Namespace ZeroRedact

Classes

Redactor

Supports all classes in the .NET class hierarchy and provides low-level services to derived classes. This is the ultimate base class of all .NET classes; it is the root of the type hierarchy.

Structs

<u>CreditCardRedactorOptions</u>

Credit card redactor options.

DateRedactorOptions

Date redactor options.

EmailAddressRedactorOptions

Email address redactor options.

IPv4RedactorOptions

IPV4 redactor options.

IPv6RedactorOptions

IPv6 redactor options.

MACAddressRedactorOptions

MAC address redactor options.

PhoneNumberRedactorOptions

Phone number redactor options.

<u>RedactorOptions</u>

Provides options to be used with Redactor

<u>StringRedactorOptions</u>

String redactor options.

Enums

CreditCardRedaction

Defines the different types of redactions that can be applied to a credit card number.

DateRedaction

Defines the different types of redactions that can be applied to a date.

EmailAddressRedaction

Defines the different types of redactions that can be applied to an email address.

IPv4Redaction

Defines the different types of redactions that can be applied to an IPv4 address.

IPv6Redaction

Defines the different types of redactions that can be applied to an IPv6 address.

MACAddressRedaction

Defines the different types of redactions that can be applied to a MAC address.

PhoneNumberRedaction

Defines the different types of redactions that can be applied to a phone number.

StringRedaction

Defines the different types of redactions that can be applied to a string.

Enum CreditCardRedaction

Namespace: ZeroRedact
Assembly: ZeroRedact.dll

Defines the different types of redactions that can be applied to a credit card number.

public enum CreditCardRedaction

Fields

All = 0

The credit card number is redacted.

FixedLength = 1

The credit card number is redacted with a fixed length.

Full = 2

The credit card number is redacted, preserving symbols.

ShowFirstSixLastFour = 4

The first six digits and the last four digits of the credit card number are shown.

ShowLastFour = 3

The last four digits of the credit card number are shown.

Struct CreditCardRedactorOptions

Namespace: ZeroRedact
Assembly: ZeroRedact.dll

Credit card redactor options.

public readonly struct CreditCardRedactorOptions

Inherited Members

<u>ValueType.Equals(object)</u> ¬ , <u>ValueType.GetHashCode()</u> ¬ , <u>ValueType.ToString()</u> ¬ , <u>object.Equals(object, object)</u> ¬ , <u>object.ReferenceEquals(object, object)</u> ¬ .

Constructors

CreditCardRedactorOptions()

Constructs a new <u>CreditCardRedactorOptions</u> instance.

```
public CreditCardRedactorOptions()
```

Properties

FixedLengthSize

The fixed length size of the redaction.

```
public int FixedLengthSize { get; init; }
```

Property Value

<u>int</u>♂

RedactionCharacter

The character used for the redaction.

```
public char RedactionCharacter { get; init; }
```

Property Value

<u>char</u>♂

RedactorType

The type of redactor to apply.

```
public CreditCardRedaction RedactorType { get; init; }
```

Property Value

CreditCardRedaction

Enum DateRedaction

Namespace: ZeroRedact
Assembly: ZeroRedact.dll

Defines the different types of redactions that can be applied to a date.

public enum DateRedaction

Fields

All = 0

The date is redacted.

Day = 3

The day is redacted.

DayAndMonth = 6

The day and month are redacted.

DayAndYear = 8

The day and year are redacted.

FixedLength = 1

The date is redacted with a fixed length.

Full = 2

The date is redacted, showing the date separator.

Month = 4

The month is redacted.

MonthAndYear = 7

The month and year are redacted.

Year = 5

The year is redacted.

Struct DateRedactorOptions

Namespace: ZeroRedact
Assembly: ZeroRedact.dll

Date redactor options.

public readonly struct DateRedactorOptions

Inherited Members

<u>ValueType.Equals(object)</u> ¬ , <u>ValueType.GetHashCode()</u> ¬ , <u>ValueType.ToString()</u> ¬ , <u>object.Equals(object, object)</u> ¬ , <u>object.ReferenceEquals(object, object)</u> ¬ .

Constructors

DateRedactorOptions()

Constructs a new <u>DateRedactorOptions</u> instance.

```
public DateRedactorOptions()
```

Properties

FixedLengthSize

The fixed length size of the redaction.

```
public int FixedLengthSize { get; init; }
```

Property Value

<u>int</u>♂

RedactionCharacter

The character used for the redaction.

```
public char RedactionCharacter { get; init; }
```

Property Value

<u>char</u>♂

RedactorType

The type of redactor to apply.

```
public DateRedaction RedactorType { get; init; }
```

Property Value

DateRedaction

Enum EmailAddressRedaction

Namespace: ZeroRedact
Assembly: ZeroRedact.dll

Defines the different types of redactions that can be applied to an email address.

public enum EmailAddressRedaction

Fields

All = 0

The email address is redacted.

FirstHalfUsername = 4

The first half of the username is redacted.

FixedLength = 1

The email address is redacted with a fixed width.

Full = 2

Only the @ symbol and final dot is shown.

Middle = 5

The second half of the username and the first half of the domain are redacted.

MostUsername = 6

Only the first and last characters of the username are shown along with showing the full domain.

ShowFirstCharacters = 7

Only the first character of the username and host are shown along with showing the full domain.

