

Namespace CloudyWing.FormValidators

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Validation constrains the number format of a value.

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Class BulkValidator

Namespace: [CloudyWing.FormValidators](#)

Assembly: CloudyWing.FormValidators.dll

The bulk validator.

```
public class BulkValidator : Collection<IFormValidator>, IList<IFormValidator>,
    ICollection<IFormValidator>, IReadOnlyList<IFormValidator>,
    IReadOnlyCollection<IFormValidator>, IEnumerable<IFormValidator>, IList, ICollection,
    IEnumerable, IFormValidator
```

Inheritance

[object](#) ← [Collection](#)<[IFormValidator](#)> ← BulkValidator

Implements

[IList](#)<[IFormValidator](#)>, [ICollection](#)<[IFormValidator](#)>, [IReadOnlyList](#)<[IFormValidator](#)>,
 [IReadOnlyCollection](#)<[IFormValidator](#)>, [IEnumerable](#)<[IFormValidator](#)>, [IList](#), [ICollection](#),
 [IEnumerable](#), [IFormValidator](#)

Inherited Members

[Collection](#)<[IFormValidator](#)>.Add([IFormValidator](#)) , [Collection](#)<[IFormValidator](#)>.Clear() ,
[Collection](#)<[IFormValidator](#)>.ClearItems() , [Collection](#)<[IFormValidator](#)>.Contains([IFormValidator](#)) ,
[Collection](#)<[IFormValidator](#)>.CopyTo([IFormValidator](#)[], [int](#)) ,
[Collection](#)<[IFormValidator](#)>.GetEnumerator() , [Collection](#)<[IFormValidator](#)>.IndexOf([IFormValidator](#)) ,
[Collection](#)<[IFormValidator](#)>.Insert([int](#), [IFormValidator](#)) ,
[Collection](#)<[IFormValidator](#)>.InsertItem([int](#), [IFormValidator](#)) ,
[Collection](#)<[IFormValidator](#)>.Remove([IFormValidator](#)) , [Collection](#)<[IFormValidator](#)>.RemoveAt([int](#)) ,
[Collection](#)<[IFormValidator](#)>.RemoveItem([int](#)) ,
[Collection](#)<[IFormValidator](#)>.SetItem([int](#), [IFormValidator](#)) , [Collection](#)<[IFormValidator](#)>.Count ,
[Collection](#)<[IFormValidator](#)>.this[[int](#)] , [Collection](#)<[IFormValidator](#)>.Items , [object.Equals\(object\)](#) ,
[object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

BulkValidator(Action<ValidatorConfiguration>, bool)

Initializes a new instance of the [BulkValidator](#) class.

```
public BulkValidator(Action<ValidatorConfiguration> configure, bool isStoppedIfFail = false)
```

Parameters

configure [Action](#) <[ValidatorConfiguration](#)>

The configure.

isStoppedIfFail [bool](#)

if set to **true** [is stopped if fail].

BulkValidator(bool)

Initializes a new instance of the [BulkValidator](#) class.

```
public BulkValidator(bool isStoppedIfFail = false)
```

Parameters

isStoppedIfFail [bool](#)

if set to **true** [is stopped if fail].

Properties

ErrorMessage

Gets the error message, separated by br.

```
public string ErrorMessage { get; }
```

Property Value

[string](#)

The error message.

ErrorMessageWithBR

Gets the error message, separated by br.

```
public string ErrorMessageWithBR { get; }
```

Property Value

[string](#)

The error message separated by br.

ErrorMessageWithLF

Gets the error message, separated by \n.

```
public string ErrorMessageWithLF { get; }
```

Property Value

[string](#)

The error message separated by \n.

ErrorMessageWithNewLine

Gets the error message, separated by newlines.

```
public string ErrorMessageWithNewLine { get; }
```

Property Value

[string](#)

The error message separated by new line.

ErrorMessages

Gets the error messages.

```
public IReadOnlyCollection<string> ErrorMessages { get; }
```

Property Value

[IReadOnlyCollection](#)<[string](#)>

The error messages.

IsStoppedIfFail

Gets a value indicating whether this instance is stopped if fail.

```
public bool IsStoppedIfFail { get; }
```

Property Value

[bool](#)

true if this instance is stopped if fail; otherwise, **false**.

IsValid

Returns true if ... is valid.

```
public bool IsValid { get; }
```

Property Value

[bool](#)

true if this instance is valid; otherwise, **false**.

Methods

Validate()

Validates this instance.

```
public bool Validate()
```

Returns

[bool](#)

The validation result.

Class CompareValidator

Namespace: [CloudyWing.FormValidators](#)

Assembly: CloudyWing.FormValidators.dll

Compare the value of one column with the value of another column.

```
public class CompareValidator : FormValidatorBase, IFormValidator
```

Inheritance

[object](#) ← [FormValidatorBase](#) ← CompareValidator

Implements

[IFormValidator](#)

Inherited Members

[FormValidatorBase.Column](#) , [FormValidatorBase.Value](#) , [FormValidatorBase.ErrorMessage](#) ,
[FormValidatorBase.IsValid](#) , [FormValidatorBase.Validate\(\)](#) , [FormValidatorBase.CreateErrorMessage\(\)](#) ,
[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

CompareValidator(string, string, string, string, Func<string, string, string, string>)

Initializes a new instance of the [CompareValidator](#) class.

```
public CompareValidator(string column, string value, string comparisonColumn, string  
comparisonValue, Func<string, string, string, string> customErrorMessageAccessor  
= null)
```

Parameters

column [string](#)

The column.

value [string](#)

The value.

comparisonColumn [string](#)

The comparison column.

comparisonValue [string](#)

The comparison value.

customErrorMessageAccessor [Func<string, string, string, string, string>](#)

The custom error message accessor. The arguments are column, value, comparison column, comparison value.

Properties

ComparisonColumn

Gets the comparison column.

```
public string ComparisonColumn { get; }
```

Property Value

[string](#)

The comparison column.

ComparisonValue

Gets the comparison value.

```
public string ComparisonValue { get; }
```

Property Value

[string](#)

The comparison value.

CustomErrorMessage

Gets the custom error message.

```
protected override string CustomErrorMessage { get; }
```

Property Value

[string](#)

The custom error message.

CustomErrorMessageAccessor

Gets the custom range message format.

```
public Func<string, string, string, string, string> CustomErrorMessageAccessor { get; set; }
```

Property Value

[Func](#)<[string](#), [string](#), [string](#), [string](#), [string](#)>

The custom range message format.

DefaultErrorMessage

Gets the default error message.

```
protected override string DefaultErrorMessage { get; }
```

Property Value

[string](#)

The default error message.

HasCustomErrorMessage

Gets a value indicating whether this instance has custom error message.

```
protected override bool HasCustomErrorMessage { get; }
```

Property Value

[bool](#)

true if this instance has custom error message; otherwise, **false**.

Methods

ValidateValue()

Validates the value.

```
protected override bool ValidateValue()
```

Returns

[bool](#)

The validation result.

See Also

[FormValidatorBase](#)

Class CreditCardValidator

Namespace: [CloudyWing.FormValidators](#)

Assembly: CloudyWing.FormValidators.dll

The credit card validator.

```
public sealed class CreditCardValidator : BasicFormValidator, IFormValidator
```

Inheritance

[object](#) ↗ ← [FormValidatorBase](#) ← [BasicFormValidator](#) ← CreditCardValidator

Implements

[IFormValidator](#)

Inherited Members

[BasicFormValidator.CustomErrorMessageAccessor](#) , [FormValidatorBase.Column](#) ,
[FormValidatorBase.Value](#) , [FormValidatorBase.ErrorMessage](#) , [FormValidatorBase.IsValid](#) ,
[FormValidatorBase.Validate\(\)](#) , [object.Equals\(object\)](#) ↗ , [object.Equals\(object, object\)](#) ↗ ,
[object.GetHashCode\(\)](#) ↗ , [object.GetType\(\)](#) ↗ , [object.ReferenceEquals\(object, object\)](#) ↗ ,
[object.ToString\(\)](#) ↗

Constructors

CreditCardValidator(string, string, Func<string, string, string>)

Initializes a new instance of the [CreditCardValidator](#) class.

```
public CreditCardValidator(string column, string value, Func<string, string, string>
customErrorMessageAccessor = null)
```

Parameters

column [string](#) ↗

The column.

value [string](#) ↗

The value.

`customErrorMessageAccessor` [Func<string, string, string>](#)

The custom error message accessor. The arguments are column, value.

Properties

DefaultErrorMessageAccessor

Gets the get default error message.

```
protected override Func<string, string, string> DefaultErrorMessageAccessor { get; }
```

Property Value

[Func<string, string, string>](#)

The get default error message.

Methods

ValidateValue()

Validates the value.

```
protected override bool ValidateValue()
```

Returns

[bool](#)

The validation result.

Class DateTimeLessThanValidator

Namespace: [CloudyWing.FormValidators](#)

Assembly: CloudyWing.FormValidators.dll

Validate that an date time value is less than another column value.

```
public sealed class DateTimeLessThanValidator : LessThanValidator<DateTime>, IFormValidator
```

Inheritance

[object](#) ← [FormValidatorBase](#) ← [LessThanValidator<DateTime](#) → ← [DateTimeLessThanValidator](#)

Implements

[IFormValidator](#)

Inherited Members

[LessThanValidator<DateTime>.ComparisonColumn](#) , [LessThanValidator<DateTime>.ComparisonValue](#) ,
[LessThanValidator<DateTime>.AllowedEqual](#) ,
[LessThanValidator<DateTime>.CustomErrorMessageAccessor](#) , [FormValidatorBase.Column](#) ,
[FormValidatorBase.Value](#) , [FormValidatorBase.ErrorMessage](#) , [FormValidatorBase.IsValid](#) ,
[FormValidatorBase.Validate\(\)](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) ,
[object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

`DateTimeLessThanValidator(string, string, string, string, bool, Func<string, string, string, string, bool, string>)`

Initializes a new instance of the [DateTimeLessThanValidator](#) class.

```
public DateTimeLessThanValidator(string column, string value, string comparisonColumn,
string comparisonValue, bool allowedEqual = true, Func<string, string, string, string, bool,
string> customErrorMessageAccessor = null)
```

Parameters

`column` [string](#)

The column.

value [string](#)

The value.

comparisonColumn [string](#)

The comparison column.

comparisonValue [string](#)

The comparison value.

allowedEqual [bool](#)

if set to `true` [allowed equal].

customErrorMessageAccessor [Func<string, string, string, string, bool, string>](#)

The custom error message accessor. The arguments are column, value, comparison column, comparison value, allowed equal.

Methods

TryParse(string, out DateTime)

Tries the parse.

```
protected override bool TryParse(string value, out DateTime result)
```

Parameters

value [string](#)

The value.

result [DateTime](#)

The result.

Returns

bool ↗

Parse value to type **T** result.

Class DateTimeValidator

Namespace: [CloudyWing.FormValidators](#)

Assembly: CloudyWing.FormValidators.dll

Validation constrains the date time format of a value.

```
public sealed class DateTimeValidator : ComparableTypeValidator<DateTime>, IFormValidator
```

Inheritance

[object](#) ← [FormValidatorBase](#) ← [ComparableTypeValidator](#)<[DateTime](#)> ← [DateTimeValidator](#)

Implements

[IFormValidator](#)

Inherited Members

[ComparableTypeValidator](#)<[DateTime](#)>.MinValue , [ComparableTypeValidator](#)<[DateTime](#)>.MaxValue ,
[ComparableTypeValidator](#)<[DateTime](#)>.CustomErrorMessageAccessor , [FormValidatorBase](#).Column ,
[FormValidatorBase](#).Value , [FormValidatorBase](#).ErrorMessage , [FormValidatorBase](#).IsValid ,
[FormValidatorBase](#).Validate() , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) ,
[object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

[DateTimeValidator\(string, string, Func<string, string, DateTime?, DateTime?, string>\)](#)

Initializes a new instance of the [DateTimeValidator](#) class.

```
public DateTimeValidator(string column, string value, Func<string, string, DateTime?,  
DateTime?, string> customErrorMessageAccessor = null)
```

Parameters

[column](#) [string](#)

The column.

value [string](#)

The value.

customErrorMessageAccessor [Func<string, string, DateTime?, DateTime?, string>](#)

The custom error message accessor. The arguments are column, value, min, max.

DateTimeValidator(string, string, DateTime?, DateTime?, Func<string, string, DateTime?, DateTime?, string>)

Initializes a new instance of the [ComparableTypeValidator<T>](#) class.

```
public DateTimeValidator(string column, string value, DateTime? min, DateTime? max,  
Func<string, string, DateTime?, DateTime?, string> customErrorMessageAccessor = null)
```

Parameters

column [string](#)

The column.

value [string](#)

The value.

min [DateTime?](#)

The minimum.

max [DateTime?](#)

The maximum.

customErrorMessageAccessor [Func<string, string, DateTime?, DateTime?, string>](#)

The custom error message accessor. The arguments are column, value, min, max.

Properties

CastErrorMessageAccessor

Gets the cast error message accessor.

```
protected override Func<string, string, string> CastErrorMessageAccessor { get; }
```

Property Value

[Func](#)<[string](#), [string](#), [string](#)>

The cast error message accessor.

