

My Project

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

randomorg_documentation.Client.Client	5
Exception	
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Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

randomorg_documentation.Client.Client	
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Chapter 3

Class Documentation

3.1 randomorg_documentation.Client.Client Class Reference

[Client](#) object holding all methods for the api.

Public Member Functions

- def [__init__](#) (self, str token)
- def [getToken](#) (self)
Get the stored api token.
- def [setToken](#) (self, str token)
Set the stored api token.
- def [getId](#) (self)
Get the stored id.
- def [setId](#) (self, int ident)
Set a new id.
- def [genInt](#) (self, int n, int minimum, int maximum, **kwargs)
Generate Integers.
- def [genIntSeq](#) (self, int n, int length, int minimum, int maximum, **kwargs)
Generate Integer Sequences.
- def [genDecFrac](#) (self, int n, int decimalPlaces, **kwargs)
Generate Decimal Fractions.
- def [genGauss](#) (self, int n, int mean, int standardDeviation, int significantDigits, **kwargs)
Generate Gaussian Distribution Numbers.
- def [genStr](#) (self, int n, int length, str characters, **kwargs)
Generate random strings.
- def [genUUID](#) (self, int n, **kwargs)
Generate random UUIDs.
- def [genBlob](#) (self, int n, int size, **kwargs)
Generate random BLOBs.
- def [getUsage](#) (self, **kwargs)
Get usage statistics.
- def [__str__](#) (self)

Public Attributes

- `token`
- `id`

Static Public Attributes

- string `url` = "https://api.random.org/json-rpc/4/invoke"

3.1.1 Detailed Description

`Client` object holding all methods for the api.

This class is the `Client` object, which contains all methods that are used for the api. It also stores the api key (token) and an id (id)

Author

Felix Hune

Version

0.1

Date

2024-06-14

3.1.2 Constructor & Destructor Documentation

3.1.2.1 `__init__()`

```
def randomorg_documentation.Client.Client.__init__ (
    self,
    str token )
```

Parameters

<i>token</i>	The api key / token for the random.org api
--------------	--

Author

Felix Hune

Date

2024-06-14

3.1.3 Member Function Documentation

3.1.3.1 genBlob()

```
def randomorg_documentation.Client.Client.genBlob (
    self,
    int n,
    int size,
    ** kwargs )
```

Generate random BLOBs.

Generate a given number of BLOBs of given size in bits

Parameters

<i>n</i>	Count of BLOBs to generate (1 to 100)
<i>size</i>	The size of each blob (1 to 1048576 bits, must be divisible by 8). Additionally, the total size must not exceed 1048576 bits.
<i>form</i>	Keyword Argument This defines the format of the response. Must be one of (base64, hex). Defaults to base64.
<i>simple</i>	Keyword Argument This defines wether the response should be simple styled or the full response. Defaults to False.

Returns

Either a dict in json style or a list

Author

Felix Hune

Version

0.1

Date

2024-06-14

3.1.3.2 genDecFrac()

```
def randomorg_documentation.Client.Client.genDecFrac (
    self,
    int n,
    int decimalPlaces,
    ** kwargs )
```

Generate Decimal Fractions.

Generate a given number of decimal fractions between 0 and 1 with a given number of decimal places

Parameters

<i>n</i>	Count of numbers to generate (1 to 10000)
<i>decimalPlaces</i>	Count of decimal places for each number (1 to 14)
<i>replacement</i>	Keyword Argument This defines wether values are allowed to occure multiple times or not. Defaults to <code>True</code> .
<i>simple</i>	Keyword Argument This defines wether the response should be simple styled or the full response. Defaults to <code>False</code> .

Returns

Either a `dict` in `json` format or a `list`

Author

Felix Hune

Version

0.1

Date

2024-06-14

3.1.3.3 genGauss()

```
def randomorg_documentation.Client.Client.genGauss (
    self,
    int n,
    int mean,
    int standardDeviation,
    int significantDigits,
    ** kwargs )
```

Generate Gaussian Distribution Numbers.

Generate a given number of random numbers from a Gaussian distribution with given mean and standard deviation values.

Parameters

<i>n</i>	Count of numbers to generate (1 to 10000)
<i>mean</i>	Mean value of the Gaussian distribution (-1E6 to 1E6)
<i>standardDeviation</i>	Standard deviation value of the Gaussian distribution (-1E6 to 1E6)
<i>significantDigits</i>	Count of significant digits (2 to 14)
<i>simple</i>	Keyword Argument This defines wether the response should be simple styled or the full response. Defaults to <code>False</code> .