Username = 3

The local-part/username is redacted.

Struct EmailAddressRedactorOptions

Namespace: ZeroRedact
Assembly: ZeroRedact.dll

Email address redactor options.

public readonly struct EmailAddressRedactorOptions

Inherited Members

<u>ValueType.Equals(object)</u> ¬ , <u>ValueType.GetHashCode()</u> ¬ , <u>ValueType.ToString()</u> ¬ , <u>object.Equals(object, object)</u> ¬ , <u>object.ReferenceEquals(object, object)</u> ¬ .

Constructors

EmailAddressRedactorOptions()

Constructs a new **EmailAddressRedactorOptions** instance.

public EmailAddressRedactorOptions()

Properties

FixedLengthSize

The fixed length size of the redaction.

```
public int FixedLengthSize { get; init; }
```

Property Value

int 2

RedactionCharacter

The character used for the redaction.

```
public char RedactionCharacter { get; init; }
```

Property Value

<u>char</u>♂

RedactorType

The type of redactor to apply.

```
public EmailAddressRedaction RedactorType { get; init; }
```

Property Value

EmailAddressRedaction

Enum IPv4Redaction

Namespace: ZeroRedact
Assembly: ZeroRedact.dll

Defines the different types of redactions that can be applied to an IPv4 address.

public enum IPv4Redaction

Fields

All = 0

The IPv4 address is redacted.

FixedLength = 1

The IPv4 address is redacted with a fixed length.

Full = 2

The IPv4 address is redacted, preserving symbols.

ShowLastOctet = 3

The last octet of the IPv4 address are shown.

Struct IPv4RedactorOptions

Namespace: ZeroRedact
Assembly: ZeroRedact.dll

IPV4 redactor options.

public readonly struct IPv4RedactorOptions

Inherited Members

<u>ValueType.Equals(object)</u> ¬ , <u>ValueType.GetHashCode()</u> ¬ , <u>ValueType.ToString()</u> ¬ , <u>object.Equals(object, object)</u> ¬ , <u>object.ReferenceEquals(object, object)</u> ¬ .

Constructors

IPv4RedactorOptions()

Constructs a new <u>IPv4RedactorOptions</u> instance.

```
public IPv4RedactorOptions()
```

Properties

FixedLengthSize

The fixed length size of the redaction.

```
public int FixedLengthSize { get; init; }
```

Property Value

<u>int</u>♂

RedactionCharacter

The character used for the redaction.

```
public char RedactionCharacter { get; init; }
```

Property Value

<u>char</u>♂

RedactorType

The type of redactor to apply.

```
public IPv4Redaction RedactorType { get; init; }
```

Property Value

IPv4Redaction

Enum IPv6Redaction

Namespace: ZeroRedact
Assembly: ZeroRedact.dll

Defines the different types of redactions that can be applied to an IPv6 address.

public enum IPv6Redaction

Fields

All = 0

The IPv6 address is redacted.

FixedLength = 1

The IPv4 address is redacted with a fixed length.

Full = 2

The IPv4 address is redacted, preserving symbols.

ShowLastQuartet = 3

The last quartet of the IPv6 address are shown.

Struct IPv6RedactorOptions

Namespace: ZeroRedact
Assembly: ZeroRedact.dll

IPv6 redactor options.

public readonly struct IPv6RedactorOptions

Inherited Members

<u>ValueType.Equals(object)</u> ¬ , <u>ValueType.GetHashCode()</u> ¬ , <u>ValueType.ToString()</u> ¬ , <u>object.Equals(object, object)</u> ¬ , <u>object.ReferenceEquals(object, object)</u> ¬ .

Constructors

IPv6RedactorOptions()

Constructs a new <u>IPv6RedactorOptions</u> instance.

```
public IPv6RedactorOptions()
```

Properties

FixedLengthSize

The fixed length size of the redaction.

```
public int FixedLengthSize { get; init; }
```

Property Value

<u>int</u>♂

RedactionCharacter

The character used for the redaction.

```
public char RedactionCharacter { get; init; }
```

Property Value

<u>char</u>♂

RedactorType

The type of redactor to apply.

```
public IPv6Redaction RedactorType { get; init; }
```

Property Value

IPv6Redaction

Enum MACAddressRedaction

Namespace: ZeroRedact
Assembly: ZeroRedact.dll

Defines the different types of redactions that can be applied to a MAC address.

public enum MACAddressRedaction

Fields

All = 0

The MAC address is redacted.

FixedLength = 1

The MAC address is redacted with a fixed length.

Full = 2

The MAC address is redacted, preserving symbols.

ShowLastByte = 3

The last byte of the MAC address is shown.

Struct MACAddressRedactorOptions

Namespace: ZeroRedact
Assembly: ZeroRedact.dll

MAC address redactor options.

public readonly struct MACAddressRedactorOptions

Inherited Members

<u>ValueType.Equals(object)</u> ¬ , <u>ValueType.GetHashCode()</u> ¬ , <u>ValueType.ToString()</u> ¬ , <u>object.Equals(object, object)</u> ¬ , <u>object.ReferenceEquals(object, object)</u> ¬ .

