PommaLabs.Thrower 3.0.0

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Contents

1	Nam	nespace Index	1
	1.1	Packages	1
2	Hiera	archical Index	3
	2.1	Class Hierarchy	3
3	Clas	es Index	5
	3.1	Class List	5
4	File	Index	7
	4.1	File List	7
5	Nam	nespace Documentation	9
	5.1	PommaLabs Namespace Reference	9
	5.2	PommaLabs.Thrower Namespace Reference	9
	5.3	PommaLabs.Thrower.ExceptionHandlers Namespace Reference	10
	5.4	PommaLabs.Thrower.Reflection Namespace Reference	10
	5.5	PommaLabs.Thrower.Reflection.FastMember Namespace Reference	11
	5.6	PommaLabs.Thrower.Validation Namespace Reference	11

iv CONTENTS

6	Clas	s Docu	mentation		13
	6.1	Pomma	aLabs.Thro	ower.ExceptionHandlers.ArgumentExceptionHandler Class Reference	13
		6.1.1	Detailed	Description	14
		6.1.2	Member	Function Documentation	14
			6.1.2.1	If(bool condition)	14
			6.1.2.2	If(bool condition, string argumentName, string message=null)	14
			6.1.2.3	IfIsNotValid< TArg >(TArg argument)	15
			6.1.2.4	IfIsNotValid< TArg >(TArg argument, string argumentName, string message=null)	15
			6.1.2.5	IfIsNotValidEmailAddress(string emailAddress)	16
			6.1.2.6	IfIsNotValidEmailAddress(string emailAddress, EmailAddressValidator.Options validatorOptions)	17
			6.1.2.7	IfIsNotValidEmailAddress(string emailAddress, string argumentName, string message=null)	17
			6.1.2.8	IfIsNotValidEmailAddress(string emailAddress, string argumentName, Email AddressValidator.Options validatorOptions, string message=null)	18
			6.1.2.9	IfIsNotValidPhoneNumber(string phoneNumber)	19
			6.1.2.10	IfIsNotValidPhoneNumber(string phoneNumber, string argumentName, string message=null)	19
			6.1.2.11	IfIsNullOrEmpty(string value)	20
			6.1.2.12	IfIsNullOrEmpty(string value, string argumentName, string message=null)	20
			6.1.2.13	IfIsNullOrEmpty < TItem > (ICollection < TItem > value)	21
			6.1.2.14	IfIsNullOrEmpty< TItem >(ICollection< TItem > value, string argumentName, string message=null)	21
			6.1.2.15	IfIsNullOrWhiteSpace(string value)	22
			6.1.2.16	IfIsNullOrWhiteSpace(string value, string argumentName, string message=null) .	22
			6.1.2.17	IfNot(bool condition)	22
			6.1.2.18	IfNot(bool condition, string argumentName, string message=null)	23
	6.2	Pomma	aLabs.Thro	ower.ExceptionHandlers.ArgumentNullExceptionHandler Class Reference	23
		6.2.1	Detailed	Description	24
		6.2.2	Member	Function Documentation	24
			6.2.2.1	If(bool condition)	24
			6.2.2.2	If(bool condition, string argumentName, string message=null)	24
			6.2.2.3	IfIsNull< TArg >(TArg argument)	24

CONTENTS

		6.2.2.4	IfIsNull < TArg > (TArg argument, string argumentName, string message=null) .	25
		6.2.2.5	IfIsNull < TArg > (TArg?argument)	26
		6.2.2.6	IfIsNull < TArg > (ref TArg?argument)	26
		6.2.2.7	IfIsNull < TArg > (TArg?argument, string argumentName, string message=null) .	27
		6.2.2.8	IfIsNull < TArg > (ref TArg?argument, string argumentName, string message=null)	27
6.3	Pomm	aLabs.Thro	ower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler Class Reference	28
	6.3.1	Detailed	Description	30
	6.3.2	Member	Function Documentation	30
		6.3.2.1	If(bool condition, string argumentName=null)	30
		6.3.2.2	If(bool condition, string argumentName, string message)	30
		6.3.2.3	IfIsEqual(IComparable argument1, IComparable argument2)	31
		6.3.2.4	IfIsEqual(IComparable argument1, IComparable argument2, string argumentName)	31
		6.3.2.5	IfIsEqual(IComparable argument1, IComparable argument2, string argument← Name, string message)	31
		6.3.2.6	IfIsEqual < TArg >(TArg argument1, TArg argument2)	31
		6.3.2.7	IfIsEqual< TArg >(TArg argument1, TArg argument2, string argumentName)	32
		6.3.2.8	IfIsEqual < TArg > (TArg argument1, TArg argument2, string argumentName, string message)	32
		6.3.2.9	IfIsGreater(IComparable argument1, IComparable argument2)	33
		6.3.2.10	IfIsGreater(IComparable argument1, IComparable argument2, string argument ← Name)	33
		6.3.2.11	IfIsGreater(IComparable argument1, IComparable argument2, string argument ← Name, string message)	33
		6.3.2.12	IfIsGreater < TArg > (TArg argument1, TArg argument2)	34
		6.3.2.13	IfIsGreater< TArg >(TArg argument1, TArg argument2, string argumentName) .	34
		6.3.2.14	IfIsGreater< TArg >(TArg argument1, TArg argument2, string argumentName, string message)	35
		6.3.2.15	IfIsGreaterOrEqual(IComparable argument1, IComparable argument2)	35
		6.3.2.16	IfIsGreaterOrEqual(IComparable argument1, IComparable argument2, string argumentName)	35
		6.3.2.17	IfIsGreaterOrEqual(IComparable argument1, IComparable argument2, string argumentName, string message)	36
		6.3.2.18	IfIsGreaterOrEqual < TArg > (TArg argument1, TArg argument2)	36

vi

		6.3.2.19	argumentName)	36
		6.3.2.20	IfIsGreaterOrEqual< TArg >(TArg argument1, TArg argument2, string argumentName, string message)	37
		6.3.2.21	IfIsLess(IComparable argument1, IComparable argument2)	37
		6.3.2.22	IfIsLess(IComparable argument1, IComparable argument2, string argumentName)	38
		6.3.2.23	IfIsLess(IComparable argument1, IComparable argument2, string argument ← Name, string message)	38
		6.3.2.24	IfIsLess < TArg >(TArg argument1, TArg argument2)	38
		6.3.2.25	IfIsLess< TArg >(TArg argument1, TArg argument2, string argumentName)	39
		6.3.2.26	IfIsLess< TArg >(TArg argument1, TArg argument2, string argumentName, string message)	39
		6.3.2.27	IfIsLessOrEqual(IComparable argument1, IComparable argument2)	39
		6.3.2.28	IfIsLessOrEqual(IComparable argument1, IComparable argument2, string argumentName)	40
		6.3.2.29	IfIsLessOrEqual(IComparable argument1, IComparable argument2, string argumentName, string message)	40
		6.3.2.30	IfIsLessOrEqual < TArg > (TArg argument1, TArg argument2)	40
		6.3.2.31	IfIsLessOrEqual< TArg >(TArg argument1, TArg argument2, string argument ← Name)	41
		6.3.2.32	IfIsLessOrEqual< TArg >(TArg argument1, TArg argument2, string argument⊷ Name, string message)	41
		6.3.2.33	IfIsNotEqual(IComparable argument1, IComparable argument2)	42
		6.3.2.34	IfIsNotEqual(IComparable argument1, IComparable argument2, string argument ← Name)	42
		6.3.2.35	IfIsNotEqual(IComparable argument1, IComparable argument2, string argument ← Name, string message)	42
		6.3.2.36	IfIsNotEqual < TArg > (TArg argument1, TArg argument2)	43
		6.3.2.37	IfIsNotEqual < TArg > (TArg argument1, TArg argument2, string argumentName)	43
		6.3.2.38	IfIsNotEqual < TArg > (TArg argument1, TArg argument2, string argumentName, string message)	44
		6.3.2.39	IfNot(bool condition, string argumentName=null)	44
		6.3.2.40	IfNot(bool condition, string argumentName, string message)	44
6.4	Pomm	aLabs.Thro	ower.Validation.EmailAddressValidator Class Reference	45
	6.4.1	Detailed	Description	45

CONTENTS vii

	6.4.2	Member	Enumeration Documentation	45
		6.4.2.1	Options	45
	6.4.3	Member	Function Documentation	45
		6.4.3.1	Validate(string emailAddress, Options options=Options.None)	45
6.5			ower.ExceptionHandlers.GenericExceptionHandler< TException > Class Tem-	46
	6.5.1	Detailed	Description	46
	6.5.2	Member	Function Documentation	47
		6.5.2.1	If(bool condition, string message=null)	47
		6.5.2.2	IfNot(bool condition, string message=null)	47
		6.5.2.3	NewWithMessage(string message)	48
6.6	Pomm	aLabs.Thr	ower.HttpException Class Reference	48
	6.6.1	Detailed	Description	49
	6.6.2	Construc	ctor & Destructor Documentation	49
		6.6.2.1	HttpException(HttpStatusCode httpStatusCode)	49
		6.6.2.2	HttpException(HttpStatusCode httpStatusCode, HttpExceptionInfo additionalInfo)	50
		6.6.2.3	HttpException(HttpStatusCode httpStatusCode, string message)	50
		6.6.2.4	HttpException(HttpStatusCode httpStatusCode, string message, HttpException ← Info additionalInfo)	50
		6.6.2.5	HttpException(HttpStatusCode httpStatusCode, string message, Exception innerException)	50
		6.6.2.6	HttpException(HttpStatusCode httpStatusCode, string message, Exception innerException, HttpExceptionInfo additionalInfo)	51
	6.6.3	Property	Documentation	51
		6.6.3.1	DefaultErrorCode	51
		6.6.3.2	DefaultUserMessage	51
		6.6.3.3	ErrorCode	51
		6.6.3.4	HttpStatusCode	51
		6.6.3.5	UserMessage	52
6.7	Pomm	aLabs.Thr	ower.ExceptionHandlers.HttpExceptionHandler Class Reference	52
	6.7.1	Detailed	Description	52
	6.7.2	Member	Function Documentation	52

viii CONTENTS

		6.7.2.1	If(bool condition, HttpStatusCode httpStatusCode, string message=null)	52
		6.7.2.2	If(bool condition, HttpStatusCode httpStatusCode, string message, Http↔ ExceptionInfo additionalInfo)	53
		6.7.2.3	IfNot(bool condition, HttpStatusCode httpStatusCode, string message=null)	53
		6.7.2.4	IfNot(bool condition, HttpStatusCode httpStatusCode, string message, Http⇔ ExceptionInfo additionalInfo)	53
6.8	Pomm	aLabs.Thro	ower.HttpExceptionInfo Struct Reference	54
	6.8.1	Detailed	Description	54
	6.8.2	Construc	tor & Destructor Documentation	54
		6.8.2.1	HttpExceptionInfo(object errorCode=null, string userMessage=null)	54
	6.8.3	Property	Documentation	55
		6.8.3.1	ErrorCode	55
		6.8.3.2	UserMessage	55
6.9	Pomm	aLabs.Thro	ower.ExceptionHandlers.IndexOutOfRangeExceptionHandler Class Reference	55
	6.9.1	Detailed	Description	56
	6.9.2	Member	Function Documentation	56
		6.9.2.1	IfIsEqual(IComparable argument1, IComparable argument2)	56
		6.9.2.2	IfIsEqual(IComparable argument1, IComparable argument2, string message)	57
		6.9.2.3	IfIsEqual < TArg > (TArg argument1, TArg argument2)	57
		6.9.2.4	IfIsEqual < TArg >(TArg argument1, TArg argument2, string message)	57
		6.9.2.5	IfIsGreater(IComparable argument1, IComparable argument2)	58
		6.9.2.6	IfIsGreater(IComparable argument1, IComparable argument2, string message) .	58
		6.9.2.7	IfIsGreater< TArg >(TArg argument1, TArg argument2)	58
		6.9.2.8	IfIsGreater< TArg >(TArg argument1, TArg argument2, string message)	59
		6.9.2.9	IfIsGreaterOrEqual(IComparable argument1, IComparable argument2)	59
		6.9.2.10	IfIsGreaterOrEqual(IComparable argument1, IComparable argument2, string message)	60
		6.9.2.11	IfIsGreaterOrEqual < TArg > (TArg argument1, TArg argument2)	60
		6.9.2.12	IfIsGreaterOrEqual < TArg > (TArg argument1, TArg argument2, string message)	60
		6.9.2.13	IfIsLess(IComparable argument1, IComparable argument2)	61
		6.9.2.14	IfIsLess(IComparable argument1, IComparable argument2, string message)	61
		6.9.2.15	IfIsLess< TArg >(TArg argument1, TArg argument2)	61