Methods

TryParse(string, out DateTime)

Tries the parse.

```
protected override bool TryParse(string value, out DateTime result)
```

Parameters

value [string](#)

The value.

result [DateTime](#)

The result.

Returns

[bool](#)

Parse value to type **T** result.

Class EmailValidator

Namespace: [CloudyWing.FormValidators](#)

Assembly: CloudyWing.FormValidators.dll

The email validator.

```
public sealed class EmailValidator : RegexValidator, IFormValidator
```

Inheritance

[object](#) ↗ ← [FormValidatorBase](#) ← [BasicFormValidator](#) ← [RegexValidator](#) ← [EmailValidator](#)

Implements

[IFormValidator](#)

Inherited Members

[RegexValidator.Pattern](#) , [BasicFormValidator.CustomErrorMessageAccessor](#) , [FormValidatorBase.Column](#) ,
[FormValidatorBase.Value](#) , [FormValidatorBase.ErrorMessage](#) , [FormValidatorBase.IsValid](#) ,
[FormValidatorBase.Validate\(\)](#) , [object.Equals\(object\)](#) ↗ , [object.Equals\(object, object\)](#) ↗ ,
[object.GetHashCode\(\)](#) ↗ , [object.GetType\(\)](#) ↗ , [object.ReferenceEquals\(object, object\)](#) ↗ ,
[object.ToString\(\)](#) ↗

Constructors

[EmailValidator\(string, string, Func<string, string, string>\)](#)

Initializes a new instance of the [EmailValidator](#) class.

```
public EmailValidator(string column, string value, Func<string, string, string>
customErrorMessageAccessor = null)
```

Parameters

column [string](#) ↗

The column.

value [string](#) ↗

The value.

`customErrorMessageAccessor` [Func<string, string, string>](#)

The custom error message accessor. The arguments are column, value.

Properties

DefaultErrorMessageAccessor

Gets the get default error message.

```
protected override Func<string, string, string> DefaultErrorMessageAccessor { get; }
```

Property Value

[Func<string, string, string>](#)

The get default error message.

See Also

[RegexValidator](#)

Class FalseAssertValidator

Namespace: [CloudyWing.FormValidators](#)

Assembly: CloudyWing.FormValidators.dll

The false assert validator.

```
public class FalseAssertValidator : IFormValidator
```

Inheritance

[object](#) ← FalseAssertValidator

Implements

[IFormValidator](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

FalseAssertValidator(bool, string)

Initializes a new instance of the [FalseAssertValidator](#) class.

```
public FalseAssertValidator(bool isFalse, string errorMessage)
```

Parameters

isFalse [bool](#)

if set to **true** [is false].

errorMessage [string](#)

The error message.

FalseAssertValidator(Func<bool>, string)

Initializes a new instance of the [FalseAssertValidator](#) class.

```
public FalseAssertValidator(Func<bool> falsePredicate, string errorMessage)
```

Parameters

falsePredicate [Func<bool>](#)

The false predicate.

errorMessage [string](#)

The error message.

Properties

ErrorMessage

Gets the error message.

```
public string ErrorMessage { get; }
```

Property Value

[string](#)

The error message.

IsValid

Returns true if ... is valid.

```
public bool IsValid { get; }
```

Property Value

[bool](#)

`true` if this instance is valid; otherwise, `false`.

Methods

Validate()

Validates this instance.

```
public bool Validate()
```

Returns

[bool](#)

The validation result.

Interface IFormValidator

Namespace: [CloudyWing.FormValidators](#)

Assembly: CloudyWing.FormValidators.dll

The form validator.

```
public interface IFormValidator
```

Properties

ErrorMessage

Gets the error message.

```
string ErrorMessage { get; }
```

Property Value

[string](#) ↗

The error message.

IsValid

Returns true if ... is valid.

```
bool IsValid { get; }
```

Property Value

[bool](#) ↗

true if this instance is valid; otherwise, **false**.

Methods

Validate()

Validates this instance.

```
bool Validate()
```

Returns

[bool](#)

The validation result.

Enum IPAddressTypes

Namespace: [CloudyWing.FormValidators](#)

Assembly: CloudyWing.FormValidators.dll

The IP address types.

```
[Flags]  
public enum IPAddressTypes
```

Fields

All = IPv4 | IPv6

All.

IPv4 = 1

IPv4.

IPv6 = 2

IPv6.

Class IPAddressValidator

Namespace: [CloudyWing.FormValidators](#)

Assembly: CloudyWing.FormValidators.dll

The IP address validator.

```
public sealed class IPAddressValidator : FormValidatorBase, IFormValidator
```

Inheritance

[object](#) ↗ ← [FormValidatorBase](#) ← IPAddressValidator

Implements

[IFormValidator](#)

Inherited Members

[FormValidatorBase.Column](#) , [FormValidatorBase.Value](#) , [FormValidatorBase.ErrorMessage](#) ,
[FormValidatorBase.IsValid](#) , [FormValidatorBase.Validate\(\)](#) , [object.Equals\(object\)](#) ↗ ,
[object.Equals\(object, object\)](#) ↗ , [object.GetHashCode\(\)](#) ↗ , [object.GetType\(\)](#) ↗ ,
[object.ReferenceEquals\(object, object\)](#) ↗ , [object.ToString\(\)](#) ↗

Constructors

IPAddressValidator(string, string, IPAddressTypes, Func<string, string, IPAddressTypes, string>)

Initializes a new instance of the [IPAddressValidator](#) class.

```
public IPAddressValidator(string column, string value, IPAddressTypes types, Func<string, string, IPAddressTypes, string> customErrorMessageAccessor = null)
```

Parameters

column [string](#) ↗

The column.

value [string](#) ↗

The value.

types [IPAddressTypes](#)

The types.

customErrorMessageAccessor [Func<string, string, IPAddressTypes, string>](#)

The custom error message accessor. The arguments are column, value, IP address types.

IPAddressValidator(string, string, Func<string, string, IPAddressTypes, string>)

Initializes a new instance of the [IPAddressValidator](#) class.

```
public IPAddressValidator(string column, string value, Func<string, string, IPAddressTypes, string> customErrorMessageAccessor = null)
```

Parameters

column [string](#)

The column.

value [string](#)

The value.

customErrorMessageAccessor [Func<string, string, IPAddressTypes, string>](#)

The custom error message accessor. The arguments are column, value, IP address types.

Properties

CustomErrorMessage

Gets the custom error message.

```
protected override string CustomErrorMessage { get; }
```

Property Value

[string](#)

The custom error message.

CustomErrorMessageAccessor

Gets or sets the custom error message accessor.

```
public Func<string, string, IPAddressTypes, string> CustomErrorMessageAccessor { get; }
```

Property Value

[Func](#)<[string](#), [string](#), [IPAddressTypes](#), [string](#)>

The custom error message accessor.

DefaultErrorMessage

Gets the default error message.

```
protected override string DefaultErrorMessage { get; }
```

Property Value

[string](#)

The default error message.

HasCustomErrorMessage

Gets a value indicating whether this instance has custom error message.

```
protected override bool HasCustomErrorMessage { get; }
```

Property Value

[bool](#)

`true` if this instance has custom error message; otherwise, `false`.

Types

Gets the types.

```
public IPAddressTypes Types { get; }
```

Property Value

[IPAddressTypes](#)

The types.

Methods

ValidateValue()

Validates the value.

```
protected override bool ValidateValue()
```

Returns

[bool](#)

The validation result.

Enum IdCardTypes

Namespace: [CloudyWing.FormValidators](#)

Assembly: CloudyWing.FormValidators.dll

The identity card type.

```
[Flags]  
public enum IdCardTypes
```

Fields

AlienResident = 4

Alien resident.

All = National | Resident | AlienResident | Homeless | NewResident

All.

Homeless = 8

Homeless.

National = 1

National.

NewResident = 16

New resident.

Resident = 2

Resident.

Class IdCardValidator

Namespace: [CloudyWing.FormValidators](#)

Assembly: CloudyWing.FormValidators.dll

The identity card validator.

```
public sealed class IdCardValidator : FormValidatorBase, IFormValidator
```

Inheritance

[object](#) ← [FormValidatorBase](#) ← IdCardValidator

Implements

[IFormValidator](#)

Inherited Members

[FormValidatorBase.Column](#) , [FormValidatorBase.Value](#) , [FormValidatorBase.ErrorMessage](#) ,
[FormValidatorBase.IsValid](#) , [FormValidatorBase.Validate\(\)](#) , [object.Equals\(object\)](#) ,
[object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

IdCardValidator(string, string, IdCardTypes, Func<string, string, IdCardTypes, string>)

Initializes a new instance of the [IdCardValidator](#) class.

```
public IdCardValidator(string column, string value, IdCardTypes idCardType =  
IdCardTypes.All, Func<string, string, IdCardTypes, string> customErrorMessageAccessor  
= null)
```

Parameters

column [string](#)

The column.

value [string](#)

The value.

idCardType [IdCardTypes](#)

Type of the identification card.

customErrorMessageAccessor [Func<string, string, IdCardTypes, string>](#)

The custom error message accessor. The arguments are column, value, identification card types.

Properties

CustomErrorMessage

Gets the custom error message.

```
protected override string CustomErrorMessage { get; }
```

Property Value

[string](#)

The custom error message.

CustomErrorMessageAccessor

Gets or sets the custom error message accessor.

```
public Func<string, string, IdCardTypes, string> CustomErrorMessageAccessor { get; }
```

Property Value

[Func<string, string, IdCardTypes, string>](#)

The custom error message accessor.

DefaultErrorMessage

Gets the default error message.

```
protected override string DefaultErrorMessage { get; }
```

Property Value

[string](#)

The default error message.

HasCustomErrorMessage

Gets a value indicating whether this instance has custom error message.

```
protected override bool HasCustomErrorMessage { get; }
```

Property Value

[bool](#)

true if this instance has custom error message; otherwise, **false**.

IdCardType

Gets the type of the identification card.

```
public IdCardTypes IdCardType { get; }
```

Property Value

[IdCardTypes](#)

The type of the identification card.

Methods

ValidateValue()

Validates the value.

```
protected override bool ValidateValue()
```

Returns

bool ↗

The validation result.

Class IntegerLessThanValidator

Namespace: [CloudyWing.FormValidators](#)

Assembly: CloudyWing.FormValidators.dll

Validate that an integer value is less than another column value.

```
public sealed class IntegerLessThanValidator : LessThanValidator<long>, IFormValidator
```

Inheritance

[object](#) ← [FormValidatorBase](#) ← [LessThanValidator<long](#) → ← [IntegerLessThanValidator](#)

Implements

[IFormValidator](#)

Inherited Members

[LessThanValidator<long>.ComparisonColumn](#) , [LessThanValidator<long>.ComparisonValue](#) ,
[LessThanValidator<long>.AllowedEqual](#) , [LessThanValidator<long>.CustomErrorMessageAccessor](#) ,
[FormValidatorBase.Column](#) , [FormValidatorBase.Value](#) , [FormValidatorBase.ErrorMessage](#) ,
[FormValidatorBase.IsValid](#) , [FormValidatorBase.Validate\(\)](#) , [object.Equals\(object\)](#) ,
[object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

`IntegerLessThanValidator(string, string, string, string, bool,
Func<string, string, string, string, bool, string>)`

Initializes a new instance of the [IntegerLessThanValidator](#) class.

```
public IntegerLessThanValidator(string column, string value, string comparisonColumn, string  
comparisonValue, bool allowedEqual = true, Func<string, string, string, string, bool,  
string> customErrorMessageAccessor = null)
```

Parameters

`column` [string](#)

The column.

value [string](#)

The value.

comparisonColumn [string](#)

The comparison column.

comparisonValue [string](#)

The comparison value.

allowedEqual [bool](#)

if set to `true` [allowed equal].

customErrorMessageAccessor [Func<string, string, string, string, bool, string>](#)

The custom error message accessor. The arguments are column, value, comparison column, comparison value, allowed equal.

Methods

TryParse(string, out long)

Tries the parse.

```
protected override bool TryParse(string value, out long result)
```

Parameters

value [string](#)

The value.

result [long](#)

The result.

Returns

bool ↗

Parse value to type **T** result.

Class IntegerValidator

Namespace: [CloudyWing.FormValidators](#)

Assembly: CloudyWing.FormValidators.dll

Validation constrains the integer format of a value.

```
public sealed class IntegerValidator : ComparableTypeValidator<long>, IFormValidator
```

Inheritance

[object](#) ← [FormValidatorBase](#) ← [ComparableTypeValidator<long](#) → ← [IntegerValidator](#)

Implements

[IFormValidator](#)

Inherited Members

[ComparableTypeValidator<long>.MinValue](#) , [ComparableTypeValidator<long>.MaxValue](#) ,
[ComparableTypeValidator<long>.CustomErrorMessageAccessor](#) , [FormValidatorBase.Column](#) ,
[FormValidatorBase.Value](#) , [FormValidatorBase.ErrorMessage](#) , [FormValidatorBase.IsValid](#) ,
[FormValidatorBase.Validate\(\)](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) ,
[object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

`IntegerValidator(string, string, bool, Func<string, string, long?, long?, string>)`

Initializes a new instance of the [IntegerValidator](#) class.

```
public IntegerValidator(string column, string value, bool allowedThousands = false,  
Func<string, string, long?, long?, string> customErrorMessageAccessor = null)
```

Parameters

`column` [string](#)

The column.

value [string](#)

The value.

allowedThousands [bool](#)

customErrorMessageAccessor [Func<string, string, long?, long?, string>](#)

The custom error message accessor. The arguments are column, value, min, max.