Constructors

MACAddressRedactorOptions()

Constructs a new MACAddressRedactorOptions instance.

public MACAddressRedactorOptions()

Properties

FixedLengthSize

The fixed length size of the redaction.

```
public int FixedLengthSize { get; init; }
```

Property Value

int 2

RedactionCharacter

The character used for the redaction.

```
public char RedactionCharacter { get; init; }
```

Property Value

<u>char</u>♂

RedactorType

The type of redactor to apply.

```
public MACAddressRedaction RedactorType { get; init; }
```

Property Value

MACAddressRedaction

Enum PhoneNumberRedaction

Namespace: ZeroRedact
Assembly: ZeroRedact.dll

Defines the different types of redactions that can be applied to a phone number.

public enum PhoneNumberRedaction

Fields

All = 0

The phone number is redacted.

FixedLength = 1

The phone number is redacted with a fixed length.

Full = 2

The phone number is redacted, preserving symbols.

ShowLastFour = 3

The last four digits of the credit card number are shown.

Struct PhoneNumberRedactorOptions

Namespace: ZeroRedact
Assembly: ZeroRedact.dll

Phone number redactor options.

public readonly struct PhoneNumberRedactorOptions

Inherited Members

<u>ValueType.Equals(object)</u> ¬ , <u>ValueType.GetHashCode()</u> ¬ , <u>ValueType.ToString()</u> ¬ , <u>object.Equals(object, object)</u> ¬ , <u>object.ReferenceEquals(object, object)</u> ¬ .

Constructors

PhoneNumberRedactorOptions()

Constructs a new **PhoneNumberRedactorOptions** instance.

public PhoneNumberRedactorOptions()

Properties

FixedLengthSize

The fixed length size of the redaction.

```
public int FixedLengthSize { get; init; }
```

Property Value

i<u>nt</u>♂

RedactionCharacter

The character used for the redaction.

```
public char RedactionCharacter { get; init; }
```

Property Value

<u>char</u>♂

RedactorType

The type of redactor to apply.

```
public PhoneNumberRedaction RedactorType { get; init; }
```

Property Value

PhoneNumberRedaction

Class Redactor

Namespace: ZeroRedact
Assembly: ZeroRedact.dll

Supports all classes in the .NET class hierarchy and provides low-level services to derived classes. This is the ultimate base class of all .NET classes; it is the root of the type hierarchy.

```
public sealed class Redactor : IRedactor
```

Inheritance

<u>object</u>

✓ Redactor

Implements

IRedactor

Inherited Members

Constructors

Redactor()

Initializes a new instance of the Redactor class.

```
public Redactor()
```

Redactor(RedactorOptions)

Initializes a new instance of the **Redactor** class with the specified options.

```
public Redactor(RedactorOptions options)
```

Parameters

options RedactorOptions

The options to configure the redactor.

Exceptions

<u>ArgumentOutOfRangeException</u>

☑

Thrown when options has a lass than 0 FixedLengthSize.

Methods

RedactCreditCard(ReadOnlySpan < char >)

Redacts the provided credit card number.

public ReadOnlySpan<char> RedactCreditCard(ReadOnlySpan<char> creditCardNumber)

Parameters

creditCardNumber ReadOnlySpan♂<char♂>

The credit card number to redact.

Returns

<u>ReadOnlySpan</u> ♂ < <u>char</u> ♂ >

RedactCreditCard(ReadOnlySpan < char > , CreditCardRedactorOptions)

Redacts the provided credit card number.

public ReadOnlySpan<char> RedactCreditCard(ReadOnlySpan<char> creditCardNumber, CreditCardRedactorOptions redactorOptions)

Parameters

creditCardNumber ReadOnlySpan♂<char♂>

The credit card number to redact.

redactorOptions CreditCardRedactorOptions

The options to control redaction behavior.

Returns

<u>ReadOnlySpan</u> ♂ < <u>char</u> ♂ >

RedactCreditCard(string)

Redacts the provided credit card number.

public string RedactCreditCard(string creditCardNumber)

Parameters

creditCardNumber <u>string</u> ✓

The credit card number to redact.

Returns

<u>string</u> ☑

RedactCreditCard(string, CreditCardRedactorOptions)

Redacts the provided credit card number.

public string RedactCreditCard(string creditCardNumber, CreditCardRedactorOptions
redactorOptions)

Parameters

creditCardNumber string♂

The credit card number to redact.

redactorOptions <u>CreditCardRedactorOptions</u>

The options to control redaction behavior.

Returns

<u>string</u> □

RedactDate(DateOnly)

Redacts the provided date.

```
public string RedactDate(DateOnly date)
```

Parameters

date <u>DateOnly</u> ✓

The date to redact.

Returns

<u>string</u> □

Returns redacted short date formatted for the current CultureInfo.

RedactDate(DateOnly, DateRedactorOptions)

Redacts the provided date.

```
public string RedactDate(DateOnly date, DateRedactorOptions redactorOptions)
```

Parameters

date <u>DateOnly</u> ✓

The date to redact.

redactorOptions <u>DateRedactorOptions</u>

The options to control redaction behavior.

Returns

<u>string</u> □

Returns redacted short date formatted for the current CultureInfo.

RedactDate(DateTime)

Redacts the provided date.

```
public string RedactDate(DateTime date)
```

Parameters

date <u>DateTime</u> □

The date to redact.

Returns

Returns redacted short date formatted for the current CultureInfo.