CONTENTS

		6.9.2.16	IfIsLess < TArg > (TArg argument1, TArg argument2, string message)	62
		6.9.2.17	IfIsLessOrEqual(IComparable argument1, IComparable argument2)	62
		6.9.2.18	IfIsLessOrEqual(IComparable argument1, IComparable argument2, string message)	63
		6.9.2.19	IfIsLessOrEqual < TArg > (TArg argument1, TArg argument2)	63
		6.9.2.20	IfIsLessOrEqual < TArg > (TArg argument1, TArg argument2, string message) .	63
		6.9.2.21	IfIsNotEqual(IComparable argument1, IComparable argument2)	64
		6.9.2.22	IfIsNotEqual(IComparable argument1, IComparable argument2, string message)	64
		6.9.2.23	IfIsNotEqual < TArg > (TArg argument1, TArg argument2)	64
		6.9.2.24	IfIsNotEqual < TArg > (TArg argument1, TArg argument2, string message)	65
6.10	Pomma	aLabs.Thro	ower.ExceptionHandlers.InvalidOperationExceptionHandler Class Reference	65
	6.10.1	Detailed	Description	66
	6.10.2	Member	Function Documentation	67
		6.10.2.1	NewWithMessage(string message)	67
6.11	Pomma	aLabs.Thro	ower.Reflection.FastMember.Member Class Reference	67
	6.11.1	Detailed	Description	67
	6.11.2	Member	Function Documentation	67
		6.11.2.1	IsDefined(Type attributeType)	67
	6.11.3	Member	Data Documentation	68
		6.11.3.1	Name	68
	6.11.4	Property	Documentation	68
		6.11.4.1	Type	68
6.12	Pomma	aLabs.Thro	ower.Reflection.FastMember.MemberSet Class Reference	68
	6.12.1	Detailed	Description	69
	6.12.2	Member	Function Documentation	69
		6.12.2.1	GetEnumerator()	69
	6.12.3	Member	Data Documentation	69
		6.12.3.1	Count	69
		6.12.3.2	this[int index]	70
6.13	Pomma	aLabs.Thro	ower.ExceptionHandlers.NotSupportedExceptionHandler Class Reference	70
	6.13.1	Detailed	Description	71

CONTENTS

	6.13.2	Member Function Documentation	71
		6.13.2.1 NewWithMessage(string message)	71
6.14	Pomma	Labs.Thrower.Reflection.FastMember.ObjectAccessor Class Reference	71
	6.14.1	Detailed Description	73
	6.14.2	Member Function Documentation	73
		6.14.2.1 Add(string key, object value)	73
		6.14.2.2 Add(KeyValuePair< string, object > item)	74
		6.14.2.3 Clear()	74
		6.14.2.4 Contains(KeyValuePair< string, object > item)	74
		6.14.2.5 ContainsKey(string key)	75
		6.14.2.6 CopyTo(KeyValuePair< string, object >[] array, int arrayIndex)	75
		6.14.2.7 Create(object target)	76
		6.14.2.8 Create(object target, bool allowNonPublicAccessors)	76
		6.14.2.9 Equals(object obj)	76
		6.14.2.10 GetEnumerator()	76
		6.14.2.11 GetHashCode()	77
		6.14.2.12 Remove(string key)	77
		6.14.2.13 Remove(KeyValuePair< string, object > item)	77
		6.14.2.14 ToString()	78
		6.14.2.15 TryGetValue(string key, out object value)	78
	6.14.3	Member Data Documentation	78
		6.14.3.1 IsReadOnly	78
	6.14.4	Property Documentation	79
		6.14.4.1 Count	79
		6.14.4.2 Keys	79
		6.14.4.3 Target	79
		6.14.4.4 this[string name]	79
		6.14.4.5 Values	79
6.15	Pomma	Labs.Thrower.ExceptionHandlers.ObjectDisposedExceptionHandler Class Reference	80
	6.15.1	Detailed Description	80

CONTENTS xi

	6.15.2	Member Function Documentation	80
		6.15.2.1 If(bool disposed, string objectName, string message=null)	80
6.16	Pomma	aLabs.Thrower.Validation.ObjectValidator Class Reference	80
	6.16.1	Detailed Description	81
	6.16.2	Member Function Documentation	81
		6.16.2.1 FormatValidationErrors(IEnumerable< ValidationError > validationErrors, string startMessage=null)	81
		6.16.2.2 Validate(object obj, out IList< ValidationError > validationErrors)	82
	6.16.3	Member Data Documentation	83
		6.16.3.1 RootPlaceholder	83
6.17	Pomma	aLabs.Thrower.Validation.PhoneNumberValidator Class Reference	83
	6.17.1	Detailed Description	83
	6.17.2	Member Function Documentation	83
		6.17.2.1 Validate(string phoneNumber)	83
6.18	Pomma	aLabs.Thrower.Reflection.PortableTypeInfo Class Reference	84
	6.18.1	Detailed Description	85
	6.18.2	Member Function Documentation	86
		6.18.2.1 GetBaseType(Type type)	86
		6.18.2.2 GetConstructors(Type type)	86
		6.18.2.3 GetConstructors< T >()	86
		6.18.2.4 GetCustomAttributes(MemberInfo memberInfo, bool inherit)	87
		6.18.2.5 GetGenericTypeArguments(Type type)	87
		6.18.2.6 GetGenericTypeDefinition(Type type)	88
		6.18.2.7 GetInterfaces(Type type)	88
		6.18.2.8 GetPublicProperties(Type type)	88
		6.18.2.9 GetPublicProperties< T >()	89
		6.18.2.10 GetPublicPropertyValue(object instance, PropertyInfo propertyInfo)	89
		6.18.2.11 GetPublicPropertyValue(TypeAccessor typeAccessor, object instance, Property Info propertyInfo)	90
		6.18.2.12 IsAbstract(Type type)	90
		6.18.2.13 IsAbstract< T >()	90

xii CONTENTS

6.18.2.14 IsAssignableFrom(object obj, Type type)	90
6.18.2.15 IsClass(Type type)	91
6.18.2.16 IsClass< T >()	92
6.18.2.17 IsEnum(Type type)	92
6.18.2.18 IsEnum< T >()	93
6.18.2.19 IsGenericType(Type type)	93
6.18.2.20 IsGenericType< T >()	93
6.18.2.21 IsGenericTypeDefinition(Type type)	94
6.18.2.22 IsGenericTypeDefinition< T >()	94
6.18.2.23 IsInstanceOf(object obj, Type type)	94
6.18.2.24 IsInterface(Type type)	95
6.18.2.25 IsInterface < T >()	95
6.18.2.26 IsPrimitive(Type type)	95
6.18.2.27 IsPrimitive < T >()	96
6.18.2.28 IsValueType(Type type)	96
6.18.2.29 IsValueType< T >()	97
6.19 PommaLabs.Thrower.Raise < TEx > Class Template Reference	97
6.19.1 Detailed Description	97
6.20 PommaLabs.Thrower.Raise < TEx > Class Template Reference	98
6.20.1 Detailed Description	98
6.21 PommaLabs.Thrower.RaiseArgumentException Class Reference	98
6.21.1 Detailed Description	99
6.21.2 Member Function Documentation	100
6.21.2.1 If(bool condition)	100
6.21.2.2 If(bool condition, string argumentName, string message=null)	101
6.21.2.3 IfIsNotValid < TArg > (TArg argument)	101
6.21.2.4 IfIsNotValid < TArg > (TArg argument, string argumentName, string message=nul	l) 102
6.21.2.5 IfIsNotValidEmailAddress(string emailAddress)	103
6.21.2.6 IfIsNotValidEmailAddress(string emailAddress, EmailAddressValidator.Options validatorOptions)	103

CONTENTS xiii

		0.21.2.7	message=null)	104
		6.21.2.8	$If Is Not Valid Email Address (string email Address, string argument Name, Email \hookleftarrow Address Validator. Options validator Options, string message=null) $	104
		6.21.2.9	IfIsNotValidPhoneNumber(string phoneNumber)	105
		6.21.2.10	IfIsNotValidPhoneNumber(string phoneNumber, string argumentName, string message=null)	105
		6.21.2.11	IfIsNullOrEmpty(string value)	106
		6.21.2.12	IfIsNullOrEmpty(string value, string argumentName, string message=null)	106
		6.21.2.13	$If Is Null Or Empty < TI tem > (ICollection < TI tem > value) \\ \ \ldots \\ \ \ldots \\ \ \ldots$	106
		6.21.2.14	$\label{likelihood} \mbox{IfIsNullOrEmpty} < \mbox{Tltem} > \mbox{(ICollection} < \mbox{Tltem} > \mbox{value, string argumentName, string message=null)} \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $	107
		6.21.2.15	IfIsNullOrWhiteSpace(string value)	107
		6.21.2.16	IfIsNullOrWhiteSpace(string value, string argumentName, string message=null) .	107
		6.21.2.17	IfNot(bool condition)	108
		6.21.2.18	IfNot(bool condition, string argumentName, string message=null)	108
6.22	Pomma	aLabs.Thro	wer.RaiseArgumentNullException Class Reference	108
	6.22.1	Detailed I	Description	110
	6.22.2	Member F	Function Documentation	110
		6.22.2.1	IfIsNull< TArg >(TArg argument)	110
		6.22.2.2	IfIsNull < TArg > (TArg argument, string argumentName)	110
		6.22.2.3	$\label{eq:targ_target} \textbf{IfIsNull} < \textbf{TArg} > & (\textbf{TArg argument, string argumentName, string message)} \ . \ . \ . \ .$	111
		6.22.2.4	IfIsNull < TArg > (TArg?argument)	111
		6.22.2.5	IfIsNull < TArg > (TArg?argument, string argumentName)	112
		6.22.2.6	$\label{eq:targeneral} \textbf{IfIsNull} < \textbf{TArg} > & (\textbf{TArg?argument}, \textbf{string argumentName}, \textbf{string message}) \; . \; . \; . \; .$	112
6.23	Pomma	aLabs.Thro	wer.RaiseArgumentOutOfRangeException Class Reference	113
	6.23.1	Detailed I	Description	115
	6.23.2	Member F	Function Documentation	116
		6.23.2.1	If(bool condition, string argumentName=null)	116
		6.23.2.2	If(bool condition, string argumentName, string message)	116
		6.23.2.3	IfIsEqual(IComparable argument1, IComparable argument2)	116
		6.23.2.4	IfIsEqual(IComparable argument1, IComparable argument2, string argumentName) 116