IntegerValidator(string, string, long?, long?, bool, Func<string, string, long?, long?, string>)

Initializes a new instance of the [IntegerValidator](#) class.

```
public IntegerValidator(string column, string value, long? min, long? max, bool  
allowedThousands = false, Func<string, string, long?, long?, string>  
customErrorMessageAccessor = null)
```

Parameters

column [string](#)

The column.

value [string](#)

The value.

min [long](#)?

The minimum.

max [long](#)?

The maximum.

allowedThousands [bool](#)

if set to **true** [allowed thousands].

customErrorMessageAccessor [Func<string, string, long?, long?, string>](#)

The custom error message accessor.

Properties

AllowedThousands

Gets a value indicating whether [allowed thousands].

```
public bool AllowedThousands { get; }
```

Property Value

[bool](#)

`true` if [allowed thousands]; otherwise, `false`.

CastErrorMessageAccessor

Gets the cast error message accessor.

```
protected override Func<string, string, string> CastErrorMessageAccessor { get; }
```

Property Value

[Func](#)<[string](#), [string](#), [string](#)>

The cast error message accessor.

Methods

TryParse(string, out long)

Tries the parse.

```
protected override bool TryParse(string value, out long result)
```

Parameters

`value` [string](#)

The value.

`result` [long](#)

The result.

Returns

[bool](#)

Parse value to type `T` result.

Enum MobilePhoneFormats

Namespace: [CloudyWing.FormValidators](#)

Assembly: CloudyWing.FormValidators.dll

The mobile phone formats.

```
[Flags]
public enum MobilePhoneFormats
```

Fields

All = AllowContainDashes | AllowWithoutDashes

All.

AllowContainDashes = 1

The allow contain dashes.

AllowWithoutDashes = 2

The allow without dashes.

Class MobilePhoneValidator

Namespace: [CloudyWing.FormValidators](#)

Assembly: CloudyWing.FormValidators.dll

The mobile phone validator.

```
public sealed class MobilePhoneValidator : FormValidatorBase, IFormValidator
```

Inheritance

[object](#) ← [FormValidatorBase](#) ← MobilePhoneValidator

Implements

[IFormValidator](#)

Inherited Members

[FormValidatorBase.Column](#) , [FormValidatorBase.Value](#) , [FormValidatorBase.ErrorMessage](#) ,
[FormValidatorBase.IsValid](#) , [FormValidatorBase.Validate\(\)](#) , [object.Equals\(object\)](#) ,
[object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

MobilePhoneValidator(string, string, MobilePhoneFormats, Func<string, string, MobilePhoneFormats, string>)

Initializes a new instance of the [MobilePhoneValidator](#) class.

```
public MobilePhoneValidator(string column, string value, MobilePhoneFormats formats,  
Func<string, string, MobilePhoneFormats, string> customErrorMessageAccessor = null)
```

Parameters

column [string](#)

The column.

value [string](#)

The value.

formats [MobilePhoneFormats](#)

The formats.

customErrorMessageAccessor [Func<string, string, MobilePhoneFormats, string>](#)

The custom error message accessor. The arguments are column, value, mobile phone formats.

MobilePhoneValidator(string, string, Func<string, string, MobilePhoneFormats, string>)

Initializes a new instance of the [MobilePhoneValidator](#) class.

```
public MobilePhoneValidator(string column, string value, Func<string, string, MobilePhoneFormats, string> customErrorMessageAccessor = null)
```

Parameters

column [string](#)

The column.

value [string](#)

The value.

customErrorMessageAccessor [Func<string, string, MobilePhoneFormats, string>](#)

The custom error message accessor. The arguments are column, value, mobile phone formats.

Properties

CustomErrorMessage

Gets the custom error message.

```
protected override string CustomErrorMessage { get; }
```

Property Value

[string](#)

The custom error message.

CustomErrorMessageAccessor

Gets or sets the custom error message accessor.

```
public Func<string, string, MobilePhoneFormats, string> CustomErrorMessageAccessor { get;  
set; }
```

Property Value

[Func](#)<[string](#), [string](#), [MobilePhoneFormats](#), [string](#)>

The custom error message accessor.

DefaultErrorMessage

Gets the default error message.

```
protected override string DefaultErrorMessage { get; }
```

Property Value

[string](#)

The default error message.

Formats

Gets or sets the formats.

```
public MobilePhoneFormats Formats { get; }
```

Property Value

[MobilePhoneFormats](#)

The formats.

HasCustomErrorMessage

Gets a value indicating whether this instance has custom error message.

```
protected override bool HasCustomErrorMessage { get; }
```

Property Value

[bool](#)

`true` if this instance has custom error message; otherwise, `false`.

Pattern

Gets the regex pattern.

```
public string Pattern { get; }
```

Property Value

[string](#)

The regex pattern.

Methods

ValidateValue()

Validates the value.

```
protected override bool ValidateValue()
```

Returns

[bool](#) ↗

The validation result.

Class NumberLessThanValidator

Namespace: [CloudyWing.FormValidators](#)

Assembly: CloudyWing.FormValidators.dll

Validate that a number value is less than another column value.

```
public sealed class NumberLessThanValidator : LessThanValidator<decimal>, IFormValidator
```

Inheritance

[object](#) ← [FormValidatorBase](#) ← [LessThanValidator<decimal>](#) ← [NumberLessThanValidator](#)

Implements

[IFormValidator](#)

Inherited Members

[LessThanValidator<decimal>.ComparisonColumn](#) , [LessThanValidator<decimal>.ComparisonValue](#) ,
[LessThanValidator<decimal>.AllowedEqual](#) ,
[LessThanValidator<decimal>.CustomErrorMessageAccessor](#) , [FormValidatorBase.Column](#) ,
[FormValidatorBase.Value](#) , [FormValidatorBase.ErrorMessage](#) , [FormValidatorBase.IsValid](#) ,
[FormValidatorBase.Validate\(\)](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) ,
[object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

`NumberLessThanValidator(string, string, string, string, bool, Func<string, string, string, string, bool, string>)`

Initializes a new instance of the [NumberLessThanValidator](#) class.

```
public NumberLessThanValidator(string column, string value, string comparisonColumn, string  
comparisonValue, bool allowedEqual = true, Func<string, string, string, string, bool,  
string> customErrorMessageAccessor = null)
```

Parameters

`column` [string](#)

The column.

value [string](#)

The value.

comparisonColumn [string](#)

The comparison column.

comparisonValue [string](#)

The comparison value.

allowedEqual [bool](#)

if set to `true` [allowed equal].

customErrorMessageAccessor [Func<string, string, string, string, bool, string>](#)

The custom error message accessor. The arguments are column, value, comparison column, comparison value, allowed equal.

Methods

TryParse(string, out decimal)

Tries the parse.

```
protected override bool TryParse(string value, out decimal result)
```

Parameters

value [string](#)

The value.

result [decimal](#)

The result.

Returns

bool ↗

Parse value to type **T** result.

Class NumberValidator

Namespace: [CloudyWing.FormValidators](#)

Assembly: CloudyWing.FormValidators.dll

Validation constrains the number format of a value.

```
public sealed class NumberValidator : ComparableTypeValidator<decimal>, IFormValidator
```

Inheritance

[object](#) ← [FormValidatorBase](#) ← [ComparableTypeValidator<decimal](#) > ← [NumberValidator](#)

Implements

[IFormValidator](#)

Inherited Members

[ComparableTypeValidator<decimal](#).MinValue , [ComparableTypeValidator<decimal](#).MaxValue ,
[ComparableTypeValidator<decimal](#).CustomErrorMessageAccessor , [FormValidatorBase.Column](#) ,
[FormValidatorBase.Value](#) , [FormValidatorBase.ErrorMessage](#) , [FormValidatorBase.IsValid](#) ,
[FormValidatorBase.Validate\(\)](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) ,
[object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

NumberValidator(string, string, bool, Func<string, string, decimal?, decimal?, string>)

Initializes a new instance of the [NumberValidator](#) class.

```
public NumberValidator(string column, string value, bool allowedThousands = false,  
Func<string, string, decimal?, decimal?, string> customErrorMessageAccessor = null)
```

Parameters

column [string](#)

The column.

value [string](#)

The value.

allowedThousands [bool](#)

if set to `true` [allowed thousands].

customErrorMessageAccessor [Func<string, string, decimal?, decimal?, string>](#)

The custom error message accessor. The arguments are column, value, min, max.

NumberValidator(string, string, decimal?, decimal?, bool, Func<string, string, decimal?, decimal?, string>)

Initializes a new instance of the [NumberValidator](#) class.

```
public NumberValidator(string column, string value, decimal? min, decimal? max, bool  
allowedThousands = false, Func<string, string, decimal?, decimal?, string>  
customErrorMessageAccessor = null)
```

Parameters

column [string](#)

The column.

value [string](#)

The value.

min [decimal](#)?

The minimum.

max [decimal](#)?

The maximum.

allowedThousands [bool](#)

if set to `true` [allowed thousands].

customErrorMessageAccessor [Func<string, string, decimal?, decimal?, string>](#)

The custom error message accessor.

Properties

AllowedThousands

Gets a value indicating whether [allowed thousands].

```
public bool AllowedThousands { get; }
```

Property Value

[bool](#)

`true` if [allowed thousands]; otherwise, `false`.

CastErrorMessageAccessor

Gets the cast error message accessor.

```
protected override Func<string, string, string> CastErrorMessageAccessor { get; }
```

Property Value

[Func](#)<[string](#), [string](#), [string](#)>

The cast error message accessor.

Methods

TryParse(string, out decimal)

Tries the parse.

```
protected override bool TryParse(string value, out decimal result)
```

Parameters

value [string](#)

The value.

result [decimal](#)

The result.

Returns

[bool](#)

Parse value to type **T** result.

Class RegexValidator

Namespace: [CloudyWing.FormValidators](#)

Assembly: CloudyWing.FormValidators.dll

The regex validator.

```
public class RegexValidator : BasicFormValidator, IFormValidator
```

Inheritance

[object](#) ↗ ← [FormValidatorBase](#) ← [BasicFormValidator](#) ← [RegexValidator](#)

Implements

[IFormValidator](#)

Derived

[EmailValidator](#)

Inherited Members

[BasicFormValidator.CustomErrorMessageAccessor](#) , [BasicFormValidator.DefaultErrorMessage](#) ,
[BasicFormValidator.CustomErrorMessage](#) , [BasicFormValidator.HasCustomErrorMessage](#) ,
[FormValidatorBase.Column](#) , [FormValidatorBase.Value](#) , [FormValidatorBase.ErrorMessage](#) ,
[FormValidatorBase.IsValid](#) , [FormValidatorBase.Validate\(\)](#) , [FormValidatorBase.CreateErrorMessage\(\)](#) ,
[object.Equals\(object\)](#) ↗ , [object.Equals\(object, object\)](#) ↗ , [object.GetHashCode\(\)](#) ↗ , [object.GetType\(\)](#) ↗ ,
[object.MemberwiseClone\(\)](#) ↗ , [object.ReferenceEquals\(object, object\)](#) ↗ , [object.ToString\(\)](#) ↗

Constructors

RegexValidator(string, string, string, Func<string, string, string>)

Initializes a new instance of the [RegexValidator](#) class.

```
public RegexValidator(string column, string value, string pattern, Func<string, string, string> customErrorMessageAccessor = null)
```

Parameters

column [string](#) ↗

The column.

value [string](#)

The value.

pattern [string](#)

The pattern.

customErrorMessageAccessor [Func<string, string, string>](#)

The custom error message accessor. The arguments are column, value.

Exceptions

[ArgumentNullException](#)

pattern

RegexValidator(string, string, Regex, Func<string, string, string>)

Initializes a new instance of the [RegexValidator](#) class.

```
public RegexValidator(string column, string value, Regex regex, Func<string, string, string>
customErrorMessageAccessor = null)
```

Parameters

column [string](#)

The column.

value [string](#)

The value.

regex [Regex](#)

The regex.

customErrorMessageAccessor [Func<string, string, string>](#)

The custom error message accessor. The arguments are column, value.

Exceptions

[ArgumentNullException](#)

regex

Properties

DefaultErrorMessageAccessor

Gets the get default error message.

```
protected override Func<string, string, string> DefaultErrorMessageAccessor { get; }
```

Property Value

[Func](#)<[string](#), [string](#), [string](#)>

The get default error message.

Pattern

Gets the pattern.

```
public string Pattern { get; protected set; }
```

Property Value

[string](#)

The pattern.

RegexInstance

Gets or sets the regex instance.

```
protected Regex RegexInstance { get; set; }
```

Property Value

[Regex](#)

The regex instance.

Methods

ValidateValue()

Validates the value.

```
protected override bool ValidateValue()
```

Returns

[bool](#)

The validation result.