RedactDate(DateTime, DateRedactorOptions)

Redacts the provided date.

```
public string RedactDate(DateTime date, DateRedactorOptions redactorOptions)
```

Parameters

date <u>DateTime</u> □

The date to redact.

redactorOptions <u>DateRedactorOptions</u>

The options to control redaction behavior.

Returns

<u>string</u> □

Returns redacted short date formatted for the current CultureInfo.

RedactEmailAddress(MailAddress)

Redacts the provided email address.

public string RedactEmailAddress(MailAddress emailAddress)

Parameters

emailAddress MailAddress♂

The email address to redact.

Returns

<u>string</u> ☑

RedactEmailAddress(MailAddress, EmailAddressRedactorOptions)

Redacts the provided email address.

public string RedactEmailAddress(MailAddress emailAddress, EmailAddressRedactorOptions
redactorOptions)

Parameters

emailAddress <u>MailAddress</u>♂

The email address to redact.

redactorOptions <u>EmailAddressRedactorOptions</u>

The options to control redaction behavior.

Returns

<u>string</u> □

RedactEmailAddress(ReadOnlySpan < char >)

Redacts the provided email address.

```
public ReadOnlySpan<char> RedactEmailAddress(ReadOnlySpan<char> emailAddress)
```

Parameters

emailAddress <u>ReadOnlySpan</u>♂<<u>char</u>♂>

The email address to redact.

Returns

ReadOnlySpan d < char d >

RedactEmailAddress(ReadOnlySpan < char > , EmailAddressRedactorOptions)

Redacts the provided email address.

```
public ReadOnlySpan<char> RedactEmailAddress(ReadOnlySpan<char> emailAddress,
EmailAddressRedactorOptions redactorOptions)
```

Parameters

emailAddress ReadOnlySpand < chard>

The email address to redact.

redactorOptions <u>EmailAddressRedactorOptions</u>

The options to control redaction behavior.

Returns

RedactEmailAddress(string)

Redacts the provided email address.

public string RedactEmailAddress(string emailAddress)

Parameters

emailAddress string@

The email address to redact.

Returns

<u>string</u> ♂

RedactEmailAddress(string, EmailAddressRedactorOptions)

Redacts the provided email address.

public string RedactEmailAddress(string emailAddress, EmailAddressRedactorOptions
redactorOptions)

Parameters

emailAddress <u>string</u>♂

The email address to redact.

redactorOptions <u>EmailAddressRedactorOptions</u>

The options to control redaction behavior.

Returns

RedactIPv4Address(ReadOnlySpan<char>)

Redacts the provided IPv4 address.

public ReadOnlySpan<char> RedactIPv4Address(ReadOnlySpan<char> ipAddress)

Parameters

ipAddress <u>ReadOnlySpan</u>♂<<u>char</u>♂>

The IPv4 address to redact.

Returns

<u>ReadOnlySpan</u> ♂ < <u>char</u> ♂ >

RedactIPv4Address(ReadOnlySpan < char > , IPv4RedactorOptions)

Redacts the provided IPv4 address.

public ReadOnlySpan<char> RedactIPv4Address(ReadOnlySpan<char> ipAddress,
IPv4RedactorOptions redactorOptions)

Parameters

ipAddress <u>ReadOnlySpan</u>♂<<u>char</u>♂>

The IPv4 address to redact.

redactorOptions IPv4RedactorOptions

The options to control redaction behavior.

Returns

ReadOnlySpan < < char < > >

RedactIPv4Address(string)

Redacts the provided IPv4 address.

public string RedactIPv4Address(string ipAddress)

Parameters

ipAddress <u>string</u>♂

The IPv4 address to redact.

Returns

<u>string</u> **♂**

RedactIPv4Address(string, IPv4RedactorOptions)

Redacts the provided IPv4 address.

public string RedactIPv4Address(string ipAddress, IPv4RedactorOptions redactorOptions)

Parameters

ipAddress <u>string</u>♂

The IPv4 address to redact.

redactorOptions IPv4RedactorOptions

The options to control redaction behavior.

Returns

<u>string</u> ♂

RedactIPv6Address(ReadOnlySpan<char>)

Redacts the provided IPv6 address.

```
public ReadOnlySpan<char> RedactIPv6Address(ReadOnlySpan<char> ipAddress)
```

Parameters

ipAddress <u>ReadOnlySpan</u>♂<<u>char</u>♂>

The IPv6 address to redact

Returns

<u>ReadOnlySpan</u> d < <u>char</u> d >

RedactIPv6Address(ReadOnlySpan < char > , IPv6RedactorOptions)

Redacts the provided IPv6 address.

```
public ReadOnlySpan<char> RedactIPv6Address(ReadOnlySpan<char> ipAddress,
IPv6RedactorOptions redactorOptions)
```

Parameters

ipAddress <u>ReadOnlySpan</u>♂<<u>char</u>♂>

The IPv6 address to redact.

redactorOptions IPv6RedactorOptions

The options to control redaction behavior.