xiv CONTENTS

6.23.2.5	IfIsEqual(IComparable argument1, IComparable argument2, string argument ← Name, string message)	117
6.23.2.6	IfIsEqual < TArg >(TArg argument1, TArg argument2)	117
6.23.2.7	$If Is Equal < TArg > (TArg \ argument 1, \ TArg \ argument 2, \ string \ argument Name) \ . \ .$	117
6.23.2.8	IfIsEqual< TArg >(TArg argument1, TArg argument2, string argumentName, string message)	118
6.23.2.9	IfIsGreater(IComparable argument1, IComparable argument2)	118
6.23.2.10	IfIsGreater(IComparable argument1, IComparable argument2, string argument← Name)	119
6.23.2.11	IfIsGreater(IComparable argument1, IComparable argument2, string argument ← Name, string message)	119
6.23.2.12	IfIsGreater< TArg >(TArg argument1, TArg argument2)	119
6.23.2.13	$If Is Greater < TArg > (TArg\ argument1,\ TArg\ argument2,\ string\ argumentName)\ .$	120
6.23.2.14	IfIsGreater< TArg >(TArg argument1, TArg argument2, string argumentName, string message)	120
6.23.2.15	IfIsGreaterOrEqual(IComparable argument1, IComparable argument2)	121
6.23.2.16	IfIsGreaterOrEqual(IComparable argument1, IComparable argument2, string argumentName)	121
6.23.2.17	IfIsGreaterOrEqual(IComparable argument1, IComparable argument2, string argumentName, string message)	121
6.23.2.18	IfIsGreaterOrEqual < TArg > (TArg argument1, TArg argument2)	121
6.23.2.19	IfIsGreaterOrEqual< TArg >(TArg argument1, TArg argument2, string argumentName)	122
6.23.2.20	IfIsGreaterOrEqual< TArg >(TArg argument1, TArg argument2, string argumentName, string message)	122
6.23.2.21	IfIsLess(IComparable argument1, IComparable argument2)	123
6.23.2.22	IfIsLess(IComparable argument1, IComparable argument2, string argumentName)	123
6.23.2.23	IfIsLess(IComparable argument1, IComparable argument2, string argument← Name, string message)	123
6.23.2.24	IfIsLess< TArg >(TArg argument1, TArg argument2)	124
6.23.2.25	IfIsLess< TArg >(TArg argument1, TArg argument2, string argumentName)	124
6.23.2.26	IfIsLess< TArg >(TArg argument1, TArg argument2, string argumentName, string message)	124
6.23.2.27	IfIsLessOrEqual(IComparable argument1, IComparable argument2)	125
6.23.2.28	IfIsLessOrEqual(IComparable argument1, IComparable argument2, string argumentName)	125

CONTENTS xv

		6.23.2.29	argumentName, string message)	125
		6.23.2.30	IfIsLessOrEqual < TArg > (TArg argument1, TArg argument2)	126
		6.23.2.31	IfIsLessOrEqual< TArg >(TArg argument1, TArg argument2, string argument → Name)	126
		6.23.2.32	IfIsLessOrEqual< TArg >(TArg argument1, TArg argument2, string argument↔ Name, string message)	127
		6.23.2.33	IfIsNotEqual(IComparable argument1, IComparable argument2)	127
		6.23.2.34	IfIsNotEqual(IComparable argument1, IComparable argument2, string argument ← Name)	
		6.23.2.35	IfIsNotEqual(IComparable argument1, IComparable argument2, string argument ← Name, string message)	
		6.23.2.36	IfIsNotEqual < TArg > (TArg argument1, TArg argument2)	128
		6.23.2.37	IfIsNotEqual < TArg > (TArg argument1, TArg argument2, string argumentName)	128
		6.23.2.38	IfIsNotEqual < TArg > (TArg argument1, TArg argument2, string argumentName, string message)	129
		6.23.2.39	IfNot(bool condition, string argumentName=null)	129
		6.23.2.40	IfNot(bool condition, string argumentName, string message)	130
6.24	Pomma	aLabs.Thro	wer.RaiseBase Class Reference	130
	6.24.1	Detailed [Description	131
	6.24.2	Member [Data Documentation	131
		6.24.2.1	NoCtorTypes	131
		6.24.2.2	StrCtorType	132
		6.24.2.3	StrExCtorTypes	132
6.25	Pomma	aLabs.Thro	wer.RaiseHttpException Class Reference	132
	6.25.1	Detailed [Description	132
	6.25.2	Member F	Function Documentation	132
		6.25.2.1	If(bool condition, HttpStatusCode httpStatusCode, string message=null)	132
		6.25.2.2	If(bool condition, HttpStatusCode httpStatusCode, string message, Http⇔ ExceptionInfo additionalInfo)	133
		6.25.2.3	IfNot(bool condition, HttpStatusCode httpStatusCode, string message=null)	133
		6.25.2.4	IfNot(bool condition, HttpStatusCode httpStatusCode, string message, Http⇔ ExceptionInfo additionalInfo)	133
6.26	Pomma	aLabs.Thro	wer.RaiseIndexOutOfRangeException Class Reference	134

xvi CONTENTS

	6.26.1	Detailed Description	135
	6.26.2	Member Function Documentation	136
		6.26.2.1 IfIsEqual(IComparable argument1, IComparable argument2)	136
		6.26.2.2 IfIsEqual(IComparable argument1, IComparable argument2, string message)	136
		6.26.2.3 IfIsEqual < TArg > (TArg argument1, TArg argument2)	136
		6.26.2.4 IfIsEqual < TArg > (TArg argument1, TArg argument2, string message)	137
		6.26.2.5 IfIsGreater(IComparable argument1, IComparable argument2)	137
		6.26.2.6 IfIsGreater(IComparable argument1, IComparable argument2, string message) .	137
		6.26.2.7 IfIsGreater < TArg > (TArg argument1, TArg argument2)	138
		6.26.2.8 IfIsGreater < TArg > (TArg argument1, TArg argument2, string message)	138
		6.26.2.9 IfIsGreaterOrEqual(IComparable argument1, IComparable argument2)	138
		6.26.2.10 IfIsGreaterOrEqual(IComparable argument1, IComparable argument2, string message)	139
		6.26.2.11 IfIsGreaterOrEqual< TArg >(TArg argument1, TArg argument2)	139
		6.26.2.12 IfIsGreaterOrEqual< TArg >(TArg argument1, TArg argument2, string message)	139
		6.26.2.13 IfIsLess(IComparable argument1, IComparable argument2)	140
		6.26.2.14 IfIsLess(IComparable argument1, IComparable argument2, string message)	140
		6.26.2.15 IfIsLess< TArg >(TArg argument1, TArg argument2)	140
		6.26.2.16 IfIsLess< TArg >(TArg argument1, TArg argument2, string message)	141
		6.26.2.17 IfIsLessOrEqual(IComparable argument1, IComparable argument2)	141
		6.26.2.18 IfIsLessOrEqual(IComparable argument1, IComparable argument2, string message)	142
		6.26.2.19 IfIsLessOrEqual< TArg >(TArg argument1, TArg argument2)	142
		6.26.2.20 IfIsLessOrEqual < TArg > (TArg argument1, TArg argument2, string message) .	142
		6.26.2.21 IfIsNotEqual(IComparable argument1, IComparable argument2)	143
		6.26.2.22 IfIsNotEqual(IComparable argument1, IComparable argument2, string message)	143
		6.26.2.23 IfIsNotEqual < TArg > (TArg argument1, TArg argument2)	143
		6.26.2.24 IfIsNotEqual < TArg > (TArg argument1, TArg argument2, string message)	144
6.27	Pomma	Labs.Thrower.RaiseInvalidOperationException Class Reference	144
	6.27.1	Detailed Description	145
	6.27.2	Member Function Documentation	146

CONTENTS xvii

		6.27.2.1 If(bool condition, string message=null)	6
		6.27.2.2 IfNot(bool condition, string message=null)	6
6.28	Pomma	aLabs.Thrower.RaiseNotSupportedException Class Reference	6
	6.28.1	Detailed Description	7
	6.28.2	Member Function Documentation	7
		6.28.2.1 If(bool condition, string message=null)	7
		6.28.2.2 IfNot(bool condition, string message=null)	8
6.29	Pomma	aLabs.Thrower.RaiseObjectDisposedException Class Reference	8
	6.29.1	Detailed Description	9
	6.29.2	Member Function Documentation	9
		6.29.2.1 If(bool disposed, string objectName, string message=null)	9
6.30	Pomma	aLabs.Thrower.Reflection.FastMember.TypeAccessor.RuntimeTypeAccessor Class Reference 14	9
	6.30.1	Detailed Description	1
	6.30.2	Member Function Documentation	1
		6.30.2.1 GetMembers()	1
	6.30.3	Member Data Documentation	1
		6.30.3.1 GetMembersSupported	1
	6.30.4	Property Documentation	1
		6.30.4.1 Type	1
6.31	Pomma	aLabs.Thrower.ThrowerException Class Reference	2
	6.31.1	Detailed Description	2
6.32	Pomma	aLabs.Thrower.Reflection.FastMember.TypeAccessor Class Reference	3
	6.32.1	Detailed Description	4
	6.32.2	Member Function Documentation	4
		6.32.2.1 Create(Type type)	4
		6.32.2.2 Create(Type type, bool allowNonPublicAccessors)	4
		6.32.2.3 Create< T >()	5
		6.32.2.4 Create < T > (bool allowNonPublicAccessors)	5
		6.32.2.5 CreateNew()	5
		6.32.2.6 GetMembers()	5

xviii CONTENTS

		6.32.3	Member D	ta Documentation			 	155
			6.32.3.1	reateNewSupported			 	155
			6.32.3.2	etMembersSupported			 	156
		6.32.4	Property I	ocumentation			 	156
			6.32.4.1	is[object target, string name]			 	156
	6.33	Pomma	aLabs.Thro	er.Validation.ValidateAttribute Cla	ss Reference		 	156
		6.33.1	Detailed D	scription			 	157
		6.33.2	Property I	ocumentation			 	157
			6.33.2.1	ollectionItemsMaxCount			 	157
			6.33.2.2	ollectionItemsMinCount			 	157
			6.33.2.3	numerable			 	157
			6.33.2.4	numerableItemsRequired			 	158
			6.33.2.5	equired			 	158
	6.34	Pomma	aLabs.Thro	er.Validation.ValidationError Struc	t Reference		 	158
		6.34.1	Detailed D	scription			 	158
		6.34.2	Property I	ocumentation			 	158
			6.34.2.1	ath			 	158
			6.34.2.2	eason			 	158
7	File I	Docume	entation					159
	7.1	Except	ionHandler	ArgumentExceptionHandler.cs Fil	e Reference		 	159
	7.2	Argume	entException	Handler.cs			 	159
	7.3	Except	ionHandler	ArgumentNullExceptionHandler.c	s File Reference		 	162
	7.4	Argume	entNullExce	tionHandler.cs			 	162
	7.5	Except	ionHandler	ArgumentOutOfRangeExceptionI-	landler.cs File Referenc	ce	 	164
	7.6	Argume	entOutOfRa	geExceptionHandler.cs			 	164
	7.7	Except	ionHandler	GenericExceptionHandler.cs File	Reference		 	169
	7.8	Generi	cException	andler.cs			 	170
	7.9	Except	ionHandler	HttpExceptionHandler.cs File Ref	erence		 	170
	7.10	HttpEx	ceptionHan	er.cs			 	171
	7.11	Except	ionHandler	IndexOutOfRangeExceptionHand	ler.cs File Reference		 	172