Class RequiredValidator

Namespace: [CloudyWing.FormValidators](#)

Assembly: CloudyWing.FormValidators.dll

Validation indicate that a value is required.

```
public sealed class RequiredValidator : BasicFormValidator, IFormValidator
```

Inheritance

[object](#) ← [FormValidatorBase](#) ← [BasicFormValidator](#) ← RequiredValidator

Implements

[IFormValidator](#)

Inherited Members

[BasicFormValidator.CustomErrorMessageAccessor](#) , [FormValidatorBase.Column](#) ,
[FormValidatorBase.Value](#) , [FormValidatorBase.ErrorMessage](#) , [FormValidatorBase.IsValid](#) ,
[FormValidatorBase.Validate\(\)](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) ,
[object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

RequiredValidator(string, string, Func<string, string, string>)

Initializes a new instance of the [RequiredValidator](#) class.

```
public RequiredValidator(string column, string value, Func<string, string, string>
customErrorMessageAccessor = null)
```

Parameters

column [string](#)

The column.

value [string](#)

The value.

`customErrorMessageAccessor` [Func<string, string, string>](#)

The custom error message accessor. The arguments are column, value.

Properties

DefaultErrorMessageAccessor

Gets the get default error message.

```
protected override Func<string, string, string> DefaultErrorMessageAccessor { get; }
```

Property Value

[Func<string, string, string>](#)

The get default error message.

Methods

ValidateValue()

Validates the value.

```
protected override bool ValidateValue()
```

Returns

[bool](#)

The validation result.

Class TrueAssertValidator

Namespace: [CloudyWing.FormValidators](#)

Assembly: CloudyWing.FormValidators.dll

The true assert validator.

```
public class TrueAssertValidator : IFormValidator
```

Inheritance

[object](#) ← TrueAssertValidator

Implements

[IFormValidator](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

TrueAssertValidator(bool, string)

Initializes a new instance of the [TrueAssertValidator](#) class.

```
public TrueAssertValidator(bool isTrue, string errorMessage)
```

Parameters

isTrue [bool](#)

if set to **true** [is true].

errorMessage [string](#)

The error message.

TrueAssertValidator(Func<bool>, string)

Initializes a new instance of the [TrueAssertValidator](#) class.

```
public TrueAssertValidator(Func<bool> truePredicate, string errorMessage)
```

Parameters

truePredicate [Func](#)<bool>

The true predicate.

errorMessage [string](#)

The error message.

Properties

ErrorMessage

Gets the error message.

```
public string ErrorMessage { get; }
```

Property Value

[string](#)

The error message.

IsValid

Returns true if ... is valid.

```
public bool IsValid { get; }
```

Property Value

[bool](#)

`true` if this instance is valid; otherwise, `false`.

Methods

Validate()

Validates this instance.

```
public bool Validate()
```

Returns

[bool](#)

The validation result.

Class UrlValidator

Namespace: [CloudyWing.FormValidators](#)

Assembly: CloudyWing.FormValidators.dll

The URL validator.

```
public sealed class UrlValidator : BasicFormValidator, IFormValidator
```

Inheritance

[object](#) ↗ ← [FormValidatorBase](#) ← [BasicFormValidator](#) ← [UrlValidator](#)

Implements

[IFormValidator](#)

Inherited Members

[BasicFormValidator.CustomErrorMessageAccessor](#) , [FormValidatorBase.Column](#) ,
[FormValidatorBase.Value](#) , [FormValidatorBase.ErrorMessage](#) , [FormValidatorBase.IsValid](#) ,
[FormValidatorBase.Validate\(\)](#) , [object.Equals\(object\)](#) ↗ , [object.Equals\(object, object\)](#) ↗ ,
[object.GetHashCode\(\)](#) ↗ , [object.GetType\(\)](#) ↗ , [object.ReferenceEquals\(object, object\)](#) ↗ ,
[object.ToString\(\)](#) ↗

Constructors

UrlValidator(string, string, Func<string, string, string>)

Initializes a new instance of the [UrlValidator](#) class.

```
public UrlValidator(string column, string value, Func<string, string, string>
customErrorMessageAccessor = null)
```

Parameters

column [string](#) ↗

The column.

value [string](#) ↗

The value.

`customErrorMessageAccessor` `Func<string, string, string>`

The custom error message accessor. The arguments are column, value.

UrlValidator(string, string, UriKind, Func<string, string, string>)

Initializes a new instance of the [UrlValidator](#) class.

```
public UrlValidator(string column, string value, UriKind kind, Func<string, string, string>
customErrorMessageAccessor = null)
```

Parameters

`column` `string`

The column.

`value` `string`

The value.

`kind` `UriKind`

The kind.

`customErrorMessageAccessor` `Func<string, string, string>`

The custom error message accessor. The arguments are column, value.

Properties

DefaultErrorMessageAccessor

Gets the get default error message.

```
protected override Func<string, string, string> DefaultErrorMessageAccessor { get; }
```

Property Value

[Func](#)<[string](#), [string](#), [string](#)>

The get default error message.

Kind

Gets the kind.

```
public UriKind Kind { get; }
```

Property Value

[UriKind](#)

The kind.

Methods

ValidateValue()

Validates the value.

```
protected override bool ValidateValue()
```

Returns

[bool](#)

The validation result.

Class ValueLengthValidator

Namespace: [CloudyWing.FormValidators](#)

Assembly: CloudyWing.FormValidators.dll

Validation constraints a value does not exceed the length range.

```
public sealed class ValueLengthValidator : FormValidatorBase, IFormValidator
```

Inheritance

[object](#) ↗ ← [FormValidatorBase](#) ← ValueLengthValidator

Implements

[IFormValidator](#)

Inherited Members

[FormValidatorBase.Column](#) , [FormValidatorBase.Value](#) , [FormValidatorBase.ErrorMessage](#) ,
[FormValidatorBase.IsValid](#) , [FormValidatorBase.Validate\(\)](#) , [object.Equals\(object\)](#) ↗ ,
[object.Equals\(object, object\)](#) ↗ , [object.GetHashCode\(\)](#) ↗ , [object.GetType\(\)](#) ↗ ,
[object.ReferenceEquals\(object, object\)](#) ↗ , [object.ToString\(\)](#) ↗

Constructors

ValueLengthValidator(string, string, long, Func<string, string, long, long, string>)

Initializes a new instance of the [ValueLengthValidator](#) class.

```
public ValueLengthValidator(string column, string value, long max, Func<string, string, long, long, string> customErrorMessageAccessor = null)
```

Parameters

column [string](#) ↗

The column.

value [string](#) ↗

The value.

`max` [long](#)

The maximum.

`customErrorMessageAccessor` [Func<string, string, long, long, string>](#)

The custom error message accessor. The arguments are column, value, min, max.

`ValueLengthValidator(string, string, long, long, Func<string, string, long, long, string>)`

Initializes a new instance of the [ValueLengthValidator](#) class.

```
public ValueLengthValidator(string column, string value, long min, long max, Func<string, string, long, long, string> customErrorMessageAccessor = null)
```

Parameters

`column` [string](#)

The column.

`value` [string](#)

The value.

`min` [long](#)

The minimum. Less than or equal to 0 means unlimited.

`max` [long](#)

The maximum. Less than or equal to 0 means unlimited.

`customErrorMessageAccessor` [Func<string, string, long, long, string>](#)

The custom error message accessor. The arguments are column, value, min, max.

Properties

CustomErrorMessage

Gets the custom error message.

```
protected override string CustomErrorMessage { get; }
```

Property Value

[string](#)

The custom error message.

CustomErrorMessageAccessor

Gets the custom range message format.

```
public Func<string, string, long, long, string> CustomErrorMessageAccessor { get; set; }
```

Property Value

[Func](#)<[string](#), [string](#), [long](#), [long](#), [string](#)>

The custom range message format.

DefaultErrorMessage

Gets the default error message.

```
protected override string DefaultErrorMessage { get; }
```

Property Value

[string](#)

The default error message.

HasCustomErrorMessage

Gets a value indicating whether this instance has custom error message.

```
protected override bool HasCustomErrorMessage { get; }
```

Property Value

[bool](#)

`true` if this instance has custom error message; otherwise, `false`.

MaxLength

Gets the maximum length.

```
public long MaxLength { get; }
```

Property Value

[long](#)

The maximum length.

MinLength

Gets the minimum length.

```
public long MinLength { get; }
```

Property Value

[long](#)

The minimum length.

Methods

ValidateValue()

Validates the value.

```
protected override bool ValidateValue()
```

Returns

[bool](#)

The validation result.

See Also

[FormValidatorBase](#)

Namespace CloudyWing.FormValidators.Core Classes

[BasicFormValidator](#)

The basic form validator abstract class.

[ComparableTypeValidator<T>](#)

The comparable type validator abstract class.

[ErrorMessageProvider](#)

The error message provider.

[FormValidatorBase](#)

The form validator base abstract class.

[LessThanValidator<T>](#)

The less than other column value validator abstract class.

[ValidationProvider](#)

The validation provider.

[ValidatorConfiguration](#)

The validator configuration.

Class BasicFormValidator

Namespace: [CloudyWing.FormValidators.Core](#)

Assembly: CloudyWing.FormValidators.dll

The basic form validator abstract class.

```
public abstract class BasicFormValidator : FormValidatorBase, IFormValidator
```

Inheritance

[object](#) ← [FormValidatorBase](#) ← BasicFormValidator

Implements

[IFormValidator](#)

Derived

[CreditCardValidator](#), [RegexValidator](#), [RequiredValidator](#), [UrlValidator](#)

Inherited Members

[FormValidatorBase.Column](#), [FormValidatorBase.Value](#), [FormValidatorBase.ErrorMessage](#),
[FormValidatorBase.IsValid](#), [FormValidatorBase.Validate\(\)](#), [FormValidatorBase.ValidateValue\(\)](#),
[FormValidatorBase.CreateErrorMessage\(\)](#), [object.Equals\(object\)](#), [object.Equals\(object, object\)](#),
[object.GetHashCode\(\)](#), [object.GetType\(\)](#), [object.MemberwiseClone\(\)](#),
[object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

Constructors

BasicFormValidator(string, string, Func<string, string, string>)

Initializes a new instance of the [FormValidatorBase](#) class.

```
public BasicFormValidator(string column, string value, Func<string, string, string>
    string> customErrorMessageAccessor)
```

Parameters

column [string](#)

The column.

value [string](#)

The value.

customErrorMessageAccessor [Func](#)<[string](#), [string](#), [string](#)>

The custom error message accessor. The arguments are column, value.

Properties

CustomErrorMessage

Gets the custom error message.

```
protected override string CustomErrorMessage { get; }
```

Property Value

[string](#)

The custom error message.

CustomErrorMessageAccessor

Gets or sets the custom error message accessor.

```
public Func<string, string, string> CustomErrorMessageAccessor { get; }
```

Property Value

[Func](#)<[string](#), [string](#), [string](#)>

The custom error message accessor.

DefaultErrorMessage

Gets the default error message.

```
protected override string DefaultErrorMessage { get; }
```

Property Value

[string](#)

The default error message.

DefaultErrorMessageAccessor

Gets the get default error message.

```
protected abstract Func<string, string, string> DefaultErrorMessageAccessor { get; }
```

Property Value

[Func](#)<[string](#), [string](#), [string](#)>

The get default error message.

HasCustomErrorMessage

Gets a value indicating whether this instance has custom error message.

```
protected override bool HasCustomErrorMessage { get; }
```

Property Value

[bool](#)

true if this instance has custom error message; otherwise, **false**.

See Also

[FormValidatorBase](#)

Class ComparableTypeValidator<T>

Namespace: [CloudyWing.FormValidators.Core](#)

Assembly: CloudyWing.FormValidators.dll

The comparable type validator abstract class.

```
public abstract class ComparableTypeValidator<T> : FormValidatorBase, IFormValidator where T : struct, IConvertible, IComparable<T>, IEquatable<T>
```

Type Parameters

T

The compare value type.

Inheritance

[object](#) ↗ ← [FormValidatorBase](#) ← ComparableTypeValidator<T>

Implements

[IFormValidator](#)

Derived

[DateTimeValidator](#), [IntegerValidator](#), [NumberValidator](#)

Inherited Members

[FormValidatorBase.Column](#), [FormValidatorBase.Value](#), [FormValidatorBase.ErrorMessage](#),
[FormValidatorBase.IsValid](#), [FormValidatorBase.Validate\(\)](#), [FormValidatorBase.CreateErrorMessage\(\)](#),
[object.Equals\(object\)](#) ↗, [object.Equals\(object, object\)](#) ↗, [object.GetHashCode\(\)](#) ↗, [object.GetType\(\)](#) ↗,
[object.MemberwiseClone\(\)](#) ↗, [object.ReferenceEquals\(object, object\)](#) ↗, [object.ToString\(\)](#) ↗

Constructors

ComparableTypeValidator(string, string, T?, T?, Func<string, string, T?, T?, string>)

Initializes a new instance of the [ComparableTypeValidator<T>](#) class.

```
protected ComparableTypeValidator(string column, string value, T? min, T? max, Func<string, string, T?, T?, string> customErrorMessageAccessor)
```

Parameters

column [string](#)

The column.

value [string](#)

The value.

min T?

The minimum.

max T?

The maximum.

customErrorMessageAccessor [Func<string, string, T?, T?, string>](#)

The custom error message accessor. The arguments are column, value, min, max.

Properties

CastErrorMessageAccessor

Gets the cast error message accessor.

```
protected abstract Func<string, string, string> CastErrorMessageAccessor { get; }
```

Property Value

[Func<string, string, string>](#)

The cast error message accessor.