Returns

<u>ReadOnlySpan</u> ♂ < <u>char</u> ♂ >

RedactIPv6Address(string)

Redacts the provided IPv6 address.

```
public string RedactIPv6Address(string ipAddress)
```

Parameters

ipAddress <u>string</u>♂

The IPv6 address to redact

Returns

RedactIPv6Address(string, IPv6RedactorOptions)

Redacts the provided IPv6 address.

public string RedactIPv6Address(string ipAddress, IPv6RedactorOptions redactorOptions)

Parameters

ipAddress <u>string</u>♂

The IPv6 address to redact.

redactorOptions IPv6RedactorOptions

The options to control redaction behavior.

Returns

<u>string</u> □

RedactMACAddress(ReadOnlySpan < char >)

Redacts the provided MAC address.

public ReadOnlySpan<char> RedactMACAddress(ReadOnlySpan<char> macAddress)

macAddress <u>ReadOnlySpan</u>♂<<u>char</u>♂>

The MAC address to redact.

Returns

<u>ReadOnlySpan</u> ♂ < <u>char</u> ♂ >

RedactMACAddress(ReadOnlySpan < char > , MACAddressRedactorOptions)

Redacts the provided MAC address.

public ReadOnlySpan<char> RedactMACAddress(ReadOnlySpan<char> macAddress,
MACAddressRedactorOptions redactorOptions)

Parameters

macAddress <u>ReadOnlySpan</u>♂<<u>char</u>♂>

The MAC address to redact.

redactorOptions <u>MACAddressRedactorOptions</u>

The options to control redaction behavior.

Returns

<u>ReadOnlySpan</u> d < <u>char</u> d >

RedactMACAddress(string)

Redacts the provided MAC address.

public string RedactMACAddress(string macAddress)

Parameters

macAddress <u>string</u> ♂

The MAC address to redact.

Returns

<u>string</u> □

RedactMACAddress(string, MACAddressRedactorOptions)

Redacts the provided MAC address.

public string RedactMACAddress(string macAddress, MACAddressRedactorOptions redactorOptions)

Parameters

macAddress <u>string</u> ♂

The MAC address to redact.

redactorOptions <u>MACAddressRedactorOptions</u>

The options to control redaction behavior.

Returns

<u>string</u> ☑

RedactPhoneNumber(ReadOnlySpan < char >)

Redacts the provided phone number.

public ReadOnlySpan<char> RedactPhoneNumber(ReadOnlySpan<char> phoneNumber)

Parameters

phoneNumber <u>ReadOnlySpan</u>♂ < <u>char</u>♂ >

The phone number to redact.

Returns

ReadOnlySpan < char < > >

RedactPhoneNumber(ReadOnlySpan < char > , PhoneNumberRedactorOptions)

Redacts the provided phone number.

public ReadOnlySpan<char> RedactPhoneNumber(ReadOnlySpan<char> phoneNumber, PhoneNumberRedactorOptions redactorOptions)

Parameters

phoneNumber <u>ReadOnlySpan</u>♂<<u>char</u>♂>

The phone number to redact.

redactorOptions PhoneNumberRedactorOptions

The options to control redaction behavior.

Returns

ReadOnlySpan < char < > >

RedactPhoneNumber(string)

Redacts the provided phone number.

public string RedactPhoneNumber(string phoneNumber)

Parameters

phoneNumber <u>string</u>♂

The phone number to redact.

Returns

RedactPhoneNumber(string, PhoneNumberRedactorOptions)

Redacts the provided phone number.

```
public string RedactPhoneNumber(string phoneNumber, PhoneNumberRedactorOptions
redactorOptions)
```

Parameters

phoneNumber <u>string</u> ☑

The phone number to redact.

redactorOptions PhoneNumberRedactorOptions

The options to control redaction behavior.

Returns

<u>string</u> □

RedactString(ReadOnlySpan<char>)

Redacts the provided string.

```
public ReadOnlySpan<char> RedactString(ReadOnlySpan<char> value)
```

Parameters

value <u>ReadOnlySpan</u>♂<<u>char</u>♂>

The string to redact.

Returns

<u>ReadOnlySpan</u> ♂ < <u>char</u> ♂ >

RedactString(ReadOnlySpan < char > , StringRedactorOptions)

Redacts the provided string.

```
public ReadOnlySpan<char> RedactString(ReadOnlySpan<char> value,
StringRedactorOptions redactorOptions)
```

Parameters

value <u>ReadOnlySpan</u>♂<<u>char</u>♂>

The string to redact.

redactorOptions StringRedactorOptions

The redactorOptions to control redaction behavior.

Returns

ReadOnlySpan < char < > >

RedactString(string)

Redacts the provided string.

```
public string RedactString(string value)
```

Parameters

value <u>string</u> ♂

The string to redact.

Returns

<u>string</u> □

RedactString(string, StringRedactorOptions)

Redacts the provided string.

public string RedactString(string value, StringRedactorOptions redactorOptions)

Parameters

value <u>string</u>♂

The string to redact.

redactorOptions StringRedactorOptions

The redactorOptions to control redaction behavior.

Returns

Struct RedactorOptions

Namespace: ZeroRedact
Assembly: ZeroRedact.dll

Provides options to be used with Redactor

public readonly struct RedactorOptions

Inherited Members

<u>ValueType.Equals(object)</u> ¬ , <u>ValueType.GetHashCode()</u> ¬ , <u>ValueType.ToString()</u> ¬ , <u>object.Equals(object, object)</u> ¬ , <u>object.ReferenceEquals(object, object)</u> ¬ .