Returns

Either a `dict` in json style or a `list`

Author

Felix Hune

Version

0.1

Date

2024-06-14

3.1.3.4 genInt()

```
def randomorg_documentation.Client.Client.genInt (
    self,
    int n,
    int minimum,
    int maximum,
    ** kwargs )
```

Generate Integers.

Generate a given number of integers within given borders

Parameters

<i>n</i>	Count of numbers to generate (1 to 10000)
<i>minimum</i>	The minimum for each number (-1E9 to 1E9)
<i>maximum</i>	The maximum for each number (-1E9 to 1E9)
<i>base</i>	Keyword Argument This defines the base the numbers should be in (one of (2,8,10,16)). Default is <code>10</code> .
<i>replacement</i>	Keyword Argument This defines wether values are allowed to occure multiple times or not. Defaults to <code>True</code> .
<i>simple</i>	Keyword Argument This defines wether the response should be simple styled or the full response. Defaults to <code>False</code> .

Returns

Either a `dict` in json format or a `list`

Author

Felix Hune

Version

0.1

Date

2024-06-14

3.1.3.5 genIntSeq()

```
def randomorg_documentation.Client.Client.genIntSeq (
    self,
    int n,
    int length,
    int minimum,
    int maximum,
    ** kwargs )
```

Generate Integer Sequences.

Generate a given number of integer sequences of given length within given borders

Parameters

<i>n</i>	Count of sequences to generate (1 to 1000)
<i>length</i>	Count of numbers per sequence (1 to 10000)
<i>minimum</i>	The minimum for each number (-1E9 to 1E9)
<i>maximum</i>	The maximum for each number (-1E9 to 1E9)
<i>base</i>	Keyword Argument This defines the base the numbers should be in (one of (2,8,10,16)). Default is 10.
<i>replacement</i>	Keyword Argument This defines wether values are allowed to occure multiple times or not. Defaults to <code>True</code> .
<i>simple</i>	Keyword Argument This defines wether the response should be simple styled or the full response. Defaults to <code>False</code> .

Returns

Either a `dict` in json format or a `list of lists`

Author

Felix Hune

Version

0.1

Date

2024-06-14

3.1.3.6 genStr()

```
def randomorg_documentation.Client.Client.genStr (
    self,
    int n,
    int length,
    str characters,
    ** kwargs )
```

Generate random strings.

Generate a given number of strings with given length consisting of given chars

Parameters

<i>n</i>	Count of strings to generate (1 to 10000)
<i>length</i>	The length of the strings (1 to 32)
<i>characters</i>	A string containing the characters to include in generation (max 128)
<i>replacement</i>	Keyword Argument This defines wether values are allowed to occure multiple times or not. Defaults to <code>True</code> .
<i>simple</i>	Keyword Argument This defines wether the response should be simple styled or the full response. Defaults to <code>False</code> .

Returns

Either a `dict` in json style or a `list`

Author

Felix Hune

Version

0.1

Date

2024-06-14

3.1.3.7 genUUID()

```
def randomorg_documentation.Client.Client.genUUID (
    self,
    int n,
    ** kwargs )
```

Generate random UUIDs.

Generate a given number of UUIDs

Parameters

<i>n</i>	Count of UUIDs to generate (1 to 1000)
<i>simple</i>	Keyword Argument This defines wether the response should be simple styled or the full response. Defaults to <code>False</code> .

Returns

Either a `dict` in json style or a `list`

Author

Felix Hune

Version

0.1

Date

2024-06-14

3.1.3.8 getId()

```
def randomorg_documentation.Client.Client.getId (
    self )
```

Get the stored id.

Returns

`int`

3.1.3.9 getToken()

```
def randomorg_documentation.Client.Client.getToken (
    self )
```

Get the stored api token.

Returns

str

3.1.3.10 getUsage()

```
def randomorg_documentation.Client.Client.getUsage (
    self,
    ** kwargs )
```

Get usage statistics.

Get the usage statistics for this api key

Parameters

<i>simple</i>	Keyword Argument This defines wether the response should be simple styled or the full response. Defaults to False.
---------------	---

Returns

A dict in json style

Author

Felix Hune

Version

0.1

Date

2024-06-14

3.1.3.11 setId()

```
def randomorg_documentation.Client.Client.setId (
    self,
    int ident )
```

Set a new id.

