier/AudioFormats/WaveFile.cs

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