Constructors

RedactorOptions()

Constructs a new <u>RedactorOptions</u> instance.

public RedactorOptions()

Properties

Credit Card Redactor Options

The options for redacting credit card numbers.

public CreditCardRedactorOptions CreditCardRedactorOptions { get; init; }

Property Value

<u>CreditCardRedactorOptions</u>

DateRedactorOptions

The options for redacting dates.

```
public DateRedactorOptions DateRedactorOptions { get; init; }
```

Property Value

<u>DateRedactorOptions</u>

Email Address Red actor Options

The options for redacting email addresses.

```
public EmailAddressRedactorOptions EmailAddressRedactorOptions { get; init; }
```

Property Value

EmailAddressRedactorOptions

FixedLengthSize

The fixed length size of the redaction.

```
public int FixedLengthSize { get; init; }
```

Property Value

<u>int</u>♂

IPv4RedactorOptions

The options for redacting IPv4 addresses.

```
public IPv4RedactorOptions IPv4RedactorOptions { get; init; }
```

Property Value

IPv6RedactorOptions

The options for redacting IPv6 addresses.

```
public IPv6RedactorOptions IPv6RedactorOptions { get; init; }
```

Property Value

IPv6RedactorOptions

MACAddressRedactorOptions

The MAC address redactor options.

```
public MACAddressRedactorOptions MACAddressRedactorOptions { get; init; }
```

Property Value

MACAddressRedactorOptions

PhoneNumberRedactorOptions

The options for redacting phone numbers.

```
public PhoneNumberRedactorOptions PhoneNumberRedactorOptions { get; init; }
```

Property Value

<u>PhoneNumberRedactorOptions</u>

RedactionCharacter

The character used for the redaction.

```
public char RedactionCharacter { get; init; }
```

Property Value

<u>char</u>♂

String Red actor Options

The options for redacting strings.

```
public StringRedactorOptions StringRedactorOptions { get; init; }
```

Property Value

StringRedactorOptions

Enum StringRedaction

Namespace: ZeroRedact
Assembly: ZeroRedact.dll

Defines the different types of redactions that can be applied to a string.

public enum StringRedaction

Fields

All = 0

The string is redacted.

FirstHalf = 2

The first half of the string is redacted.

FixedLength = 1

The string is redacted with a fixed length.

IgnoreSymbols = 4

All characters are redacted except symbols.

SecondHalf = 3

The second half of the string is redacted.

Struct StringRedactorOptions

Namespace: ZeroRedact
Assembly: ZeroRedact.dll

String redactor options.

public readonly struct StringRedactorOptions

Inherited Members

<u>ValueType.Equals(object)</u> ¬ , <u>ValueType.GetHashCode()</u> ¬ , <u>ValueType.ToString()</u> ¬ , <u>object.Equals(object, object)</u> ¬ , <u>object.ReferenceEquals(object, object)</u> ¬ .

Constructors

StringRedactorOptions()

Constructs a new **StringRedactorOptions** instance.

```
public StringRedactorOptions()
```

Properties

FixedLengthSize

The fixed length size of the redaction.

```
public int FixedLengthSize { get; init; }
```

Property Value

<u>int</u>♂

RedactionCharacter

The character used for the redaction.

```
public char RedactionCharacter { get; init; }
```

Property Value

<u>char</u>♂

RedactorType

The type of redactor to apply.

```
public StringRedaction RedactorType { get; init; }
```

Property Value

<u>StringRedaction</u>

Namespace ZeroRedact.Redactors

Interfaces

<u>IRedactor</u>

Implements redaction capabilities.

Interface IRedactor

Namespace: ZeroRedact.Redactors

Assembly: ZeroRedact.dll

Implements redaction capabilities.

public interface IRedactor

Methods

RedactCreditCard(ReadOnlySpan < char >)

Redacts the provided credit card number.

ReadOnlySpan<char> RedactCreditCard(ReadOnlySpan<char> creditCardNumber)

Parameters

creditCardNumber <u>ReadOnlySpan</u>♂<<u>char</u>♂>

The credit card number to redact.

Returns

ReadOnlySpan < < char < > >

RedactCreditCard(ReadOnlySpan < char > , CreditCardRedactorOptions)

Redacts the provided credit card number.

ReadOnlySpan<char> RedactCreditCard(ReadOnlySpan<char> creditCardNumber, CreditCardRedactorOptions redactorOptions) creditCardNumber <u>ReadOnlySpan</u>♂<<u>char</u>♂>

The credit card number to redact.

redactorOptions CreditCardRedactorOptions

The options to control redaction behavior.

Returns

<u>ReadOnlySpan</u> ♂ < <u>char</u> ♂ >

RedactCreditCard(string)

Redacts the provided credit card number.

string RedactCreditCard(string creditCardNumber)

Parameters

creditCardNumber <u>string</u>♂

The credit card number to redact.

Returns

<u>string</u> **☑**

RedactCreditCard(string, CreditCardRedactorOptions)

Redacts the provided credit card number.

string RedactCreditCard(string creditCardNumber, CreditCardRedactorOptions redactorOptions)

Parameters

creditCardNumber <u>string</u> ✓

The credit card number to redact.

redactorOptions <u>CreditCardRedactorOptions</u>

The options to control redaction behavior.