CONTENTS xix

7.12	IndexOutOfRangeExceptionHandler.cs	172
7.13	ExceptionHandlers/InvalidOperationExceptionHandler.cs File Reference	175
7.14	InvalidOperationExceptionHandler.cs	176
7.15	ExceptionHandlers/NotSupportedExceptionHandler.cs File Reference	176
7.16	NotSupportedExceptionHandler.cs	176
7.17	ExceptionHandlers/ObjectDisposedExceptionHandler.cs File Reference	177
7.18	ObjectDisposedExceptionHandler.cs	177
7.19	HttpException.cs File Reference	178
7.20	HttpException.cs	178
7.21	Obsolete/Raise.cs File Reference	180
7.22	Raise.cs	180
7.23	Raise.cs File Reference	191
7.24	Raise.cs	192
7.25	Obsolete/RaiseArgumentException.cs File Reference	192
7.26	RaiseArgumentException.cs	193
7.27	Obsolete/RaiseArgumentNullException.cs File Reference	196
7.28	RaiseArgumentNullException.cs	197
7.29	Obsolete/RaiseArgumentOutOfRangeException.cs File Reference	198
7.30	RaiseArgumentOutOfRangeException.cs	198
7.31	Obsolete/RaiseHttpException.cs File Reference	206
7.32	RaiseHttpException.cs	207
7.33	Obsolete/RaiseIndexOutOfRangeException.cs File Reference	208
7.34	RaiseIndexOutOfRangeException.cs	208
7.35	Obsolete/RaiseInvalidOperationException.cs File Reference	213
7.36	RaiseInvalidOperationException.cs	213
7.37	Obsolete/RaiseNotSupportedException.cs File Reference	214
7.38	RaiseNotSupportedException.cs	214
7.39	Obsolete/RaiseObjectDisposedException.cs File Reference	215
7.40	RaiseObjectDisposedException.cs	215
7.41	RaiseGeneric.cs File Reference	216

CONTENTS

7.42	RaiseGeneric.cs	216
7.43	Reflection/FastMember/CallSiteCache.cs File Reference	218
7.44	CallSiteCache.cs	218
7.45	Reflection/FastMember/MemberSet.cs File Reference	219
7.46	MemberSet.cs	220
7.47	Reflection/FastMember/ObjectAccessor.cs File Reference	221
7.48	ObjectAccessor.cs	221
7.49	Reflection/FastMember/ObjectReader.cs File Reference	224
7.50	ObjectReader.cs	224
7.51	Reflection/FastMember/TypeAccessor.cs File Reference	228
7.52	TypeAccessor.cs	228
7.53	Reflection/PortableSerializationAttributes.cs File Reference	233
7.54	PortableSerializationAttributes.cs	233
7.55	Reflection/PortableTypeInfo.cs File Reference	234
7.56	PortableTypeInfo.cs	234
7.57	ThrowerException.cs File Reference	239
7.58	ThrowerException.cs	240
7.59	Validation/EmailAddressValidator.cs File Reference	240
7.60	EmailAddressValidator.cs	241
7.61	Validation/ObjectValidator.cs File Reference	244
7.62	ObjectValidator.cs	245
7.63	Validation/PhoneNumberValidator.cs File Reference	247
7.64	PhoneNumberValidator.cs	247
7.65	Validation/ValidateAttribute.cs File Reference	248
7.66	ValidateAttribute.cs	248
7.67	Validation/ValidationError.cs File Reference	249
7.68	ValidationError.cs	249

Index

251

Chapter 1

Namespace Index

1.1 Packages

Here are the packages with brief descriptions (if available):

PommaLabs	
PommaLabs.Thrower	
PommaLabs.Thrower.ExceptionHandlers	. 1
PommaLabs.Thrower.Reflection	. 1
PommaLabs.Thrower.Reflection.FastMember	. 1
PommaLabs.Thrower.Validation	. 1

2 Namespace Index

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

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

PommaLabs.Thrower.ExceptionHandlers.ArgumentExceptionHandler
PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler
Attribute
PommaLabs.Thrower.Validation.ValidateAttribute
PommaLabs.Thrower.Validation.EmailAddressValidator
Exception
PommaLabs.Thrower.HttpException
PommaLabs.Thrower.ThrowerException
PommaLabs.Thrower.ExceptionHandlers.GenericExceptionHandler< TException >
PommaLabs.Thrower.ExceptionHandlers.GenericExceptionHandler< InvalidOperationException > 46
PommaLabs.Thrower.ExceptionHandlers.InvalidOperationExceptionHandler
PommaLabs.Thrower.ExceptionHandlers.GenericExceptionHandler< NotSupportedException > 46
PommaLabs.Thrower.ExceptionHandlers.NotSupportedExceptionHandler
PommaLabs.Thrower.ExceptionHandlers.HttpExceptionHandler
PommaLabs.Thrower.HttpExceptionInfo
IDictionary
PommaLabs.Thrower.Reflection.FastMember.ObjectAccessor
IEnumerable
PommaLabs.Thrower.Reflection.FastMember.MemberSet
IList
PommaLabs.Thrower.Reflection.FastMember.MemberSet
PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeExceptionHandler
PommaLabs.Thrower.Reflection.FastMember
PommaLabs.Thrower.ExceptionHandlers.ObjectDisposedExceptionHandler 80
PommaLabs.Thrower.Validation.ObjectValidator
PommaLabs.Thrower.Validation.PhoneNumberValidator
PommaLabs.Thrower.Reflection.PortableTypeInfo
$PommaLabs. Thrower. Raise < TEx > \dots $
PommaLabs.Thrower.RaiseBase
PommaLabs.Thrower.Raise< TEx >
PommaLabs.Thrower.RaiseArgumentException
PommaLabs.Thrower.RaiseArgumentNullException
PommaLabs.Thrower.RaiseArgumentOutOfRangeException
PommaLabs.Thrower.RaiseIndexOutOfRangeException

Hierarchical Index

PommaLabs.Thrower.RaiseInvalidOperationException	 144
PommaLabs.Thrower.RaiseNotSupportedException	 146
PommaLabs.Thrower.RaiseObjectDisposedException	 148
PommaLabs.Thrower.RaiseHttpException	 . 132
PommaLabs.Thrower.Reflection.FastMember.TypeAccessor	 . 153
PommaLabs.Thrower.Reflection.FastMember.TypeAccessor.RuntimeTypeAccessor	 149
Pommal abs Thrower Validation Validation Error	158

Chapter 3

Class Index

3.1 Class List

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

PommaLabs. I hrower. Exception Handlers. Argument Exception Handler	
Handler for ArgumentException	13
PommaLabs.Thrower.ExceptionHandlers.ArgumentNullExceptionHandler	
Handler for ArgumentNullException	23
PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler	
Handler for System.ArgumentOutOfRangeException	28
PommaLabs.Thrower.Validation.EmailAddressValidator	
An email address validator	45
PommaLabs.Thrower.ExceptionHandlers.GenericExceptionHandler< TException >	
Generic handler used for common exceptions like NotSupportedException.	46
PommaLabs.Thrower.HttpException	
Represents an exception which contains an error message that should be delivered through the	
HTTP response, using given status code.	48
PommaLabs.Thrower.ExceptionHandlers.HttpExceptionHandler	
Handler for HttpException	52
PommaLabs.Thrower.HttpExceptionInfo	
Additional info which will be included into HttpException.	54
PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeExceptionHandler	
Handler for System.IndexOutOfRangeException	55
PommaLabs.Thrower.ExceptionHandlers.InvalidOperationExceptionHandler	
Handler for InvalidOperationException	65
PommaLabs.Thrower.Reflection.FastMember.Member	
Represents an abstracted view of an individual member defined for a type	67
PommaLabs.Thrower.Reflection.FastMember.MemberSet	
Represents an abstracted view of the members defined for a type	68
PommaLabs.Thrower.ExceptionHandlers.NotSupportedExceptionHandler	
Handler for NotSupportedException	70
PommaLabs.Thrower.Reflection.FastMember.ObjectAccessor	
Represents an individual object, allowing access to members by-name.	71
PommaLabs.Thrower.ExceptionHandlers.ObjectDisposedExceptionHandler	
Handler for ObjectDisposedException	80
PommaLabs.Thrower.Validation.ObjectValidator	
Validates an object public properties that have been decorated with the ValidateAttribute custom	
attribute	80
PommaLabs.Thrower.Validation.PhoneNumberValidator	
A phone number validator.	83

6 Class Index

PommaLabs.Thrower.Reflection.PortableTypeInfo	
Portable version of some useful reflection methods	84
PommaLabs.Thrower.Raise< TEx >	
Contains methods that throw specified exception <i>TEx</i> if given conditions will be verified	98
PommaLabs.Thrower.Raise< TEx >	
New exception handling mechanism, which is more fluent than the old ones	98
PommaLabs.Thrower.RaiseArgumentException	
Utility methods which can be used to handle bad arguments	98
PommaLabs.Thrower.RaiseArgumentNullException	
Utility methods which can be used to handle null references.	108
PommaLabs.Thrower.RaiseArgumentOutOfRangeException	
Utility methods which can be used to handle ranges.	113
PommaLabs.Thrower.RaiseBase	
Stores items shared by various Raise <tex> instances</tex>	130
PommaLabs.Thrower.RaiseHttpException	
Utility methods which can be used to handle error codes through HTTP.	132
PommaLabs.Thrower.RaiseIndexOutOfRangeException	
Utility methods which can be used to handle indexes.	134
PommaLabs.Thrower.RaiseInvalidOperationException	
Utility methods which can be used to handle bad object states.	144
PommaLabs.Thrower.RaiseNotSupportedException	
Utility methods which can be used to handle unsupported operations.	146
PommaLabs.Thrower.RaiseObjectDisposedException	
Utility methods which can be used to handle bad object states.	148
PommaLabs.Thrower.Reflection.FastMember.TypeAccessor.RuntimeTypeAccessor	
A TypeAccessor based on a Type implementation, with available member metadata	149
PommaLabs.Thrower.ThrowerException	
Exception thrown by Raise <tex> when the type parameter passed to that class has something</tex>	
invalid (missing constructors, etc)	152
PommaLabs.Thrower.Reflection.FastMember.TypeAccessor	
Provides by-name member-access to objects of a given type	153
PommaLabs.Thrower.Validation.ValidateAttribute	
Indicates that the property should be validated.	156
PommaLabs.Thrower.Validation.ValidationError	
Represents an error found while validating an object.	158

Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

HttpException.cs
Raise.cs
RaiseGeneric.cs
ThrowerException.cs
ExceptionHandlers/ArgumentExceptionHandler.cs
ExceptionHandlers/ArgumentNullExceptionHandler.cs
ExceptionHandlers/ArgumentOutOfRangeExceptionHandler.cs
ExceptionHandlers/GenericExceptionHandler.cs
ExceptionHandlers/HttpExceptionHandler.cs
ExceptionHandlers/IndexOutOfRangeExceptionHandler.cs
ExceptionHandlers/InvalidOperationExceptionHandler.cs
ExceptionHandlers/NotSupportedExceptionHandler.cs
ExceptionHandlers/ObjectDisposedExceptionHandler.cs
Obsolete/Raise.cs
Obsolete/RaiseArgumentException.cs
Obsolete/RaiseArgumentNullException.cs
Obsolete/RaiseArgumentOutOfRangeException.cs
Obsolete/RaiseHttpException.cs
Obsolete/RaiseIndexOutOfRangeException.cs
Obsolete/RaiseInvalidOperationException.cs
Obsolete/RaiseNotSupportedException.cs
Obsolete/RaiseObjectDisposedException.cs
Reflection/PortableSerializationAttributes.cs
Reflection/PortableTypeInfo.cs
Reflection/FastMember/CallSiteCache.cs
Reflection/FastMember/MemberSet.cs
Reflection/FastMember/ObjectAccessor.cs
Reflection/FastMember/ObjectReader.cs
Reflection/FastMember/TypeAccessor.cs
Validation/EmailAddressValidator.cs
Validation/ObjectValidator.cs
Validation/PhoneNumberValidator.cs
Validation/ValidateAttribute.cs
Validation/ValidationError cs 249

8 File Index

Chapter 5

Namespace Documentation

5.1 PommaLabs Namespace Reference

Namespaces

· namespace Thrower

5.2 PommaLabs.Thrower Namespace Reference

Namespaces

- namespace ExceptionHandlers
- namespace Reflection
- namespace Validation

Classes

class HttpException

Represents an exception which contains an error message that should be delivered through the HTTP response, using given status code.

• struct HttpExceptionInfo

Additional info which will be included into HttpException.

· class Raise

New exception handling mechanism, which is more fluent than the old ones.