CustomErrorMessage

Gets the custom error message.

```
protected override string CustomErrorMessage { get; }
```

Property Value

[string](#)

The custom error message.

CustomErrorMessageAccessor

Gets the custom range message format.

```
public Func<string, string, T?, T?, string> CustomErrorMessageAccessor { get; }
```

Property Value

[Func](#)<[string](#), [string](#), T?, T?, [string](#)>

The custom range message format.

DefaultErrorMessage

Gets the default error message.

```
protected override string DefaultErrorMessage { get; }
```

Property Value

[string](#)

The default error message.

HasCustomErrorMessage

Gets a value indicating whether this instance has custom error message.

```
protected override bool HasCustomErrorMessage { get; }
```

Property Value

[bool ↗](#)

`true` if this instance has custom error message; otherwise, `false`.

MaxValue

Gets the maximum value.

```
public T? MaxValue { get; }
```

Property Value

T?

The maximum value.

MinValue

Gets the minimum value.

```
public T? MinValue { get; }
```

Property Value

T?

The minimum value.

Methods

TryParse(string, out T)

Tries the parse.

```
protected abstract bool TryParse(string value, out T result)
```

Parameters

value [string](#)

The value.

result [T](#)

The result.

Returns

[bool](#)

Parse value to type [T](#) result.

ValidateValue()

Validates the value.

```
protected override bool ValidateValue()
```

Returns

[bool](#)

The validation result.

See Also

[FormValidatorBase](#)

Class ErrorMessageProvider

Namespace: [CloudyWing.FormValidators.Core](#)

Assembly: CloudyWing.FormValidators.dll

The error message provider.

```
public static class ErrorMessageProvider
```

Inheritance

[object](#) ← ErrorMessageProvider

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Properties

ValueCompareAnotherColumnValueAccessor

Gets the value compare another column value accessor.

```
public static Func<string, string, string, string, string>
ValueCompareAnotherColumnValueAccessor { get; }
```

Property Value

[Func](#)<[string](#), [string](#), [string](#), [string](#), [string](#)>

The value compare another column value accessor. The arguments are column, value, comparison column, comparison value.

ValueGreaterOrEqualAccessor

Gets the value greater or equal accessor.

```
public static Func<string, string, object, string> ValueGreaterOrEqualAccessor { get; }
```

Property Value

[Func<string, string, object, string>](#)

The value greater or equal accessor. The arguments are column, value, min, max.

ValueInRangeAccessor

Gets the value in range accessor.

```
public static Func<string, string, object, object, string> ValueInRangeAccessor { get; }
```

Property Value

[Func<string, string, object, object, string>](#)

The value in range accessor. The arguments are column, value, min, max.

ValueIsCreditCardAccessor

Gets the value is credit card accessor.

```
public static Func<string, string, string> ValueIsCreditCardAccessor { get; }
```

Property Value

[Func<string, string, string>](#)

The value is credit card accessor. The arguments are column, value.

ValueIsDateTimeAccessor

Gets the value is date time accessor.

```
public static Func<string, string, string> ValueIsDateTimeAccessor { get; }
```

Property Value

[Func<string, string, string>](#)

The value is date time accessor. The arguments are column, value.

ValueIsEmailAccessor

Gets the value is email accessor.

```
public static Func<string, string, string> ValueIsEmailAccessor { get; }
```

Property Value

[Func<string, string, string>](#)

The value is email accessor. The arguments are column, value.

ValueIsIPAddressAccessor

Gets the value is IP address accessor.

```
public static Func<string, string, IPAddressTypes, string> ValueIsIPAddressAccessor { get; }
```

Property Value

[Func<string, string, IPAddressTypes, string>](#)

The value is IP address accessor. The arguments are column, value, IP address types.

ValueIsIdCardAccessor

Gets the value is identification card accessor.

```
public static Func<string, string, IdCardTypes, string> ValueIsIdCardAccessor { get; }
```

Property Value

[Func<string, string, IdCardTypes, string>](#)

The value is identification card accessor. The arguments are column, value, identification card types.

ValueIsIntegerAccessor

Gets the value is integer accessor.

```
public static Func<string, string, string> ValueIsIntegerAccessor { get; }
```

Property Value

[Func<string, string, string>](#)

The value is integer accessor. The arguments are column, value.

ValueIsMobilePhoneAccessor

Gets the value is mobile phone accessor.

```
public static Func<string, string, MobilePhoneFormats, string> ValueIsMobilePhoneAccessor {  
    get; }
```

Property Value

[Func<string, string, MobilePhoneFormats, string>](#)

The value is mobile phone accessor. The arguments are column, value, mobile phone formats.

ValueIsNumberAccessor

Gets the value is number accessor.

```
public static Func<string, string, string> ValueIsNumberAccessor { get; }
```

Property Value

[Func<string, string, string>](#)

The value is number accessor. The arguments are column, value.

ValueIsRequiredAccessor

Gets the value is required accessor.

```
public static Func<string, string, string> ValueIsRequiredAccessor { get; }
```

Property Value

[Func<string, string, string>](#)

The value is required accessor. The arguments are column, value.

ValueIsUrlAccessor

Gets the value is URL accessor.

```
public static Func<string, string, string> ValueIsUrlAccessor { get; }
```

Property Value

[Func<string, string, string>](#)

The value is URL accessor. The arguments are column, value.

ValueLengthGreaterOrEqualAccessor

Gets the value length greater or equal accessor.

```
public static Func<string, string, long, string> ValueLengthGreaterOrEqualAccessor { get; }
```

Property Value

[Func<string, string, long, string>](#)

The value length greater or equal accessor. The arguments are column, value, min.

ValueLengthInRangeAccessor

Gets the value length in range accessor.

```
public static Func<string, string, long, long, string> ValueLengthInRangeAccessor { get; }
```

Property Value

[Func<string, string, long, long, string>](#)

The value length in range accessor. The arguments are column, value, min, max.

ValueLengthLessOrEqualAccessor

Gets the value length less or equal accessor.

```
public static Func<string, string, long, string> ValueLengthLessOrEqualAccessor { get; }
```

Property Value

[Func<string, string, long, string>](#)

The value length less or equal accessor. The arguments are column, value, max.

ValueLessOrEqualAccessor

Gets the value less or equal accessor.

```
public static Func<string, string, object, string> ValueLessOrEqualAccessor { get; }
```

Property Value

[Func<string, string, object, string>](#)

The value less or equal accessor. The arguments are column, value, max.

ValueLessThanAnotherColumnValueAccessor

Gets the value less than another column value accessor.

```
public static Func<string, string, string, string, bool, string>
ValueLessThanAnotherColumnValueAccessor { get; }
```

Property Value

[Func<string, string, string, string, bool, string>](#)

The value less than another column value accessor. The arguments are column, value, comparison column, comparison value, allowed equal.

ValueMatchRegexAccessor

Gets the value match regex accessor.

```
public static Func<string, string, string> ValueMatchRegexAccessor { get; }
```

Property Value

[Func<string, string, string>](#)

The value match regex accessor. The arguments are column, value.

Methods

SetValueCompareAnotherColumnValueAccessor(Func<string, string, string, string, string>)

Sets the value compare another column value accessor.

```
public static void SetValueCompareAnotherColumnValueAccessor(Func<string, string, string, string, string> accessor)
```

Parameters

accessor [Func<string, string, string, string, string>](#)

The accessor. The arguments are column, value, comparison column, comparison value.

Exceptions

[ArgumentNullException](#)

accessor

SetValueGreaterOrEqualAccessor(Func<string, string, object, string>)

Sets the value greater or equal accessor.

```
public static void SetValueGreaterOrEqualAccessor(Func<string, string, object, string> accessor)
```

Parameters

accessor [Func<string, string, object, string>](#)

The accessor. The arguments are column, value, min.

Exceptions

[ArgumentNullException](#)

accessor

SetValueInRangeAccessor(Func<string, string, object, object, string>)

Sets the value in range accessor.

```
public static void SetValueInRangeAccessor(Func<string, string, object, object, string> accessor)
```

Parameters

accessor [Func<string, string, object, object, string>](#)

The accessor. The arguments are column, value, min, max.

Exceptions

[ArgumentNullException](#)

accessor

SetValueIsCreditCardAccessor(Func<string, string, string>)

Sets the value is credit card accessor.

```
public static void SetValueIsCreditCardAccessor(Func<string, string, string> accessor)
```

Parameters

accessor [Func](#)<[string](#), [string](#), [string](#)>

The accessor. The arguments are column, value.

Exceptions

[ArgumentNullException](#)

accessor

SetValueIsDateTimeAccessor(Func<string, string, string>)

Sets the value is date time accessor.

```
public static void SetValueIsDateTimeAccessor(Func<string, string, string> accessor)
```

Parameters

accessor [Func](#)<[string](#), [string](#), [string](#)>

The accessor. The arguments are column, value.

Exceptions

[ArgumentNullException](#)

accessor

SetValueIsEmailAccessor(Func<string, string, string>)

Sets the value is email accessor.

```
public static void SetValueIsEmailAccessor(Func<string, string, string> accessor)
```

Parameters

accessor [Func](#)<string, string, string>

The accessor. The arguments are column, value.

Exceptions

[ArgumentNullException](#)

accessor

SetValueIsIPAddressAccessor(Func<string, string, IPAddressTypes, string>)

Sets the value is IP address accessor.

```
public static void SetValueIsIPAddressAccessor(Func<string, string, IPAddressTypes, string> accessor)
```

Parameters

accessor [Func](#)<string, string, IPAddressTypes, string>

The accessor. The arguments are column, value, IP address types.

Exceptions

[ArgumentNullException](#)

accessor

SetValueIsIdCardAccessor(Func<string, string, IdCardTypes, string>)

Sets the value is identification card accessor.

```
public static void SetValueIsIdCardAccessor(Func<string, string, IdCardTypes, string> accessor)
```

Parameters

accessor [Func<string, string, IdCardTypes, string>](#)

The accessor. The arguments are column, value, identification card types.

Exceptions

[ArgumentNullException](#)

accessor

SetValueIsIntegerAccessor(Func<string, string, string>)

Sets the value is integer accessor.

```
public static void SetValueIsIntegerAccessor(Func<string, string, string> accessor)
```

Parameters

accessor [Func<string, string, string>](#)

The accessor. The arguments are column, value.

Exceptions

[ArgumentNullException](#)

accessor

SetValueIsMobilePhoneAccessor(Func<string, string, MobilePhoneFormats, string>)

Sets the value is mobile phone accessor.

```
public static void SetValueIsMobilePhoneAccessor(Func<string, string, MobilePhoneFormats, string> accessor)
```

Parameters

accessor [Func<string, string, MobilePhoneFormats, string>](#)

The accessor. The arguments are column, value, mobile phone formats.

Exceptions

[ArgumentNullException](#)

accessor

SetValueIsNumberAccessor(Func<string, string, string>)

Sets the value is number accessor.

```
public static void SetValueIsNumberAccessor(Func<string, string, string> accessor)
```

Parameters

accessor [Func<string, string, string>](#)

The accessor. The arguments are column, value.

Exceptions

[ArgumentNullException](#)

accessor

SetValueIsRequiredAccessor(Func<string, string, string>)

Sets the value is required accessor.

```
public static void SetValueIsRequiredAccessor(Func<string, string, string> accessor)
```

Parameters

accessor [Func<string, string, string>](#)

The accessor. The arguments are column, value.

Exceptions

[ArgumentNullException](#)

accessor

SetValueIsUrlAccessor(Func<string, string, string>)

Sets the value is URL accessor.

```
public static void SetValueIsUrlAccessor(Func<string, string, string> accessor)
```

Parameters

accessor [Func<string, string, string>](#)

The accessor. The arguments are column, value.

Exceptions

[ArgumentNullException](#)

accessor

SetValueLengthGreaterOrEqualAccessor(Func<string, string, long, string>)

Sets the value length greater or equal accessor.

```
public static void SetValueLengthGreaterOrEqualAccessor(Func<string, string, long, string> accessor)
```

Parameters

accessor [Func<string, string, long, string>](#)

The accessor. The arguments are column, value, min.

Exceptions

[ArgumentNullException](#)

accessor

SetValueLengthInRangeAccessor(Func<string, string, long, long, string>)

Sets the value length in range accessor.

```
public static void SetValueLengthInRangeAccessor(Func<string, string, long, long, string> accessor)
```

Parameters

accessor [Func<string, string, long, long, string>](#)

The accessor. The arguments are column, value, min, max.

Exceptions

[ArgumentNullException](#)

accessor

SetValueLengthLessOrEqualAccessor(Func<string, string, long, string>)

Sets the value length less or equal accessor.

```
public static void SetValueLengthLessOrEqualAccessor(Func<string, string, long, string> accessor)
```

Parameters

accessor [Func<string, string, long, string>](#)

The accessor. The arguments are column, value, max.

Exceptions

[ArgumentNullException](#)

accessor

SetValueLessOrEqualAccessor(Func<string, string, object, string>)

Sets the value less or equal accessor.

```
public static void SetValueLessOrEqualAccessor(Func<string, string, object, string> accessor)
```

Parameters

accessor [Func<string, string, object, string>](#)

The accessor. The arguments are column, value, max.