Returns

<u>string</u> □

RedactDate(DateOnly)

Redacts the provided date.

string RedactDate(DateOnly date)

Parameters

date <u>DateOnly</u> ☑

The date to redact.

Returns

<u>string</u> □

Returns redacted short date formatted for the current CultureInfo.

RedactDate(DateOnly, DateRedactorOptions)

Redacts the provided date.

string RedactDate(DateOnly date, DateRedactorOptions redactorOptions)

Parameters

date <u>DateOnly</u> ✓

The date to redact.

redactorOptions <u>DateRedactorOptions</u>

The options to control redaction behavior.

Returns

<u>string</u> □

Returns redacted short date formatted for the current CultureInfo.

RedactDate(DateTime)

Redacts the provided date.

```
string RedactDate(DateTime date)
```

Parameters

date <u>DateTime</u> □

The date to redact.

Returns

Returns redacted short date formatted for the current CultureInfo.

RedactDate(DateTime, DateRedactorOptions)

Redacts the provided date.

string RedactDate(DateTime date, DateRedactorOptions redactorOptions)

Parameters

date <u>DateTime</u> □

The date to redact.

redactorOptions <u>DateRedactorOptions</u>

The options to control redaction behavior.

Returns

<u>string</u> □

Returns redacted short date formatted for the current CultureInfo.

RedactEmailAddress(MailAddress)

Redacts the provided email address.

string RedactEmailAddress(MailAddress emailAddress)

Parameters

emailAddress MailAddress♂

The email address to redact.

Returns

RedactEmailAddress (MailAddress, EmailAddress Redactor Options)

Redacts the provided email address.

string RedactEmailAddress(MailAddress emailAddress, EmailAddressRedactorOptions
redactorOptions)

Parameters

emailAddress MailAddress♂

The email address to redact.

redactorOptions <u>EmailAddressRedactorOptions</u>

The options to control redaction behavior.

Returns

<u>string</u> ☑

RedactEmailAddress(ReadOnlySpan < char >)

Redacts the provided email address.

ReadOnlySpan<char> RedactEmailAddress(ReadOnlySpan<char> emailAddress)

Parameters

emailAddress <u>ReadOnlySpan</u>♂<<u>char</u>♂>

The email address to redact.

Returns

ReadOnlySpan d < char d >

RedactEmailAddress(ReadOnlySpan < char > , EmailAddressRedactorOptions)

Redacts the provided email address.

ReadOnlySpan<char> RedactEmailAddress(ReadOnlySpan<char> emailAddress, EmailAddressRedactorOptions redactorOptions)

Parameters

emailAddress ReadOnlySpand < chard>

The email address to redact.

redactorOptions <u>EmailAddressRedactorOptions</u>

The options to control redaction behavior.

Returns

ReadOnlySpan < char < > >

RedactEmailAddress(string)

Redacts the provided email address.

string RedactEmailAddress(string emailAddress)

Parameters

emailAddress string@

The email address to redact.

Returns

<u>string</u> ♂

RedactEmailAddress(string, EmailAddressRedactorOptions)

Redacts the provided email address.

string RedactEmailAddress(string emailAddress, EmailAddressRedactorOptions redactorOptions)

Parameters

emailAddress string@

The email address to redact.

redactorOptions <u>EmailAddressRedactorOptions</u>

The options to control redaction behavior.

Returns

<u>string</u> ♂

RedactIPv4Address(ReadOnlySpan<char>)

Redacts the provided IPv4 address.

ReadOnlySpan<char> RedactIPv4Address(ReadOnlySpan<char> ipAddress)

Parameters

ipAddress <u>ReadOnlySpan</u>♂<<u>char</u>♂>

The IPv4 address to redact.

Returns

ReadOnlySpan ♂ < char ♂ >

RedactIPv4Address(ReadOnlySpan<char>, IPv4RedactorOptions)

Redacts the provided IPv4 address.

ReadOnlySpan<char> RedactIPv4Address(ReadOnlySpan<char> ipAddress,
IPv4RedactorOptions redactorOptions)

Parameters

ipAddress <u>ReadOnlySpan</u>♂<<u>char</u>♂>

The IPv4 address to redact.

redactorOptions IPv4RedactorOptions

The options to control redaction behavior.

Returns

ReadOnlySpan < char < > >

RedactIPv4Address(string)

Redacts the provided IPv4 address.

string RedactIPv4Address(string ipAddress)

Parameters

ipAddress <u>string</u>♂

The IPv4 address to redact.

Returns

RedactIPv4Address(string, IPv4RedactorOptions)

Redacts the provided IPv4 address.

string RedactIPv4Address(string ipAddress, IPv4RedactorOptions redactorOptions)

Parameters

ipAddress <u>string</u>♂

The IPv4 address to redact.

redactorOptions IPv4RedactorOptions

The options to control redaction behavior.

Returns

<u>string</u> **♂**

RedactIPv6Address(ReadOnlySpan<char>)

Redacts the provided IPv6 address.

ipAddress <u>ReadOnlySpan</u>♂<<u>char</u>♂>

The IPv6 address to redact

Returns

ReadOnlySpan ♂ < char ♂ >

RedactIPv6Address(ReadOnlySpan < char > , IPv6RedactorOptions)

Redacts the provided IPv6 address.