• class RaiseArgumentException

Utility methods which can be used to handle bad arguments.

class RaiseArgumentNullException

Utility methods which can be used to handle null references.

· class RaiseArgumentOutOfRangeException

Utility methods which can be used to handle ranges.

class RaiseBase

Stores items shared by various Raise< TEx> instances.

• class RaiseHttpException

Utility methods which can be used to handle error codes through HTTP.

· class RaiseIndexOutOfRangeException

Utility methods which can be used to handle indexes.

class RaiseInvalidOperationException

Utility methods which can be used to handle bad object states.

class RaiseNotSupportedException

Utility methods which can be used to handle unsupported operations.

· class RaiseObjectDisposedException

Utility methods which can be used to handle bad object states.

· class ThrowerException

Exception thrown by Raise<TEx> when the type parameter passed to that class has something invalid (missing constructors, etc).

5.3 PommaLabs.Thrower.ExceptionHandlers Namespace Reference

Classes

· class ArgumentExceptionHandler

Handler for ArgumentException

· class ArgumentNullExceptionHandler

Handler for ArgumentNullException.

class ArgumentOutOfRangeExceptionHandler

Handler for System.ArgumentOutOfRangeException

class GenericExceptionHandler

Generic handler used for common exceptions like NotSupportedException.

class HttpExceptionHandler

Handler for HttpException

· class IndexOutOfRangeExceptionHandler

Handler for System.IndexOutOfRangeException

· class InvalidOperationExceptionHandler

Handler for InvalidOperationException.

class NotSupportedExceptionHandler

Handler for NotSupportedException.

class ObjectDisposedExceptionHandler

Handler for ObjectDisposedException.

5.4 PommaLabs.Thrower.Reflection Namespace Reference

Namespaces

• namespace FastMember

Classes

class PortableTypeInfo

Portable version of some useful reflection methods.

5.5 PommaLabs.Thrower.Reflection.FastMember Namespace Reference

Classes

- · class CallSiteCache
- · class Member

Represents an abstracted view of an individual member defined for a type.

class MemberSet

Represents an abstracted view of the members defined for a type.

· class ObjectAccessor

Represents an individual object, allowing access to members by-name.

· class ObjectReader

Provides a means of reading a sequence of objects as a data-reader, for example for use with SqlBulkCopy or other data-base oriented code

class TypeAccessor

Provides by-name member-access to objects of a given type.

5.6 PommaLabs.Thrower.Validation Namespace Reference

Classes

· class EmailAddressValidator

An email address validator.

· class ObjectValidator

Validates an object public properties that have been decorated with the ValidateAttribute custom attribute.

• class PhoneNumberValidator

A phone number validator.

· class ValidateAttribute

Indicates that the property should be validated.

struct ValidationError

Represents an error found while validating an object.

Chapter 6

Class Documentation

6.1 PommaLabs.Thrower.ExceptionHandlers.ArgumentExceptionHandler Class Reference

Handler for ArgumentException

Public Member Functions

· void If (bool condition)

Throws ArgumentException if given condition is true.

· void If (bool condition, string argumentName, string message=null)

Throws ArgumentException if given condition is true.

void IfNot (bool condition)

Throws ArgumentException if given condition is false.

· void IfNot (bool condition, string argumentName, string message=null)

Throws ArgumentException if given condition is false.

void IfIsNotValid< TArg > (TArg argument)

Throws ArgumentException if given argument is not valid.

void IfIsNotValid < TArg > (TArg argument, string argumentName, string message=null)

Throws ArgumentException if given argument is not valid.

void IfIsNotValidEmailAddress (string emailAddress)

Throws ArgumentException if given string is not a valid email address.

void IfIsNotValidEmailAddress (string emailAddress, EmailAddressValidator.Options validatorOptions)

Throws ArgumentException if given string is not a valid email address.

void IfIsNotValidEmailAddress (string emailAddress, string argumentName, string message=null)

Throws ArgumentException if given string is not a valid email address.

void IfIsNotValidEmailAddress (string emailAddress, string argumentName, EmailAddressValidator.Options validatorOptions, string message=null)

Throws ArgumentException if given string is not a valid email address.

void IfIsNotValidPhoneNumber (string phoneNumber)

Throws ArgumentException if given string is not a valid phone number.

• void IfIsNotValidPhoneNumber (string phoneNumber, string argumentName, string message=null)

Throws ArgumentException if given string is not a valid phone number.

void IfIsNullOrEmpty (string value)

Throws ArgumentException if given string is null or empty.

14 Class Documentation

void IfIsNullOrEmpty (string value, string argumentName, string message=null)

Throws ArgumentException if given string is null or empty.

• void IfIsNullOrWhiteSpace (string value)

Throws ArgumentException if given string is null, empty or blank.

· void IfIsNullOrWhiteSpace (string value, string argumentName, string message=null)

Throws ArgumentException if given string is null, empty or blank.

void IfIsNullOrEmpty< TItem > (ICollection< TItem > value)

Throws ArgumentException if given collection is null or empty.

• void IfIsNullOrEmpty< TItem > (ICollection< TItem > value, string argumentName, string message=null)

Throws ArgumentException if given collection is null or empty.

6.1.1 Detailed Description

Handler for ArgumentException

Definition at line 35 of file ArgumentExceptionHandler.cs.

6.1.2 Member Function Documentation

6.1.2.1 void PommaLabs.Thrower.ExceptionHandlers.ArgumentExceptionHandler.If (bool condition)

Throws ArgumentException if given condition is true.

Parameters

condition	The condition.
-----------	----------------

Exceptions

ArgumentException	If given condition is true.

Definition at line 46 of file ArgumentExceptionHandler.cs.

6.1.2.2 void PommaLabs.Thrower.ExceptionHandlers.ArgumentExceptionHandler.If (bool condition, string argumentName, string message = null)

Throws ArgumentException if given condition is true.

Parameters

condition	The condition.
argumentName	The name of the argument.
message	The message.

Exceptions

given condition is true.

message and argumentName are strictly required arguments.

Definition at line 64 of file ArgumentExceptionHandler.cs.

 $6.1.2.3 \quad \text{void PommaLabs.Thrower.} \textbf{ExceptionHandlers.} \textbf{ArgumentExceptionHandler.} \textbf{IflsNotValid} < \textbf{TArg} > \textbf{(TArg} \ \textit{argument} \ \textbf{)}$

Throws ArgumentException if given argument is not valid.

Template Parameters

may me type of the argument.	TArg	The type of the argument.
------------------------------	------	---------------------------

Parameters

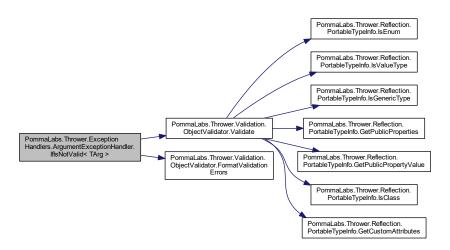
The argument.

Exceptions

ArgumentException	If given argument is not valid.
-------------------	---------------------------------

Definition at line 117 of file ArgumentExceptionHandler.cs.

Here is the call graph for this function:



6.1.2.4 void PommaLabs.Thrower.ExceptionHandlers.ArgumentExceptionHandler.IfIsNotValid < TArg > (TArg argument, string argumentName, string message = null)

Throws ArgumentException if given argument is not valid.

16 Class Documentation

Template Parameters

TArg The type of the arg	gument.
--------------------------	---------

Parameters

argument	The argument.
argumentName	The name of the argument.
message	The message.

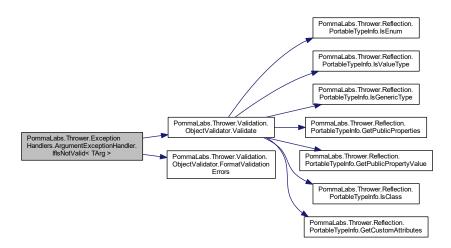
Exceptions

A	rgumentException	If given argument is not valid.	
---	------------------	---------------------------------	--

message and argumentName are strictly required arguments.

Definition at line 137 of file ArgumentExceptionHandler.cs.

Here is the call graph for this function:



6.1.2.5 void PommaLabs.Thrower.ExceptionHandlers.ArgumentExceptionHandler.IfIsNotValidEmailAddress (string emailAddress)

Throws ArgumentException if given string is not a valid email address.

Parameters

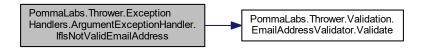
emailAddress	An email address.

Exceptions

ArgumentException	If given string is not a valid email address.	
-------------------	---	--

Definition at line 157 of file ArgumentExceptionHandler.cs.

Here is the call graph for this function:



6.1.2.6 void PommaLabs.Thrower.ExceptionHandlers.ArgumentExceptionHandler.IfIsNotValidEmailAddress (string emailAddress, EmailAddressValidator.Options validatorOptions)

Throws ArgumentException if given string is not a valid email address.

Parameters

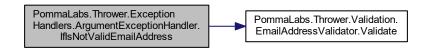
emailAddress	An email address.
validatorOptions	Customizations for the validation process.

Exceptions

ArgumentException	If given string is not a valid email address.
-------------------	---

Definition at line 172 of file ArgumentExceptionHandler.cs.

Here is the call graph for this function:



6.1.2.7 void PommaLabs.Thrower.ExceptionHandlers.ArgumentExceptionHandler.IfIsNotValidEmailAddress (string emailAddress, string argumentName, string message = null)

Throws ArgumentException if given string is not a valid email address.

Parameters

emailAddress	An email address.
argumentName	The name of the argument.
message	The message.

Exceptions

ArgumentException If give	n string is not a valid email address.
---------------------------	--

message and argumentName are strictly required arguments.

Definition at line 191 of file ArgumentExceptionHandler.cs.

Here is the call graph for this function:



6.1.2.8 void PommaLabs.Thrower.ExceptionHandlers.ArgumentExceptionHandler.IfIsNotValidEmailAddress (string emailAddress, string argumentName, EmailAddressValidator.Options validatorOptions, string message = null)

Throws ArgumentException if given string is not a valid email address.

Parameters

emailAddress	An email address.
argumentName	The name of the argument.
validatorOptions	Customizations for the validation process.
message	The message.

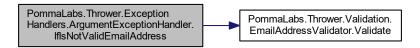
Exceptions

ArgumentException	If given string is not a valid email address.
,	5

message and argumentName are strictly required arguments.

Definition at line 211 of file ArgumentExceptionHandler.cs.

Here is the call graph for this function:



6.1.2.9 void PommaLabs.Thrower.ExceptionHandlers.ArgumentExceptionHandler.IfIsNotValidPhoneNumber (string phoneNumber)

Throws ArgumentException if given string is not a valid phone number.

Parameters

phoneNumber	A phone number.
-------------	-----------------

Exceptions

ArgumentException	If given string is not a valid phone number.
-------------------	--

Definition at line 231 of file ArgumentExceptionHandler.cs.

Here is the call graph for this function:



6.1.2.10 void PommaLabs.Thrower.ExceptionHandlers.ArgumentExceptionHandler.IfIsNotValidPhoneNumber (string phoneNumber, string argumentName, string message = null)

Throws ArgumentException if given string is not a valid phone number.

phoneNumber	A phone number.
argumentName	The name of the argument.
message	The message.

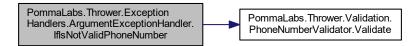
Exceptions

ArgumentException	If given string is not a valid phone number.
-------------------	--

message and argumentName are strictly required arguments.

Definition at line 250 of file ArgumentExceptionHandler.cs.

Here is the call graph for this function:



6.1.2.11 void PommaLabs.Thrower.ExceptionHandlers.ArgumentExceptionHandler.IfIsNullOrEmpty (string value)

Throws ArgumentException if given string is null or empty.

Parameters

value	The string value.
	, ,

Exceptions

ArgumentException	If given string is null or empty.

Definition at line 271 of file ArgumentExceptionHandler.cs.