Exceptions

[ArgumentNullException](#)

accessor

SetValueLessThanAnotherColumnValueAccessor(Func<string, string, string, bool, string>)

Sets the value less than another column value accessor.

```
public static void SetValueLessThanAnotherColumnValueAccessor(Func<string, string, string, bool, string> accessor)
```

Parameters

accessor [Func<string, string, string, string, bool, string>](#)

The accessor. The arguments are column, value, comparison column, comparison value, allowed equal.

Exceptions

[ArgumentNullException](#)

accessor

SetValueMatchRegexAccessor(Func<string, string, string>)

Sets the value match regex accessor.

```
public static void SetValueMatchRegexAccessor(Func<string, string> accessor)
```

Parameters

accessor [Func<string, string>](#)

The accessor. The arguments are column, value.

Exceptions

[ArgumentNullException](#)

accessor

Class FormValidatorBase

Namespace: [CloudyWing.FormValidators.Core](#)

Assembly: CloudyWing.FormValidators.dll

The form validator base abstract class.

```
public abstract class FormValidatorBase : IFormValidator
```

Inheritance

[object](#) ← FormValidatorBase

Implements

[IFormValidator](#)

Derived

[CompareValidator](#), [BasicFormValidator](#), [ComparableTypeValidator<T>](#), [LessThanValidator<T>](#),
[IPAddressValidator](#), [IdCardValidator](#), [MobilePhoneValidator](#), [ValueLengthValidator](#)

Inherited Members

[object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.GetType\(\)](#),
[object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

Constructors

FormValidatorBase(string, string)

Initializes a new instance of the [FormValidatorBase](#) class.

```
public FormValidatorBase(string column, string value)
```

Parameters

column [string](#)

The column.

value [string](#)

The value.

Properties

Column

Gets or sets the column.

```
public string Column { get; }
```

Property Value

[string](#)

The column.

CustomErrorMessage

Gets the custom error message.

```
protected abstract string CustomErrorMessage { get; }
```

Property Value

[string](#)

The custom error message.

DefaultErrorMessage

Gets the default error message.

```
protected abstract string DefaultErrorMessage { get; }
```

Property Value

[string](#)

The default error message.

ErrorMessage

Gets the error message.

```
public string ErrorMessage { get; }
```

Property Value

[string](#)

The error message.

HasCustomErrorMessage

Gets a value indicating whether this instance has custom error message.

```
protected abstract bool HasCustomErrorMessage { get; }
```

Property Value

[bool](#)

`true` if this instance has custom error message; otherwise, `false`.

IsValid

Returns true if ... is valid.

```
public bool IsValid { get; }
```

Property Value

[bool](#)

`true` if this instance is valid; otherwise, `false`.

Value

Gets or sets the value.

```
public string Value { get; }
```

Property Value

[string](#)

The value.

Methods

CreateErrorMessage()

Creates the error message.

```
protected virtual string CreateErrorMessage()
```

Returns

[string](#)

The error message.

Validate()

Validates this instance.

```
public bool Validate()
```

Returns

[bool](#)

The validation result.

ValidateValue()

Validates the value.

```
protected abstract bool ValidateValue()
```

Returns

[bool](#)

The validation result.

See Also

[IFormValidator](#)

Class LessThanValidator<T>

Namespace: [CloudyWing.FormValidators.Core](#)

Assembly: CloudyWing.FormValidators.dll

The less than other column value validator abstract class.

```
public abstract class LessThanValidator<T> : FormValidatorBase, IFormValidator where T : struct, IConvertible, IComparable<T>, IEquatable<T>
```

Type Parameters

T

The value type.

Inheritance

[object](#) ↗ ← [FormValidatorBase](#) ← LessThanValidator<T>

Implements

[IFormValidator](#)

Derived

[DateTimeLessThanValidator](#), [IntegerLessThanValidator](#), [NumberLessThanValidator](#)

Inherited Members

[FormValidatorBase.Column](#), [FormValidatorBase.Value](#), [FormValidatorBase.ErrorMessage](#),
[FormValidatorBase.IsValid](#), [FormValidatorBase.Validate\(\)](#), [FormValidatorBase.CreateErrorMessage\(\)](#),
[object.Equals\(object\)](#) ↗, [object.Equals\(object, object\)](#) ↗, [object.GetHashCode\(\)](#) ↗, [object.GetType\(\)](#) ↗,
[object.MemberwiseClone\(\)](#) ↗, [object.ReferenceEquals\(object, object\)](#) ↗, [object.ToString\(\)](#) ↗

Constructors

`LessThanValidator(string, string, string, string, bool, Func<string, string, string, string, bool, string>)`

Initializes a new instance of the [LessThanValidator<T>](#) class.

```
protected LessThanValidator(string column, string value, string comparisonColumn, string comparisonValue, bool allowedEqual = true, Func<string, string, string, string, bool, string> customErrorMessageAccessor = null)
```

Parameters

column [string](#)

The column.

value [string](#)

The value.

comparisonColumn [string](#)

The comparison column.

comparisonValue [string](#)

The comparison value.

allowedEqual [bool](#)

if set to **true** [allowed equal].

customErrorMessageAccessor [Func<string, string, string, string, bool, string>](#)

The custom error message accessor. The arguments are column, value, comparison column, comparison value, allowed equal.

Properties

AllowedEqual

Gets or sets a value indicating whether [allowed equal].

```
public bool AllowedEqual { get; }
```

Property Value

[bool](#)

`true` if [allowed equal]; otherwise, `false`.

ComparisonColumn

Gets or sets the comparison column.

```
public string ComparisonColumn { get; }
```

Property Value

[string](#)

The comparison column.

ComparisonValue

Gets or sets the comparison value.

```
public string ComparisonValue { get; }
```

Property Value

[string](#)

The comparison value.

CustomErrorMessage

Gets the custom error message.

```
protected override string CustomErrorMessage { get; }
```

Property Value

[string](#)

The custom error message.

CustomErrorMessageAccessor

Gets the custom range message format.

```
public Func<string, string, string, string, bool, string> CustomErrorMessageAccessor { get;  
set; }
```

Property Value

[Func](#)<[string](#), [string](#), [string](#), [string](#), [bool](#), [string](#)>

The custom range message format.

DefaultErrorMessage

Gets the default error message.

```
protected override string DefaultErrorMessage { get; }
```

Property Value

[string](#)

The default error message.

HasCustomErrorMessage

Gets a value indicating whether this instance has custom error message.

```
protected override bool HasCustomErrorMessage { get; }
```

Property Value

[bool](#)

true if this instance has custom error message; otherwise, **false**.

Methods

TryParse(string, out T)

Tries the parse.

```
protected abstract bool TryParse(string value, out T result)
```

Parameters

value [string](#)

The value.

result [T](#)

The result.

Returns

[bool](#)

Parse value to type [T](#) result.

ValidateValue()

Validates the value.

```
protected override bool ValidateValue()
```

Returns

[bool](#)

The validation result.

Class ValidationProvider

Namespace: [CloudyWing.FormValidators.Core](#)

Assembly: CloudyWing.FormValidators.dll

The validation provider.

```
public class ValidationProvider
```

Inheritance

[object](#) ← ValidationProvider

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Methods

Compare(string, string, Func<string, string, string, string, string>)

Compare the value of one column with the value of another column.

```
public Func<string, string, CompareValidator> Compare(string comparisonColumn, string  
comparisonValue, Func<string, string, string, string, string> customErrorMessageAccessor  
= null)
```

Parameters

comparisonColumn [string](#)

The comparison column.

comparisonValue [string](#)

The comparison value.

customErrorMessageAccessor [Func<string, string, string, string>](#)

The custom error message accessor. The arguments are column, value, comparison column, comparison value.

Returns

[Func<string, string, CompareValidator>](#)

The validator creator.

Compare(string, string, string)

Compare the value of one column with the value of another column.

```
public Func<string, string, CompareValidator> Compare(string comparisonColumn, string  
comparisonValue, string errorMessageFormat)
```

Parameters

comparisonColumn [string](#)

The comparison column.

comparisonValue [string](#)

The comparison value.

errorMessageFormat [string](#)

The custom error message format. The arguments are column, value, comparison column, comparison value.

Returns

[Func<string, string, CompareValidator>](#)

The validator creator.

CreditCard(Func<string, string, string>)

Validation indicate that a value is credit card.

```
public Func<string, string, CreditCardValidator> CreditCard(Func<string, string, string>
customErrorMessageAccessor = null)
```

Parameters

customErrorMessageAccessor [Func<string, string, string>](#)

The custom error message accessor. The arguments are column, value.

Returns

[Func<string, string, CreditCardValidator>](#)

The validator creator.

CreditCard(string)

Validation indicate that a value is credit card.

```
public Func<string, string, CreditCardValidator> CreditCard(string errorMessageFormat)
```

Parameters

errorMessageFormat [string](#)

The custom error message format. The arguments are column, value.

Returns

[Func<string, string, CreditCardValidator>](#)

The validator creator.

DateTime(Func<string, string, DateTime?, DateTime?, string>)

Validation indicate that a value is date time.

```
public Func<string, string, DateTimeValidator> DateTime(Func<string, string, DateTime?,
```

```
DateTime?, string> customErrorMessageAccessor = null)
```

Parameters

`customErrorMessageAccessor Func<string, string, DateTime?, DateTime?, string>`

The custom error message accessor. The arguments are column, value, min, max.

Returns

`Func<string, string, DateTimeValidator>`

The validator creator.

DateTime(string)

Validation indicate that a value is date time.

```
public Func<string, string, DateTimeValidator> DateTime(string customErrorMessageFormat)
```

Parameters

`customErrorMessageFormat string`

The custom error message format. The arguments are column, value, min, max.

Returns

`Func<string, string, DateTimeValidator>`

The validator creator.

DateTimeLessThan(string, string, bool, Func<string, string, string, string, bool, string>)

Validate that an date time value is less than another column value.

```
public Func<string, string, DateTimeLessThanValidator> DateTimeLessThan(string comparisonColumn, string comparisonValue, bool allowedEqual = true, Func<string, string,
```

```
string, string, bool, string> customErrorMessageAccessor = null)
```

Parameters

comparisonColumn [string](#)

The comparison column.

comparisonValue [string](#)

The comparison value.

allowedEqual [bool](#)

if set to `true` [allowed equal].

customErrorMessageAccessor [Func<string, string, string, string, bool, string>](#)

The custom error message accessor. The arguments are column, value, comparison column, comparison value, allowed equal.

Returns

[Func<string, string, DateTimeLessThanValidator>](#)

The validator creator.

DateTimeLessThan(string, string, bool, string)

Validate that an date time value is less than another column value.

```
public Func<string, string, DateTimeLessThanValidator> DateTimeLessThan(string  
comparisonColumn, string comparisonValue, bool allowedEqual,  
string errorMessageFormat)
```

Parameters

comparisonColumn [string](#)

The comparison column.

comparisonValue [string](#)

The comparison value.

`allowedEqual` [bool](#)

if set to `true` [allowed equal].

`customErrorMessageFormat` [string](#)

The custom error message format. The arguments are column, value, comparison column, comparison value, allowed equal.

Returns

[Func](#)<[string](#), [string](#), [DateTimeLessThanValidator](#)>

The validator creator.

`DateTimeRange(DateTime, DateTime, Func<string, string, DateTime?, DateTime?, string>)`

Validation constrains the date time range of a value.

```
public Func<string, string, DateTimeValidator> DateTimeRange(DateTime min, DateTime max,  
Func<string, string, DateTime?, DateTime?, string> customErrorMessageAccessor = null)
```

Parameters

`min` [DateTime](#)

The minimum.

`max` [DateTime](#)

The maximum.

`customErrorMessageAccessor` [Func](#)<[string](#), [string](#), [DateTime](#)?, [DateTime](#)?, [string](#)>

The custom error message accessor. The arguments are column, value, min, max.

Returns

[Func](#)<[string](#), [string](#), [DateTimeValidator](#)>

The validator creator.

DateTimeRange(DateTime, DateTime, string)

Validation constrains the date time range of a value.

```
public Func<string, string, DateTimeValidator> DateTimeRange(DateTime min, DateTime max,  
    string customErrorMessageFormat)
```

Parameters

`min` [DateTime](#)

The minimum.

`max` [DateTime](#)

The maximum.

`customErrorMessageFormat` [string](#)

The custom error message format. The arguments are column, value, min, max.

Returns

[Func](#)<[string](#), [string](#), [DateTimeValidator](#)>

The validator creator.

Email(Func<string, string, string>)

Email validation.

```
public Func<string, string, EmailValidator> Email(Func<string, string, string>  
    customErrorMessageAccessor = null)
```

Parameters

`customErrorMessageAccessor` [Func](#)<[string](#), [string](#), [string](#)>

The custom error message accessor. The arguments are column, value.

Returns

[Func<string, string, EmailValidator>](#)

The validator creator.

Email(string)

Email validation.

```
public Func<string, string, RegexValidator> Email(string errorMessageFormat)
```

Parameters

errorMessageFormat [string](#)

The custom error message format. The arguments are column, value.

Returns

[Func<string, string, RegexValidator>](#)

The validator creator.