ReadOnlySpan<char> RedactIPv6Address(ReadOnlySpan<char> ipAddress,
IPv6RedactorOptions redactorOptions)

Parameters

ipAddress <u>ReadOnlySpan</u>♂<<u>char</u>♂>

The IPv6 address to redact.

redactorOptions IPv6RedactorOptions

The options to control redaction behavior.

Returns

ReadOnlySpan < < char < > >

RedactIPv6Address(string)

Redacts the provided IPv6 address.

```
string RedactIPv6Address(string ipAddress)
```

ipAddress <u>string</u>♂

The IPv6 address to redact

Returns

RedactIPv6Address(string, IPv6RedactorOptions)

Redacts the provided IPv6 address.

string RedactIPv6Address(string ipAddress, IPv6RedactorOptions redactorOptions)

Parameters

ipAddress <u>string</u>♂

The IPv6 address to redact.

redactorOptions IPv6RedactorOptions

The options to control redaction behavior.

Returns

<u>string</u> □

RedactMACAddress(ReadOnlySpan < char >)

Redacts the provided MAC address.

ReadOnlySpan<char> RedactMACAddress(ReadOnlySpan<char> macAddress)

macAddress <u>ReadOnlySpan</u>♂<<u>char</u>♂>

The MAC address to redact.

Returns

<u>ReadOnlySpan</u> ♂ < <u>char</u> ♂ >

RedactMACAddress(ReadOnlySpan < char > , MACAddressRedactorOptions)

Redacts the provided MAC address.

ReadOnlySpan<char> RedactMACAddress(ReadOnlySpan<char> macAddress, MACAddressRedactorOptions redactorOptions)

Parameters

macAddress <u>ReadOnlySpan</u>♂<<u>char</u>♂>

The MAC address to redact.

redactorOptions <u>MACAddressRedactorOptions</u>

The options to control redaction behavior.

Returns

<u>ReadOnlySpan</u> d < <u>char</u> d >

RedactMACAddress(string)

Redacts the provided MAC address.

string RedactMACAddress(string macAddress)

Parameters

macAddress <u>string</u> ♂

The MAC address to redact.

Returns

<u>string</u> □

RedactMACAddress(string, MACAddressRedactorOptions)

Redacts the provided MAC address.

string RedactMACAddress(string macAddress, MACAddressRedactorOptions redactorOptions)

Parameters

macAddress <u>string</u> ♂

The MAC address to redact.

redactorOptions <u>MACAddressRedactorOptions</u>

The options to control redaction behavior.

Returns

<u>string</u> ☑

RedactPhoneNumber(ReadOnlySpan < char >)

Redacts the provided phone number.

ReadOnlySpan<char> RedactPhoneNumber(ReadOnlySpan<char> phoneNumber)

Parameters

phoneNumber <u>ReadOnlySpan</u>♂ < <u>char</u>♂ >

The phone number to redact.

Returns

<u>ReadOnlySpan</u> ♂ < <u>char</u> ♂ >

RedactPhoneNumber(ReadOnlySpan < char > , PhoneNumberRedactorOptions)

Redacts the provided phone number.

ReadOnlySpan<char> RedactPhoneNumber(ReadOnlySpan<char> phoneNumber,
PhoneNumberRedactorOptions redactorOptions)

Parameters

phoneNumber <u>ReadOnlySpan</u>♂ < <u>char</u>♂ >

The phone number to redact.

redactorOptions PhoneNumberRedactorOptions

The options to control redaction behavior.

Returns

ReadOnlySpan d < char d >

RedactPhoneNumber(string)

Redacts the provided phone number.

string RedactPhoneNumber(string phoneNumber)

Parameters

phoneNumber <u>string</u>♂

The phone number to redact.

Returns

RedactPhoneNumber(string, PhoneNumberRedactorOptions)

Redacts the provided phone number.

string RedactPhoneNumber(string phoneNumber, PhoneNumberRedactorOptions redactorOptions)

Parameters

phoneNumber <u>string</u>♂

The phone number to redact.

redactorOptions PhoneNumberRedactorOptions

The options to control redaction behavior.

Returns

<u>string</u> □

RedactString(ReadOnlySpan < char >)

Redacts the provided string.

ReadOnlySpan<char> RedactString(ReadOnlySpan<char> value)

Parameters

value <u>ReadOnlySpan</u>♂<<u>char</u>♂>

The string to redact.

Returns

ReadOnlySpan < char < > >

RedactString(ReadOnlySpan < char > , StringRedactorOptions)

Redacts the provided string.

ReadOnlySpan<char> RedactString(ReadOnlySpan<char> value, StringRedactorOptions
redactorOptions)

Parameters

value <u>ReadOnlySpan</u>♂<<u>char</u>♂>

The string to redact.

redactorOptions StringRedactorOptions

The redactorOptions to control redaction behavior.

Returns

ReadOnlySpan < char < > >

RedactString(string)

Redacts the provided string.

string RedactString(string value)

Parameters

value <u>string</u> ♂

The string to redact.

Returns

<u>string</u> □

RedactString(string, StringRedactorOptions)

Redacts the provided string.

string RedactString(string value, StringRedactorOptions redactorOptions)

Parameters

value <u>string</u>♂

The string to redact.

 ${\tt redactorOptions} \ \underline{{\tt StringRedactorOptions}}$

The redactorOptions to control redaction behavior.

Returns