6.1.2.12 void PommaLabs.Thrower.ExceptionHandlers.ArgumentExceptionHandler.IfIsNullOrEmpty (string value, string argumentName, string message = null)

Throws ArgumentException if given string is null or empty.

Parameters

value	The string value.
argumentName	The name of the argument.
message	The optional message.

Exceptions

ArgumentException	If given string is null or empty.

message and argumentName are strictly required arguments.

Definition at line 289 of file ArgumentExceptionHandler.cs.

6.1.2.13 void PommaLabs.Thrower.ExceptionHandlers.ArgumentExceptionHandler.IfIsNuIIOrEmpty< Titem > (ICollection< Titem > value)

Throws ArgumentException if given collection is null or empty.

Template Parameters

TItem	The type of the items contained in the collection.
-------	--

Parameters

value	The collection.
-------	-----------------

Exceptions

Definition at line 340 of file ArgumentExceptionHandler.cs.

6.1.2.14 void PommaLabs.Thrower.ExceptionHandlers.ArgumentExceptionHandler.IfIsNullOrEmpty< TItem > (ICollection< TItem > value, string argumentName, string message = null)

Throws ArgumentException if given collection is null or empty.

Template Parameters

The type of the items contained in the collection.
--

Parameters

value	The collection.
argumentName	The name of the argument.
message	The optional message.

Exceptions

ArgumentException If given collection is null or empty.

message and argumentName are strictly required arguments.

Definition at line 359 of file ArgumentExceptionHandler.cs.

6.1.2.15 void PommaLabs.Thrower.ExceptionHandlers.ArgumentExceptionHandler.IfIsNullOrWhiteSpace (string value)

Throws ArgumentException if given string is null, empty or blank.

Parameters

value The string value

Exceptions

ArgumentException If given string is null, empty or blank

Definition at line 302 of file ArgumentExceptionHandler.cs.

6.1.2.16 void PommaLabs.Thrower.ExceptionHandlers.ArgumentExceptionHandler.IfIsNullOrWhiteSpace (string value, string argumentName, string message = null)

Throws ArgumentException if given string is null, empty or blank.

Parameters

value	The string value.
argumentName	The name of the argument.
message	The optional message.

Exceptions

ArgumentException	If given string is null, empty or blank.
-------------------	--

message and argumentName are strictly required arguments.

Definition at line 320 of file ArgumentExceptionHandler.cs.

6.1.2.17 void PommaLabs.Thrower.ExceptionHandlers.ArgumentExceptionHandler.IfNot (bool condition)

Throws ArgumentException if given condition is false.

Parameters

condition	The condition.

Exceptions

ArgumentException	If given condition is false.

Definition at line 81 of file ArgumentExceptionHandler.cs.

6.1.2.18 void PommaLabs.Thrower.ExceptionHandlers.ArgumentExceptionHandler.IfNot (bool condition, string argumentName, string message = null)

Throws ArgumentException if given condition is false.

Parameters

condition	The condition.
argumentName	The name of the argument.
message	The message.

Exceptions

ArgumentException	If given condition is false.
3	9

message and argumentName are strictly required arguments.

Definition at line 99 of file ArgumentExceptionHandler.cs.

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

ExceptionHandlers/ArgumentExceptionHandler.cs

6.2 PommaLabs.Thrower.ExceptionHandlers.ArgumentNullExceptionHandler Class Reference

Handler for ArgumentNullException.

Public Member Functions

void If (bool condition)

Throws ArgumentNullException if given condition is true.

• void If (bool condition, string argumentName, string message=null)

Throws ArgumentException if given condition is true.

void IfIsNull < TArg > (TArg argument)

Throws ArgumentNullException if given argument if null.

void IfIsNull< TArg > (TArg argument, string argumentName, string message=null)

Throws ArgumentNullException if given argument if null.

void IfIsNull < TArg > (TArg?argument)

Throws ArgumentNullException if given argument if null.

void IfIsNull < TArg > (ref TArg?argument)

Throws ArgumentNullException if given argument if null.

void IfIsNull< TArg > (TArg?argument, string argumentName, string message=null)

Throws ArgumentNullException if given argument if null.

void IfIsNull < TArg > (ref TArg?argument, string argumentName, string message=null)

Throws ArgumentNullException if given argument if null.

6.2.1 Detailed Description

Handler for ArgumentNullException.

Definition at line 34 of file ArgumentNullExceptionHandler.cs.

6.2.2 Member Function Documentation

6.2.2.1 void PommaLabs.Thrower.ExceptionHandlers.ArgumentNullExceptionHandler.If (bool condition)

Throws ArgumentNullException if given condition is true.

Parameters

condition	The condition.
Condition	The condition.

Exceptions

ArgumentNullException	If given condition is true.
-----------------------	-----------------------------

Definition at line 45 of file ArgumentNullExceptionHandler.cs.

6.2.2.2 void PommaLabs.Thrower.ExceptionHandlers.ArgumentNullExceptionHandler.If (bool *condition*, string *argumentName*, string *message* = null)

Throws ArgumentException if given condition is true.

Parameters

condition	The condition.
argumentName	The name of the argument.
message	The message.

Exceptions

ArgumentNullException	If given condition is true.
-----------------------	-----------------------------

message and argumentName are strictly required arguments.

Definition at line 63 of file ArgumentNullExceptionHandler.cs.

6.2.2.3 void PommaLabs.Thrower.ExceptionHandlers.ArgumentNullExceptionHandler.IfIsNull < TArg > (TArg argument)

Throws ArgumentNullException if given argument if null.

Template Parameters

TArg	The type of the argument.
------	---------------------------

Parameters

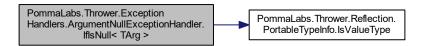
argument The argument.	argument
------------------------	----------

Exceptions

ArgumentNullException	If given argument is null.
-----------------------	----------------------------

Definition at line 81 of file ArgumentNullExceptionHandler.cs.

Here is the call graph for this function:



6.2.2.4 void PommaLabs.Thrower.ExceptionHandlers.ArgumentNullExceptionHandler.IfIsNull < TArg > (TArg argument, string argumentName, string message = null)

Throws ArgumentNullException if given argument if null.

Template Parameters

TArg	The type of the argument.
------	---------------------------

Parameters

argument	The argument.	
argumentName	The name of the argument.	
message	The message that should be put into the exception	

Exceptions

ArgumentNullException	If given argument is null.
-----------------------	----------------------------

Definition at line 97 of file ArgumentNullExceptionHandler.cs.

Here is the call graph for this function:



 $6.2.2.5 \quad \text{void PommaLabs.} Thrower. \textbf{ExceptionHandlers.} Argument \textbf{NullExceptionHandler.} If \textbf{IsNull} < \textbf{TArg} > \textbf{(TArg? } \textit{argument} \textbf{)}$

Throws ArgumentNullException if given argument if null.

Template Parameters

Parameters

argument The argu

Exceptions

ArgumentNullEvcention	If given argument has no value.
ArgumentivuniLxception	i given argument has no value.

Type Constraints

TArg: struct

Definition at line 115 of file ArgumentNullExceptionHandler.cs.

 $6.2.2.6 \quad \text{void PommaLabs.} Thrower. \textbf{ExceptionHandlers.} Argument \textbf{NullExceptionHandler.} If \textbf{IsNull} < \textbf{TArg} > (\ \textbf{ref TArg?} \ \textbf{argument} \ \textbf{)}$

Throws ArgumentNullException if given argument if null.

Template Parameters

TArg	The type of the nullable argument.

argument	The argument, by reference.
----------	-----------------------------

Exceptions

ArgumentNullException If given argument has no value.

Type Constraints

TArg: struct

Definition at line 130 of file ArgumentNullExceptionHandler.cs.

6.2.2.7 void PommaLabs.Thrower.ExceptionHandlers.ArgumentNullExceptionHandler.IfIsNull< TArg > (TArg? argument, string argumentName, string message = null)

Throws ArgumentNullException if given argument if null.

Template Parameters

Parameters

argument	The argument.
argumentName	The name of the argument.
message	The message that should be put into the exception.

Exceptions

$\Delta ranment Null - veention$	If given argument has no value.
Aiguillelitivullexception	in given argument has no value.

Type Constraints

TArg: struct

Definition at line 147 of file ArgumentNullExceptionHandler.cs.

6.2.2.8 void PommaLabs.Thrower.ExceptionHandlers.ArgumentNullExceptionHandler.IfIsNull< TArg > (ref TArg? argument, string argumentName, string message = null)

Throws ArgumentNullException if given argument if null.

Template Parameters

TArg	The type of the nullable argument.
------	------------------------------------

Parameters

argument	The argument, by reference.
argumentName	The name of the argument.
message	The message that should be put into the exception.

Exceptions

ArgumentNullException	If given argument has no value.
-----------------------	---------------------------------

Type Constraints

TArg: struct

Definition at line 164 of file ArgumentNullExceptionHandler.cs.

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

• ExceptionHandlers/ArgumentNullExceptionHandler.cs

6.3 PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler Class Reference

Handler for System.ArgumentOutOfRangeException

Public Member Functions

· void If (bool condition, string argumentName=null)

Throws ArgumentOutOfRangeException if given condition is true.

void If (bool condition, string argumentName, string message)

Throws ArgumentOutOfRangeException if given condition is true.

void IfNot (bool condition, string argumentName=null)

Throws ArgumentOutOfRangeException if given condition is false.

• void IfNot (bool condition, string argumentName, string message)

Throws ArgumentOutOfRangeException if given condition is false.

void lflsLess< TArg > (TArg argument1, TArg argument2)

Throws ArgumentOutOfRangeException if argument1 is less than argument2.

· void IfIsLess (IComparable argument1, IComparable argument2)

Throws ArgumentOutOfRangeException if argument1 is less than argument2 .

void IfIsLess < TArg > (TArg argument1, TArg argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is less than argument2.

void IfIsLess (IComparable argument1, IComparable argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is less than argument2.

void IfIsLess < TArg > (TArg argument1, TArg argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is less than argument2.

• void IfIsLess (IComparable argument1, IComparable argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is less than argument2.

void IfIsLessOrEqual < TArg > (TArg argument1, TArg argument2)

Throws ArgumentOutOfRangeException if argument1 is less than or equal to argument2.

void IfIsLessOrEqual (IComparable argument1, IComparable argument2)

Throws ArgumentOutOfRangeException if argument1 is less than or equal to argument2.

void IfIsLessOrEqual < TArg > (TArg argument1, TArg argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is less than or equal to argument2.

void IfIsLessOrEqual (IComparable argument1, IComparable argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is less than or equal to argument2.

void IfIsLessOrEqual < TArg > (TArg argument1, TArg argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is less than or equal to argument2.

void IfIsLessOrEqual (IComparable argument1, IComparable argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is less than or equal to argument2.

void lflsGreater< TArg > (TArg argument1, TArg argument2)

Throws ArgumentOutOfRangeException if argument1 is greater than argument2.

void IfIsGreater (IComparable argument1, IComparable argument2)

Throws ArgumentOutOfRangeException if argument1 is greater than argument2.

• void IfIsGreater < TArg > (TArg argument1, TArg argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is greater than argument2.

void IfIsGreater (IComparable argument1, IComparable argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is greater than argument2.

• void IfIsGreater < TArg > (TArg argument1, TArg argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is greater than argument2.

void IfIsGreater (IComparable argument1, IComparable argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is greater than argument2.

void IfIsGreaterOrEqual < TArg > (TArg argument1, TArg argument2)

Throws ArgumentOutOfRangeException if argument1 is greater than or equal to argument2 .

void IfIsGreaterOrEqual (IComparable argument1, IComparable argument2)

Throws ArgumentOutOfRangeException if argument1 is greater than or equal to argument2.

void IfIsGreaterOrEqual < TArg > (TArg argument1, TArg argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is greater than or equal to argument2.

• void IfIsGreaterOrEqual (IComparable argument1, IComparable argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is greater than or equal to argument2.