IPAddress(IPAddressTypes, Func<string, string, IPAddressTypes, string>)

Validation indicate that a value is IP address.

```
public Func<string, string, IPAddressValidator> IPAddress(IPAddressTypes types =  
IPAddressTypes.All, Func<string, string, IPAddressTypes, string> errorMessageAccessor  
= null)
```

Parameters

types [IPAddressTypes](#)

The types.

`customErrorMessageAccessor` [Func<string, string, IPAddressTypes, string>](#)

The custom error message accessor. The arguments are column, value, The IP address types.

Returns

[Func<string, string, IPAddressValidator>](#)

The validator creator.

IPAddress(IPAddressTypes, string)

Validation indicate that a value is IP address.

```
public Func<string, string, IPAddressValidator> IPAddress(IPAddressTypes types,  
    string errorMessageFormat)
```

Parameters

`types` [IPAddressTypes](#)

The types.

`errorMessageFormat` [string](#)

The custom error message format. The arguments are column, value, The IP address types.

Returns

[Func<string, string, IPAddressValidator>](#)

The validator creator.

IdCard(IdCardTypes, Func<string, string, IdCardTypes, string>)

Identification card validation.

```
public Func<string, string, IdCardValidator> IdCard(IdCardTypes idTypes = IdCardTypes.All,
```

```
Func<string, string, IdCardTypes, string> customErrorMessageAccessor = null)
```

Parameters

idTypes [IdCardTypes](#)

The Identification types.

customErrorMessageAccessor [Func<string, string, IdCardTypes, string>](#)

The custom error message accessor. The arguments are column, value, The identification card types.

Returns

[Func<string, string, IdCardValidator>](#)

The validator creator.

IdCard(IdCardTypes, string)

Identification card validation.

```
public Func<string, string, IdCardValidator> IdCard(IdCardTypes idTypes,  
string errorMessageFormat)
```

Parameters

idTypes [IdCardTypes](#)

The Identification types.

errorMessageFormat [string](#)

The custom error message format. The arguments are column, value, The identification card types.

Returns

[Func<string, string, IdCardValidator>](#)

The validator creator.

IntRange(long, long, bool, Func<string, string, long?, long?, string>)

Validation constrains the integer range of a value.

```
public Func<string, string, IntegerValidator> IntRange(long min, long max, bool  
allowedThousands = false, Func<string, string, long?, long?, string>  
customErrorMessageAccessor = null)
```

Parameters

min [long](#)

The minimum.

max [long](#)

The maximum.

allowedThousands [bool](#)

if set to `true` [allowed thousands].

customErrorMessageAccessor [Func<string, string, long?, long?, string>](#)

The custom error message accessor. The arguments are column, value, min, max.

Returns

[Func<string, string, IntegerValidator>](#)

The validator creator.

IntRange(long, long, bool, string)

Validation constrains the integer range of a value.

```
public Func<string, string, IntegerValidator> IntRange(long min, long max, bool  
allowedThousands, string customErrorMessageFormat)
```

Parameters

`min` [long](#)

The minimum.

`max` [long](#)

The maximum.

`allowedThousands` [bool](#)

if set to `true` [allowed thousands].

`customErrorMessageFormat` [string](#)

The custom error message format. The arguments are column, value, min, max.

Returns

[Func](#)<[string](#), [string](#), [IntegerValidator](#)>

The validator creator.

Integer(bool, Func<string, string, long?, long?, string>)

Validation indicate that a value is integer.

```
public Func<string, string, IntegerValidator> Integer(bool allowedThousands = false,  
Func<string, string, long?, long?, string> customErrorMessageAccessor = null)
```

Parameters

`allowedThousands` [bool](#)

if set to `true` [allowed thousands].

`customErrorMessageAccessor` [Func](#)<[string](#), [string](#), [long](#)?>

The custom error message accessor. The arguments are column, value, min, max.

Returns

[Func](#)<[string](#), [string](#), [IntegerValidator](#)>

The validator creator.

Integer(bool, string)

Validation indicate that a value is integer.

```
public Func<string, string, IntegerValidator> Integer(bool allowedThousands,  
string customErrorMessageFormat)
```

Parameters

`allowedThousands` [bool](#)

if set to `true` [allowed thousands].

`customErrorMessageFormat` [string](#)

The custom error message format. The arguments are column, value, min, max.

Returns

[Func](#)<[string](#), [string](#), [IntegerValidator](#)>

The validator creator.

IntegerLessThan(string, string, bool, Func<string, string, string, string, bool, string>)

Validate that an integer value is less than another column value.

```
public Func<string, string, IntegerLessThanValidator> IntegerLessThan(string  
comparisonColumn, string comparisonValue, bool allowedEqual = true, Func<string, string,  
string, string, bool, string> customErrorMessageAccessor = null)
```

Parameters

`comparisonColumn` [string](#)

The comparison column.

`comparisonValue` [string](#)

The comparison value.

`allowedEqual` [bool](#)

if set to `true` [allowed equal].

`customErrorMessageAccessor` [Func<string, string, string, string, bool, string>](#)

The custom error message accessor. The arguments are column, value, comparison column, comparison value, allowed equal.

Returns

[Func<string, string, IntegerLessThanValidator>](#)

The validator creator.

IntegerLessThan(string, string, bool, string)

Validate that an integer value is less than another column value.

```
public Func<string, string, IntegerLessThanValidator> IntegerLessThan(string  
comparisonColumn, string comparisonValue, bool allowedEqual,  
string customErrorMessageFormat)
```

Parameters

`comparisonColumn` [string](#)

The comparison column.

`comparisonValue` [string](#)

The comparison value.

`allowedEqual` [bool](#)

if set to `true` [allowed equal].

`customErrorMessageFormat` [string](#)

The custom error message format. The arguments are column, value, comparison column, comparison value, allowed equal.

Returns

[Func<string, string, IntegerLessThanValidator>](#)

The validator creator.

LengthRange(int, int, Func<string, string, long, long, string>)

Validation constraints a value does not exceed the length range.

```
public Func<string, string, ValueLengthValidator> LengthRange(int min, int max, Func<string, string, long, long, string> customErrorMessageAccessor = null)
```

Parameters

min [int](#)

The minimum.

max [int](#)

The maximum.

customErrorMessageAccessor [Func<string, string, long, long, string>](#)

The custom error message accessor. The arguments are column, value, min, max.

Returns

[Func<string, string, ValueLengthValidator>](#)

The validator creator.

LengthRange(int, int, string)

Validation constraints a value does not exceed the length range.

```
public Func<string, string, ValueLengthValidator> LengthRange(int min, int max,  
string errorMessageFormat)
```

Parameters

min [int](#)

The minimum.

max [int](#)

The maximum.

errorMessageFormat [string](#)

The custom error message format. The arguments are column, value, min, max.

Returns

[Func](#)<[string](#), [string](#), [ValueLengthValidator](#)>

The validator creator.

MaxDateTime(DateTime, Func<string, string, DateTime?, DateTime?, string>)

Validation constrains the maximum date time of a value.

```
public Func<string, string, DateTimeValidator> MaxDateTime(DateTime max, Func<string,  
string, DateTime?, DateTime?, string> errorMessageAccessor = null)
```

Parameters

max [DateTime](#)

The maximum.

errorMessageAccessor [Func](#)<[string](#), [string](#), [DateTime](#)?, [DateTime](#)?, [string](#)>

The custom error message accessor. The arguments are column, value, min, max.

Returns

[Func<string, string, DateTimeValidator>](#)

The validator creator.

MaxDateTime(DateTime, string)

Validation constrains the maximum date time of a value.

```
public Func<string, string, DateTimeValidator> MaxDateTime(DateTime max,  
    string customErrorMessageFormat)
```

Parameters

max [DateTime](#)

The maximum.

customErrorMessageFormat [string](#)

The custom error message format. The arguments are column, value, min, max.

Returns

[Func<string, string, DateTimeValidator>](#)

The validator creator.

MaxInt(long, bool, Func<string, string, long?, long?, string>)

Validation constrains the maximum integer of a value.

```
public Func<string, string, IntegerValidator> MaxInt(long max, bool allowedThousands =  
    false, Func<string, string, long?, long?, string> customErrorMessageAccessor = null)
```

Parameters

max [long](#)

The maximum.

`allowedThousands` [bool](#)

if set to `true` [allowed thousands].

`customErrorMessageAccessor` [Func](#)<[string](#), [string](#), [long](#)??, [long](#)??, [string](#)>

The custom error message accessor. The arguments are column, value, min, max.

Returns

[Func](#)<[string](#), [string](#), [IntegerValidator](#)>

The validator creator.

MaxInt(`long`, `bool`, `string`)

Validation constrains the maximum integer of a value.

```
public Func<string, string, IntegerValidator> MaxInt(long max, bool allowedThousands,  
string errorMessageFormat)
```

Parameters

`max` [long](#)

The maximum.

`allowedThousands` [bool](#)

if set to `true` [allowed thousands].

`errorMessageFormat` [string](#)

The custom error message format. The arguments are column, value, min, max.

Returns

[Func](#)<[string](#), [string](#), [IntegerValidator](#)>

The validator creator.

MaxLength(long, Func<string, string, long, long, string>)

Validation to constrains a value does not exceed a maximum length.

```
public Func<string, string, ValueLengthValidator> MaxLength(long max, Func<string, string, long, long, string> customErrorMessageAccessor = null)
```

Parameters

max [long](#)

The maximum.

customErrorMessageAccessor [Func<string, string, long, long, string>](#)

The custom error message accessor. The arguments are column, value, min, max.

Returns

[Func<string, string, ValueLengthValidator>](#)

The validator creator.

MaxLength(long, string)

Validation to constrains a value does not exceed a maximum length.

```
public Func<string, string, ValueLengthValidator> MaxLength(long max, string customErrorMessageFormat)
```

Parameters

max [long](#)

The maximum.

customErrorMessageFormat [string](#)

The custom error message format. The arguments are column, value, min, max.

Returns

[Func<string, string, ValueLengthValidator>](#)

The validator creator.

MaxNumber(decimal, bool, Func<string, string, decimal?, decimal?, string>)

Validation constrains the maximum number of a value.

```
public Func<string, string, NumberValidator> MaxNumber(decimal max, bool allowedThousands =  
false, Func<string, string, decimal?, decimal?, string> customErrorMessageAccessor = null)
```

Parameters

max [decimal](#)

The maximum.

allowedThousands [bool](#)

if set to **true** [allowed thousands].

customErrorMessageAccessor [Func<string, string, decimal?, decimal?, string>](#)

The custom error message accessor. The arguments are column, value, min, max.

Returns

[Func<string, string, NumberValidator>](#)

The validator creator.

MaxNumber(decimal, bool, string)

Validation constrains the maximum number of a value.

```
public Func<string, string, NumberValidator> MaxNumber(decimal max, bool allowedThousands,  
string customErrorMessageFormat)
```

Parameters

`max` [decimal](#)

The maximum.

`allowedThousands` [bool](#)

if set to `true` [allowed thousands].

`customErrorMessageFormat` [string](#)

The custom error message format. The arguments are column, value, min, max.

Returns

[Func](#)<[string](#), [string](#), [NumberValidator](#)>

The validator creator.

MinDateTime(DateTime, Func<string, string, DateTime?, DateTime?, string>)

Validation constrains the minimum date time of a value.

```
public Func<string, string, DateTimeValidator> MinDateTime(DateTime min, Func<string, string, DateTime?, DateTime?, string> customErrorMessageAccessor = null)
```

Parameters

`min` [DateTime](#)

The minimum.

`customErrorMessageAccessor` [Func](#)<[string](#), [string](#), [DateTime](#)?>, [DateTime](#)?>, [string](#)>

The custom error message accessor. The arguments are column, value, min, max.

Returns

[Func](#)<[string](#), [string](#), [DateTimeValidator](#)>

The validator creator.

MinDateTime(DateTime, string)

Validation constrains the minimum date time of a value.

```
public Func<string, string, DateTimeValidator> MinDateTime(DateTime min,  
    string errorMessageFormat)
```

Parameters

`min` [DateTime](#)

The minimum.

`errorMessageFormat` [string](#)

The custom error message format. The arguments are column, value, min, max.

Returns

[Func](#)<[string](#), [string](#), [DateTimeValidator](#)>

The validator creator.

MinInt(long, bool, Func<string, string, long?, long?, string>)

Validation constrains the minimum integer of a value.

```
public Func<string, string, IntegerValidator> MinInt(long min, bool allowedThousands =  
    false, Func<string, string, long?, long?, string> errorMessageAccessor = null)
```

Parameters

`min` [long](#)

The minimum.

`allowedThousands` [bool](#)

`errorMessageAccessor` [Func](#)<[string](#), [string](#), [long](#)?>, [long](#)?>, [string](#)>

The custom error message accessor. The arguments are column, value, min, max.

Returns

[Func<string, string, IntegerValidator>](#)

The validator creator.

MinInt(long, bool, string)

Validation constrains the minimum integer of a value.

```
public Func<string, string, IntegerValidator> MinInt(long min, bool allowedThousands,  
string customErrorMessageFormat)
```

Parameters

min [long](#)

The minimum.

allowedThousands [bool](#)

if set to `true` [allowed thousands].

customErrorMessageFormat [string](#)

The custom error message format. The arguments are column, value, min, max.

Returns

[Func<string, string, IntegerValidator>](#)

The validator creator.