Parameters

<i>id</i>	A new id
-----------	----------

3.1.3.12 setToken()

```
def randomorg_documentation.Client.Client.setToken (
    self,
    str token )
```

Set the stored api token.

Parameters

<i>token</i>	A new api key / token for the api
--------------	-----------------------------------

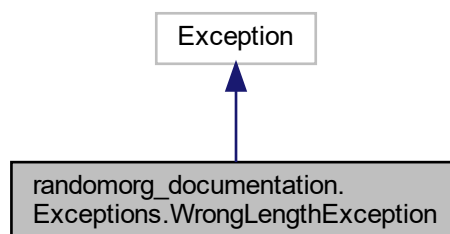
The documentation for this class was generated from the following file:

- Client.py

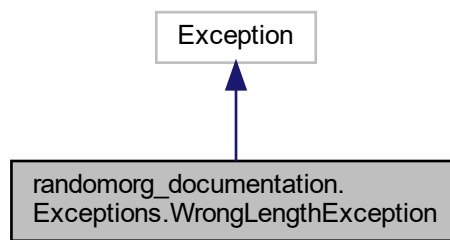
3.2 randomorg_documentation.Exceptions.WrongLengthException Class Reference

Exception class for values exceeding length.

Inheritance diagram for randomorg_documentation.Exceptions.WrongLengthException:



Collaboration diagram for randomorg_documentation.Exceptions.WrongLengthException:



Public Member Functions

- `def __init__(self, length, minimum, maximum)`

Public Attributes

- `length`
- `message`

3.2.1 Detailed Description

Exception class for values exceeding length.

Exception used if a values length exceeds limits

Author

Felix Hune

Version

0.1

Date

2024-06-14

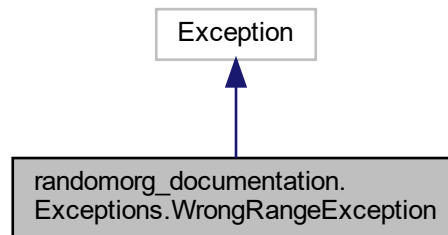
The documentation for this class was generated from the following file:

- `Exceptions.py`

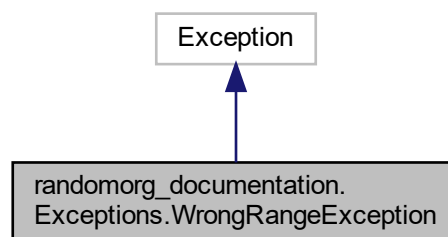
3.3 randomorg_documentation.Exceptions.WrongRangeException Class Reference

Exception class for values exceeding range.

Inheritance diagram for randomorg_documentation.Exceptions.WrongRangeException:



Collaboration diagram for randomorg_documentation.Exceptions.WrongRangeException:



Public Member Functions

- `def __init__(self, value, minimum, maximum)`

Public Attributes

- `value`
- `message`

3.3.1 Detailed Description

Exception class for values exceeding range.

Exception used if a value exceeds a range

Author

Felix Hune

Version

0.1

Date

2024-06-14

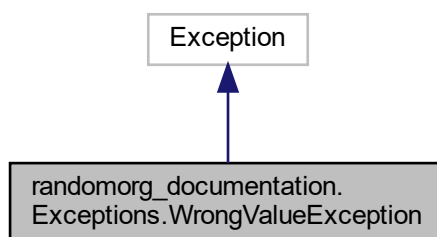
The documentation for this class was generated from the following file:

- Exceptions.py

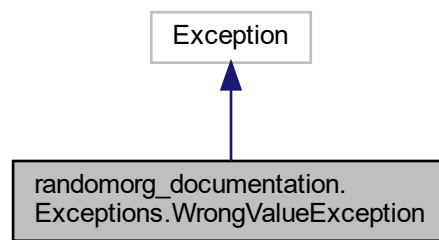
3.4 randomorg_documentation.Exceptions.WrongValueException Class Reference

Exception class for invalid values.

Inheritance diagram for randomorg_documentation.Exceptions.WrongValueException:



Collaboration diagram for randomorg_documentation.Exceptions.WrongValueException:



Public Member Functions

- `def __init__(self, base, rang)`

Public Attributes

- `base`
- `message`

3.4.1 Detailed Description

Exception class for invalid values.

Exception used if a value has to be one of a specific list.

Author

Felix Hune

Version

0.1

Date

2024-06-14

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

- `Exceptions.py`

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