• void IfIsGreaterOrEqual < TArg > (TArg argument1, TArg argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is greater than or equal to argument2.

 void IfIsGreaterOrEqual (IComparable argument1, IComparable argument2, string argumentName, string message)

 $Throws\ Argument Out Of Range Exception\ if\ argument 1\ is\ greater\ than\ or\ equal\ to\ argument 2\ .$

void lflsEqual < TArg > (TArg argument1, TArg argument2)

Throws ArgumentOutOfRangeException if argument1 is equal to argument2.

• void IfIsEqual (IComparable argument1, IComparable argument2)

Throws ArgumentOutOfRangeException if argument1 is equal to argument2.

void IfIsEqual < TArg > (TArg argument1, TArg argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is equal to argument2.

• void IfIsEqual (IComparable argument1, IComparable argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is equal to argument2.

void IfIsEqual < TArg > (TArg argument1, TArg argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is equal to argument2.

• void IfIsEqual (IComparable argument1, IComparable argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is equal to argument2.

void IfIsNotEqual < TArg > (TArg argument1, TArg argument2)

Throws ArgumentOutOfRangeException if argument1 is not equal to argument2.

• void IfIsNotEqual (IComparable argument1, IComparable argument2)

Throws ArgumentOutOfRangeException if argument1 is not equal to argument2.

void IfIsNotEqual < TArg > (TArg argument1, TArg argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is not equal to argument2.

• void IfIsNotEqual (IComparable argument1, IComparable argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is not equal to argument2.

void IfIsNotEqual < TArg > (TArg argument1, TArg argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is not equal to argument2.

• void IfIsNotEqual (IComparable argument1, IComparable argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is not equal to argument2.

6.3.1 Detailed Description

Handler for System.ArgumentOutOfRangeException

Definition at line 33 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2 Member Function Documentation

6.3.2.1 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.If (bool condition, string argumentName = null)

Throws ArgumentOutOfRangeException if given condition is true.

Parameters

condition	The condition.
argumentName	The optional name of the argument.

Definition at line 42 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.2 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.If (bool condition, string argumentName, string message)

Throws ArgumentOutOfRangeException if given condition is true.

Parameters

condition	The condition.
argumentName	The name of the argument.
message	The message.

message and argumentName are strictly required arguments.

Definition at line 59 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.3 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIsEqual (IComparable argument1, IComparable argument2)

Throws ArgumentOutOfRangeException if argument1 is equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Definition at line 559 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.4 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIsEqual (IComparable argument1, IComparable argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.

Definition at line 595 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.5 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIsEqual (IComparable argument1, IComparable argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName The name of the argument.	
message	The message that should be put into the exception.

Definition at line 633 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.6 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIsEqual < TArg > (TArg argument1, TArg argument2)

Throws ArgumentOutOfRangeException if argument1 is equal to argument2.

Template Parameters

TArg	The type of the arguments.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 544 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.7 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIsEqual < TArg > (TArg argument1, TArg argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is equal to argument2.

Template Parameters

TArg The type of the arguments.

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 579 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.8 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIsEqual < TArg > (TArg argument1, TArg argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is equal to argument2.

Template Parameters

TArg The type of the arguments

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.

Parameters

message	The message that should be put into the exception.
---------	--

Type Constraints

TArg: IComparable<TArg>

Definition at line 616 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.9 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIsGreater (IComparable argument1, IComparable argument2)

Throws ArgumentOutOfRangeException if argument1 is greater than argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Definition at line 343 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.10 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIsGreater (IComparable argument1, IComparable argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is greater than argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.

Definition at line 379 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.11 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIsGreater (IComparable argument1, IComparable argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is greater than argument2.

argument1	The left side argument.
argument2	The right side argument.
argumentName The name of the argument.	
message	The message that should be put into the exception.

Definition at line 417 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.12 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIs← Greater < TArg > (TArg argument1, TArg argument2)

Throws ArgumentOutOfRangeException if argument1 is greater than argument2.

Template Parameters

TArg	The type of the arguments.
------	----------------------------

Parameters

argument1	The left side argument.
argument2	The right side argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 328 of file ArgumentOutOfRangeExceptionHandler.cs.

```
6.3.2.13 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeException ← Handler.IfIsGreater < TArg > ( TArg argument1, TArg argument2, string argumentName )
```

Throws ArgumentOutOfRangeException if argument1 is greater than argument2.

Template Parameters

TArg	The type of the arguments.

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 363 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.14 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler. ← IfIsGreater < TArg > (TArg argument1, TArg argument2, string argumentName, string message

Throws ArgumentOutOfRangeException if argument1 is greater than argument2.

Template Parameters

TArg The type of the argument

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName The name of the argument.	
message	The message that should be put into the exception.

Type Constraints

TArg: IComparable<TArg>

Definition at line 400 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.15 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIsGreaterOrEqual (IComparable argument1, IComparable argument2)

Throws ArgumentOutOfRangeException if argument1 is greater than or equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Definition at line 451 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.16 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIsGreaterOrEqual (IComparable argument1, IComparable argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is greater than or equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.

Definition at line 487 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.17 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIsGreaterOrEqual (
IComparable argument1, IComparable argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is greater than or equal to argument2.

Parameters

argument1	The left side argument.	
argument2	The right side argument.	
argumentName	The name of the argument.	
message	The message that should be put into the exception.	

Definition at line 525 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.18 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIs← GreaterOrEqual < TArg > (TArg argument1, TArg argument2)

Throws ArgumentOutOfRangeException if argument1 is greater than or equal to argument2.

Template Parameters

TArg	The type of the arguments.
------	----------------------------

Parameters

argument1	The left side argument.
argument2	The right side argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 436 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.19 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeException ← Handler.IfIsGreaterOrEqual < TArg > (TArg argument1, TArg argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is greater than or equal to argument2.

Template Parameters

TArg	The type of the arguments.
------	----------------------------

argument1	The left side argument.
-----------	-------------------------

Parameters

argument2	The right side argument.
argumentName	The name of the argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 471 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.20 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIs ← GreaterOrEqual < TArg > (TArg argument1, TArg argument2, string argumentName, string message

Throws ArgumentOutOfRangeException if argument1 is greater than or equal to argument2.

Template Parameters

TArg	The type of the arguments.
------	----------------------------

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.
message	The message that should be put into the exception.

Type Constraints

TArg: IComparable<TArg>

Definition at line 508 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.21 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIsLess (IComparable argument1, IComparable argument2)

Throws ArgumentOutOfRangeException if argument1 is less than argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Definition at line 127 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.22 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIsLess (IComparable argument1, IComparable argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is less than argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.

Definition at line 163 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.23 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIsLess (IComparable argument1, IComparable argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is less than argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.
message	The message that should be put into the exception.

Definition at line 201 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.24 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIsLess< TArg > (TArg argument1, TArg argument2)

Throws ArgumentOutOfRangeException if argument1 is less than argument2.

Template Parameters

TAra	The type of the arguments.
9	ind type of the digaments.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 112 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.25 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIsLess< TArg > (TArg argument1, TArg argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is less than argument2.

Template Parameters

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 147 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.26 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIsLess< TArg > (TArg argument1, TArg argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is less than argument2.

Template Parameters

TArg	The type of the arguments.
------	----------------------------

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.
message	The message that should be put into the exception.

Type Constraints

TArg: IComparable<TArg>

Definition at line 184 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.27 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIsLessOrEqual (IComparable argument1, IComparable argument2)

Throws ArgumentOutOfRangeException if argument1 is less than or equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Definition at line 235 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.28 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIsLessOrEqual (IComparable argument1, IComparable argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is less than or equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.

Definition at line 271 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.29 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIsLessOrEqual (IComparable argument1, IComparable argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is less than or equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.
message	The message that should be put into the exception.

Definition at line 309 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.30 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIsLess← OrEqual < TArg > (TArg argument1, TArg argument2)

Throws ArgumentOutOfRangeException if argument1 is less than or equal to argument2.

Template Parameters

TArg The type of the arguments.

argument1 The left side argument.

Parameters

argument2	The right side argument.
-----------	--------------------------

Type Constraints

TArg: IComparable<TArg>

Definition at line 220 of file ArgumentOutOfRangeExceptionHandler.cs.

```
6.3.2.31 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeException ←
        Handler.IfIsLessOrEqual < TArg > ( TArg argument1, TArg argument2, string argumentName
```

Throws ArgumentOutOfRangeException if argument1 is less than or equal to argument2.

Template Parameters

TArg The type of the argumen

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 255 of file ArgumentOutOfRangeExceptionHandler.cs.

```
6.3.2.32 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.If ←
         Is Less Or Equal < TArg > ( \ TArg \ argument 1, \ TArg \ argument 2, \ string \ argument Name, \ string \ message
         )
```

Throws ArgumentOutOfRangeException if argument1 is less than or equal to argument2.

Template Parameters

TArg	The type of the arguments.

argument1	The left side argument.
argument2	The right side argument.

Parameters

argumentName	The name of the argument.
message	The message that should be put into the exception.

Type Constraints

TArg: IComparable<TArg>

Definition at line 292 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.33 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIsNotEqual (IComparable argument1, IComparable argument2)

Throws ArgumentOutOfRangeException if argument1 is not equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Definition at line 667 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.34 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIsNotEqual (IComparable argument1, IComparable argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is not equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.

Definition at line 703 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.35 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIsNotEqual (IComparable argument1, IComparable argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is not equal to argument2.

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.
message	The message that should be put into the exception.

Definition at line 741 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.36 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfIsNot⊷ Equal < TArg > (TArg argument1, TArg argument2)

Throws ArgumentOutOfRangeException if argument1 is not equal to argument2.

Template Parameters

TArg The type of the arguments.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 652 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.37 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeException ← Handler.IfIsNotEqual < TArg > (TArg argument1, TArg argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is not equal to argument2.

Template Parameters

TArg	The type of the arguments.

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 687 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.38 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.← IfIsNotEqual < TArg > (TArg argument1, TArg argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is not equal to argument2.

Template Parameters

TArg	The type of the arguments.
9	

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.
message	The message that should be put into the exception.

Type Constraints

TArg: IComparable<TArg>

Definition at line 724 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.39 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfNot (bool *condition*, string argumentName = null)

Throws ArgumentOutOfRangeException if given condition is false.

Parameters

condition	The condition.
argumentName	The optional name of the argument.

Definition at line 76 of file ArgumentOutOfRangeExceptionHandler.cs.

6.3.2.40 void PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler.IfNot (bool *condition*, string *argumentName*, string *message*)

Throws ArgumentOutOfRangeException if given condition is false.

Parameters

condition	The condition.
argumentName	The name of the argument.
message	The message.

message and argumentName are strictly required arguments.

Definition at line 93 of file ArgumentOutOfRangeExceptionHandler.cs.

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

• ExceptionHandlers/ArgumentOutOfRangeExceptionHandler.cs

6.4 PommaLabs.Thrower.Validation.EmailAddressValidator Class Reference

An email address validator.

Public Types

enum Options { Options.None = 0, Options.AllowInternational = 1, Options.AllowTopLevelDomains = 2 }
 Options used by validation process.

Static Public Member Functions

static bool Validate (string emailAddress, Options options=Options.None)
 Validates the specified email address.

6.4.1 Detailed Description

An email address validator.

An email address validator.

Definition at line 30 of file EmailAddressValidator.cs.

6.4.2 Member Enumeration Documentation

6.4.2.1 enum PommaLabs.Thrower.Validation.EmailAddressValidator.Options [strong]

Options used by validation process.

Enumerator

None No option specified.

AllowInternational Whether the validator should allow international characters or not.

AllowTopLevelDomains Whether the validator should allow addresses at top-level domains or not.

Definition at line 337 of file EmailAddressValidator.cs.