MinLength(long, Func<string, string, long, long, string>)

Validation to constrains a value does not exceed a minimum length.

```
public Func<string, string, ValueLengthValidator> MinLength(long min, Func<string, string,  
long, long, string> customErrorMessageAccessor = null)
```

Parameters

`min` [long](#)

The minimum.

`customErrorMessageAccessor` [Func<string, string, long, long, string>](#)

The custom error message accessor. The arguments are column, value, min, max.

Returns

[Func<string, string, ValueLengthValidator>](#)

The validator creator.

MinLength(long, string)

Validation to constrains a value does not exceed a minimum length.

```
public Func<string, string, ValueLengthValidator> MinLength(long min,  
    string errorMessageFormat)
```

Parameters

`min` [long](#)

The minimum.

`errorMessageFormat` [string](#)

The custom error message format. The arguments are column, value, min, max.

Returns

[Func<string, string, ValueLengthValidator>](#)

The validator creator.

MinNumber(decimal, bool, Func<string, string, decimal?,

decimal?, string>)

Validation constrains the minimum number of a value.

```
public Func<string, string, NumberValidator> MinNumber(decimal min, bool allowedThousands =  
    false, Func<string, string, decimal?, decimal?, string> customErrorMessageAccessor = null)
```

Parameters

`min` [decimal](#)

The minimum.

`allowedThousands` [bool](#)

if set to `true` [allowed thousands].

`customErrorMessageAccessor` [Func](#)<[string](#), [string](#), [decimal](#)?>, [decimal](#)?>, [string](#)>

The custom error message accessor. The arguments are column, value, min, max.

Returns

[Func](#)<[string](#), [string](#), [NumberValidator](#)>

The validator creator.

MinNumber(decimal, bool, string)

Validation constrains the minimum number of a value.

```
public Func<string, string, NumberValidator> MinNumber(decimal min, bool allowedThousands,  
    string customErrorMessageFormat)
```

Parameters

`min` [decimal](#)

The minimum.

`allowedThousands` [bool](#)

if set to `true` [allowed thousands].

`customErrorMessageFormat` [string](#)

The custom error message format. The arguments are column, value, min, max.

Returns

[Func](#)<[string](#), [string](#), [NumberValidator](#)>

The validator creator.

MobilePhone([MobilePhoneFormats](#), [Func<string, string, MobilePhoneFormats, string>](#))

Mobile phone validation.

```
public Func<string, string, MobilePhoneValidator> MobilePhone(MobilePhoneFormats formats =
MobilePhoneFormats.All, Func<string, string, MobilePhoneFormats, string>
customErrorMessageAccessor = null)
```

Parameters

`formats` [MobilePhoneFormats](#)

The formats.

`customErrorMessageAccessor` [Func](#)<[string](#), [string](#), [MobilePhoneFormats](#), [string](#)>

The custom error message accessor. The arguments are column, value, The mobile phone formats.

Returns

[Func](#)<[string](#), [string](#), [MobilePhoneValidator](#)>

The validator creator.

MobilePhone([MobilePhoneFormats](#), [string](#))

Mobile phone validation.

```
public Func<string, string, MobilePhoneValidator> MobilePhone(MobilePhoneFormats formats,
string errorMessageFormat)
```

Parameters

formats [MobilePhoneFormats](#)

The formats.

errorMessageFormat [string](#)

The custom error message format. The arguments are column, value, The mobile phone formats.

Returns

[Func<string, string, MobilePhoneValidator>](#)

The validator creator.

Number(bool, Func<string, string, decimal?, decimal?, string>)

Validation indicate that a value is number.

```
public Func<string, string, NumberValidator> Number(bool allowedThousands = false,
Func<string, string, decimal?, decimal?, string> errorMessageAccessor = null)
```

Parameters

allowedThousands [bool](#)

if set to **true** [allowed thousands].

errorMessageAccessor [Func<string, string, decimal?, decimal?, string>](#)

The custom error message accessor. The arguments are column, value, min, max.

Returns

[Func<string, string, NumberValidator>](#)

The validator creator.

Number(bool, string)

Validation indicate that a value is number.

```
public Func<string, string, NumberValidator> Number(bool allowedThousands,  
string errorMessageFormat)
```

Parameters

`allowedThousands` [bool](#)

if set to `true` [allowed thousands].

`errorMessageFormat` [string](#)

The custom error message format. The arguments are column, value, min, max.

Returns

[Func](#)<[string](#), [string](#), [NumberValidator](#)>

The validator creator.

NumberLessThan(string, string, bool, Func<string, string, string, string, bool, string>)

Validate that an number value is less than another column value.

```
public Func<string, string, NumberLessThanValidator> NumberLessThan(string comparisonColumn,  
string comparisonValue, bool allowedEqual = true, Func<string, string, string, string, bool,  
string> errorMessageAccessor = null)
```

Parameters

`comparisonColumn` [string](#)

The comparison column.

`comparisonValue` [string](#)

The comparison value.

`allowedEqual` [bool](#)

if set to `true` [allowed equal].

`customErrorMessageAccessor` [Func](#)<[string](#), [string](#), [string](#), [string](#), [bool](#), [string](#)>

The custom error message accessor. The arguments are column, value, comparison column, comparison value, allowed equal.

Returns

[Func](#)<[string](#), [string](#), [NumberLessThanValidator](#)>

The validator creator.

NumberLessThan(string, string, bool, string)

Validate that an number value is less than another column value.

```
public Func<string, string, NumberLessThanValidator> NumberLessThan(string comparisonColumn,  
string comparisonValue, bool allowedEqual, string customErrorMessageFormat)
```

Parameters

`comparisonColumn` [string](#)

The comparison column.

`comparisonValue` [string](#)

The comparison value.

`allowedEqual` [bool](#)

if set to `true` [allowed equal].

`customErrorMessageFormat` [string](#)

The custom error message format. The arguments are column, value, comparison column, comparison value, allowed equal.

Returns

[Func<string, string, NumberLessThanValidator>](#)

The validator creator.

NumberRange(decimal, decimal, bool, Func<string, string, decimal?, decimal?, string>)

Validation constrains the number range of a value.

```
public Func<string, string, NumberValidator> NumberRange(decimal min, decimal max, bool allowedThousands = false, Func<string, string, decimal?, decimal?, string> customErrorMessageAccessor = null)
```

Parameters

min [decimal](#)

The minimum.

max [decimal](#)

The maximum.

allowedThousands [bool](#)

if set to `true` [allowed thousands].

customErrorMessageAccessor [Func<string, string, decimal?, decimal?, string>](#)

The custom error message accessor. The arguments are column, value, min, max.

Returns

[Func<string, string, NumberValidator>](#)

The validator creator.

NumberRange(decimal, decimal, bool, string)

Validation constrains the number range of a value.

```
public Func<string, string, NumberValidator> NumberRange(decimal min, decimal max, bool allowedThousands, string customErrorMessageFormat)
```

Parameters

min [decimal](#)

The minimum.

max [decimal](#)

The maximum.

allowedThousands [bool](#)

if set to `true` [allowed thousands].

customErrorMessageFormat [string](#)

The custom error message format. The arguments are column, value, min, max.

Returns

[Func](#)<[string](#), [string](#), [NumberValidator](#)>

The validator creator.

Regex(string, Func<string, string, string>)

Regex validation.

```
public Func<string, string, RegexValidator> Regex(string pattern, Func<string, string, string> customErrorMessageAccessor = null)
```

Parameters

pattern [string](#)

The pattern.

customErrorMessageAccessor [Func](#)<[string](#), [string](#), [string](#)>

The custom error message accessor. The arguments are column, value.

Returns

[Func<string, string, RegexValidator>](#)

The validator creator.

Regex(string, string)

Regex validation.

```
public Func<string, string, RegexValidator> Regex(string pattern,  
string errorMessageFormat)
```

Parameters

pattern [string](#)

The pattern.

errorMessageFormat [string](#)

The custom error message format. The arguments are column, value.

Returns

[Func<string, string, RegexValidator>](#)

The validator creator.

Required(Func<string, string, string>)

Validation indicate that a value is required.

```
public Func<string, string, RequiredValidator> Required(Func<string, string, string>  
customErrorMessageAccessor = null)
```

Parameters

`customErrorMessageAccessor` [Func<string, string, string>](#)

The custom error message accessor. The arguments are column, value.

Returns

[Func<string, string, RequiredValidator>](#)

The validator creator.

Required(string)

Validation indicate that a value is required.

```
public Func<string, string, RequiredValidator> Required(string customErrorMessageFormat)
```

Parameters

`customErrorMessageFormat` [string](#)

The custom error message format. The arguments are column, value.

Returns

[Func<string, string, RequiredValidator>](#)

The validator creator.

Url(UriKind, Func<string, string, string>)

Validation indicate that a value is URL.

```
public Func<string, string, UrlValidator> Url(UriKind kind = UriKind.Absolute, Func<string, string, string> customErrorMessageAccessor = null)
```

Parameters

`kind` [UriKind](#)

The kind.

`customErrorMessageAccessor` [Func<string, string, string>](#)

The custom error message accessor. The arguments are column, value.

Returns

[Func<string, string, UrlValidator>](#)

The validator creator.

Url(UriKind, string)

Validation indicate that a value is URL.

```
public Func<string, string, UrlValidator> Url(UriKind kind, string errorMessageFormat)
```

Parameters

`kind` [UriKind](#)

The kind.

`errorMessageFormat` [string](#)

The custom error message format. The arguments are column, value.

Returns

[Func<string, string, UrlValidator>](#)

The validator creator.

Class ValidatorConfiguration

Namespace: [CloudyWing.FormValidators.Core](#)

Assembly: CloudyWing.FormValidators.dll

The validator configuration.

```
public class ValidatorConfiguration
```

Inheritance

[object](#) ← ValidatorConfiguration

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

ValidatorConfiguration(BulkValidator)

Initializes a new instance of the [ValidatorConfiguration](#) class.

```
public ValidatorConfiguration(BulkValidator validators)
```

Parameters

validators [BulkValidator](#)

The validators.

Methods

Add(string, string, IEnumerable<Func<ValidationProvider, Func<string, string, IFormValidator>>>)

Adds the validators.

```
public void Add(string column, string value, IEnumerable<Func<ValidationProvider,
Func<string, string, IFormValidator>>> validatorCreators)
```

Parameters

column [string](#)

The column.

value [string](#)

The value.

validatorCreators [IEnumerable](#)<[Func](#)<ValidationProvider, [Func](#)<string, string, IFormValidator>>>

The validator creators.

Add(string, string, params Func<ValidationProvider, Func<string, string, IFormValidator>>[])

Adds the validators.

```
public void Add(string column, string value, params Func<ValidationProvider, Func<string,
string, IFormValidator>>[] validatorCreators)
```

Parameters

column [string](#)

The column.

value [string](#)

The value.

validatorCreators [Func](#)<ValidationProvider, [Func](#)<string, string, IFormValidator>>[]

The validator creators.

AddBulk(Action<ValidatorConfiguration>, bool)

Adds the bulk validator.

```
public void AddBulk(Action<ValidatorConfiguration> configure, bool isStoppedIfFail = false)
```

Parameters

`configure` [Action<ValidatorConfiguration>](#)

The configure.

`isStoppedIfFail` [bool](#)

if set to `true` [is stopped if fail].

AddFalseAssert(bool, string)

Adds the false assert validator.

```
public void AddFalseAssert(bool isFalse, string message)
```

Parameters

`isFalse` [bool](#)

if set to `true` [is false].

`message` [string](#)

The message.

AddFalseAssert(Func<bool>, string)

Adds the false assert validator.

```
public void AddFalseAssert(Func<bool> falsePredicate, string message)
```

Parameters

`falsePredicate` [Func<bool>](#)

The false predicate.

`message` [string](#)

The message.

`AddIf(bool, string, string,
IEnumerable<Func<ValidationProvider, Func<string, string,
IFormValidator>>>)`

Adds validators if condition is `true`.

```
public void AddIf(bool condition, string column, string value,  
IEnumerable<Func<ValidationProvider, Func<string, string, IFormValidator>>>  
validatorCreators)
```

Parameters

`condition` [bool](#)

`column` [string](#)

`value` [string](#)

`validatorCreators` [IEnumerable<Func<ValidationProvider, Func<string, string, IFormValidator>>>](#)

`AddIf(bool, string, string, params Func<ValidationProvider,
Func<string, string, IFormValidator>>[])`

Adds validators if condition is `true`.

```
public void AddIf(bool condition, string column, string value, params  
Func<ValidationProvider, Func<string, string, IFormValidator>>[] validatorCreators)
```

Parameters

condition [bool](#)

if set to `true` [condition].

column [string](#)

The column.

value [string](#)

The value.

validatorCreators [Func](#)<[ValidationProvider](#), [Func](#)<[string](#), [string](#), [IFormValidator](#)>>[]

The validator creators.

AddTrueAssert(bool, string)

Adds the true assert validator.

```
public void AddTrueAssert(bool isTrue, string message)
```

Parameters

`isTrue` [bool](#)

if set to `true` [is true].

`message` [string](#)

The message.

AddTrueAssert(Func<bool>, string)

Adds the true assert validator.

```
public void AddTrueAssert(Func<bool> truePredicate, string message)
```

Parameters

`truePredicate` [Func](#)<[bool](#)>

The true predicate.

message string ↗

The message.