6.4.3 Member Function Documentation

6.4.3.1 static bool PommaLabs.Thrower.Validation.EmailAddressValidator.Validate (string *emailAddress*, Options *options* = Options.None) [static]

Validates the specified email address.

Validates the syntax of an email address.

If options contains Options.AllowInternational, then the validator will use the newer International Email standards for validating the email address.

Returns

true if the email address is valid; otherwise false.

Parameters

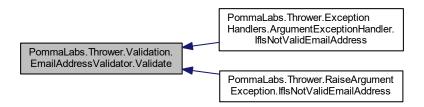
emailAddress	An email address.
options	Customizations for the validation process.

Exceptions

System.ArgumentNullException	emailAddress is null.
------------------------------	-----------------------

Definition at line 265 of file EmailAddressValidator.cs.

Here is the caller graph for this function:



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

· Validation/EmailAddressValidator.cs

6.5 PommaLabs.Thrower.ExceptionHandlers.GenericExceptionHandler< TException > Class Template Reference

Generic handler used for common exceptions like NotSupportedException.

Public Member Functions

• void If (bool condition, string message=null)

Throws TException if given condition is true.

void IfNot (bool condition, string message=null)

Throws TException if given condition is false.

Protected Member Functions

abstract TException NewWithMessage (string message)
 Creates an exception with given message.

6.5.1 Detailed Description

Generic handler used for common exceptions like NotSupportedException.

Template Parameters

TException	The type of the handled exception.
------------	------------------------------------

Type Constraints

TException : Exception
TException : new()

Definition at line 32 of file GenericExceptionHandler.cs.

6.5.2 Member Function Documentation

6.5.2.1 void PommaLabs.Thrower.ExceptionHandlers.GenericExceptionHandler< TException >.lf (bool condition, string message = null)

Throws *TException* if given condition is true.

Parameters

condition	The condition.
message	The optional message.

Exceptions

Exception	If given condition is true, an exception of type <i>TException</i> is thrown.

Definition at line 56 of file GenericExceptionHandler.cs.

6.5.2.2 void PommaLabs.Thrower.ExceptionHandlers.GenericExceptionHandler< TException >.lfNot (bool condition, string message = null)

Throws *TException* if given condition is false.

Parameters

condition	The condition.
message	The optional message.

Exceptions

Exception	If given condition is true, an exception of type <i>TException</i> is thrown.

Definition at line 72 of file GenericExceptionHandler.cs.

6.5.2.3 abstract TException PommaLabs.Thrower.ExceptionHandlers.GenericExceptionHandler< TException >.NewWithMessage (string message) [protected], [pure virtual]

Creates an exception with given message.

Parameters

message	The message used by the exception.
---------	------------------------------------

Returns

An exception with given message.

 $Implemented \ in \ PommaLabs. Thrower. Exception Handlers. Invalid Operation Exception Handler, \ and \ PommaLabs. \\ \leftarrow Thrower. Exception Handlers. Not Supported Exception Handler.$

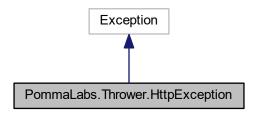
The documentation for this class was generated from the following file:

• ExceptionHandlers/GenericExceptionHandler.cs

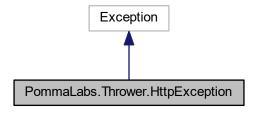
6.6 PommaLabs.Thrower.HttpException Class Reference

Represents an exception which contains an error message that should be delivered through the HTTP response, using given status code.

Inheritance diagram for PommaLabs.Thrower.HttpException:



Collaboration diagram for PommaLabs.Thrower.HttpException:



Public Member Functions

• HttpException (HttpStatusCode httpStatusCode)

Builds the exception using given status code.

HttpException (HttpStatusCode httpStatusCode, HttpExceptionInfo additionalInfo)

Builds the exception using given status code.

• HttpException (HttpStatusCode httpStatusCode, string message)

Builds the exception using given status code and message.

• HttpException (HttpStatusCode httpStatusCode, string message, HttpExceptionInfo additionalInfo)

Builds the exception using given status code, message and error code.

• HttpException (HttpStatusCode httpStatusCode, string message, Exception innerException)

Builds the exception using given status code, message and inner exception.

HttpException (HttpStatusCode httpStatusCode, string message, Exception innerException, HttpException ← Info additionalInfo)

Builds the exception using given status code, message, error code and inner exception.

Properties

HttpStatusCode HttpStatusCode [get]

The HTTP status code assigned to this exception.

object ErrorCode [get]

The application defined error code.

• static object DefaultErrorCode [get, set]

The default application defined error code, used when none has been specified.

• string UserMessage = "unspecified" [get]

An error message which can be shown to the user.

• static string DefaultUserMessage [get, set]

The default user message.

6.6.1 Detailed Description

Represents an exception which contains an error message that should be delivered through the HTTP response, using given status code.

Definition at line 70 of file HttpException.cs.

6.6.2 Constructor & Destructor Documentation

6.6.2.1 PommaLabs.Thrower.HttpException.HttpException (HttpStatusCode httpStatusCode)

Builds the exception using given status code.

Parameters

httpStatusCode	The HTTP status code.
----------------	-----------------------

Definition at line 76 of file HttpException.cs.

6.6.2.2 PommaLabs.Thrower.HttpException.HttpException (HttpStatusCode httpStatusCode, HttpExceptionInfo additionalInfo)

Builds the exception using given status code.

Parameters

httpStatusCode	The HTTP status code.
additionalInfo	Additional exception info.

Definition at line 86 of file HttpException.cs.

6.6.2.3 PommaLabs.Thrower.HttpException.HttpException (HttpStatusCode httpStatusCode, string message)

Builds the exception using given status code and message.

Parameters

httpStatusCode	The HTTP status code.
message	The exception message.

Definition at line 100 of file HttpException.cs.

6.6.2.4 PommaLabs.Thrower.HttpException.HttpException (HttpStatusCode httpStatusCode, string message, HttpExceptionInfo additionalInfo)

Builds the exception using given status code, message and error code.

Parameters

httpStatusCode	The HTTP status code.
message	The exception message.
additionalInfo	Additional exception info.

Definition at line 111 of file HttpException.cs.

6.6.2.5 PommaLabs.Thrower.HttpException.HttpException (HttpStatusCode httpStatusCode, string message, Exception innerException)

Builds the exception using given status code, message and inner exception.

httpStatusCode	The HTTP status code.
message	The exception message.
innerException	The inner exception.

Definition at line 127 of file HttpException.cs.

6.6.2.6 PommaLabs.Thrower.HttpException.HttpException (HttpStatusCode httpStatusCode, string message, Exception innerException, HttpExceptionInfo additionalInfo)

Builds the exception using given status code, message, error code and inner exception.

Parameters

httpStatusCode	The HTTP status code.
message	The exception message.
innerException	The inner exception.
additionalInfo	Additional exception info.

Definition at line 139 of file HttpException.cs.

6.6.3 Property Documentation

6.6.3.1 object PommaLabs.Thrower.HttpException.DefaultErrorCode [static], [get], [set]

The default application defined error code, used when none has been specified.

Definition at line 162 of file HttpException.cs.

6.6.3.2 string PommaLabs.Thrower.HttpException.DefaultUserMessage [static],[get],[set]

The default user message.

Definition at line 172 of file HttpException.cs.

6.6.3.3 object PommaLabs.Thrower.HttpException.ErrorCode [get]

The application defined error code.

Definition at line 157 of file HttpException.cs.

6.6.3.4 HttpStatusCode PommaLabs.Thrower.HttpException.HttpStatusCode [get]

The HTTP status code assigned to this exception.

Definition at line 152 of file HttpException.cs.

6.6.3.5 string PommaLabs.Thrower.HttpException.UserMessage = "unspecified" [get]

An error message which can be shown to the user.

Definition at line 167 of file HttpException.cs.

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

· HttpException.cs

6.7 PommaLabs.Thrower.ExceptionHandlers.HttpExceptionHandler Class Reference

Handler for HttpException

Public Member Functions

- void If (bool condition, HttpStatusCode httpStatusCode, string message=null)
 Throws HttpException if given condition is true.
- void If (bool condition, HttpStatusCode httpStatusCode, string message, HttpExceptionInfo additionalInfo)

 Throws HttpException if given condition is true.
- void IfNot (bool condition, HttpStatusCode httpStatusCode, string message=null)
 Throws HttpException if given condition is false.
- void IfNot (bool condition, HttpStatusCode httpStatusCode, string message, HttpExceptionInfo additionalInfo)

 Throws HttpException if given condition is false.

6.7.1 Detailed Description

Handler for HttpException

Definition at line 33 of file HttpExceptionHandler.cs.

6.7.2 Member Function Documentation

6.7.2.1 void PommaLabs.Thrower.ExceptionHandlers.HttpExceptionHandler.If (bool condition, HttpStatusCode httpStatusCode, string message = null)

Throws HttpException if given condition is true.

condition	The condition.
httpStatusCode	The HTTP status code corresponding to the error.
message	The optional message.

Exceptions

HttpException If given condition is true.

Definition at line 42 of file HttpExceptionHandler.cs.

6.7.2.2 void PommaLabs.Thrower.ExceptionHandlers.HttpExceptionHandler.If (bool condition, HttpStatusCode httpStatusCode, string message, HttpExceptionInfo additionalInfo)

Throws HttpException if given condition is true.

Parameters

condition	The condition.
httpStatusCode	The HTTP status code corresponding to the error.
message	The required message.
additionalInfo	Additional exception info.

Exceptions

Definition at line 58 of file HttpExceptionHandler.cs.

6.7.2.3 void PommaLabs.Thrower.ExceptionHandlers.HttpExceptionHandler.IfNot (bool condition, HttpStatusCode httpStatusCode, string message = null)

Throws HttpException if given condition is false.

Parameters

condition	The condition.
httpStatusCode	The HTTP status code corresponding to the error.
message	The optional message.

Exceptions

HttpException	If given condition is false.

Definition at line 73 of file HttpExceptionHandler.cs.

6.7.2.4 void PommaLabs.Thrower.ExceptionHandlers.HttpExceptionHandler.lfNot (bool condition, HttpStatusCode httpStatusCode, string message, HttpExceptionInfo additionalInfo)

Throws HttpException if given condition is false.

Parameters

condition	The condition.
httpStatusCode	The HTTP status code corresponding to the error.
message	The required message.
additionalInfo	Additional exception info.

Exceptions

Definition at line 89 of file HttpExceptionHandler.cs.

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

• ExceptionHandlers/HttpExceptionHandler.cs

6.8 PommaLabs.Thrower.HttpExceptionInfo Struct Reference

Additional info which will be included into HttpException.

Public Member Functions

HttpExceptionInfo (object errorCode=null, string userMessage=null)
 Builds the additional exception info.

Properties

- object ErrorCode [get, set]
 - The application defined error code.
- string UserMessage [get, set]

An error message which can be shown to user.

6.8.1 Detailed Description

Additional info which will be included into HttpException.

Definition at line 38 of file HttpException.cs.

6.8.2 Constructor & Destructor Documentation

6.8.2.1 PommaLabs.Thrower.HttpExceptionInfo.HttpExceptionInfo (object errorCode = null, string userMessage = null)

Builds the additional exception info.

Parameters

errorCode	The application defined error code.
userMessage	The user message.

Definition at line 45 of file HttpException.cs.

6.8.3 Property Documentation

6.8.3.1 object PommaLabs.Thrower.HttpExceptionInfo.ErrorCode [get], [set]

The application defined error code.

Definition at line 55 of file HttpException.cs.

6.8.3.2 string PommaLabs.Thrower.HttpExceptionInfo.UserMessage [get], [set]

An error message which can be shown to user.

Definition at line 61 of file HttpException.cs.

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

HttpException.cs

6.9 PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeExceptionHandler Class Reference

Handler for System.IndexOutOfRangeException

Public Member Functions

void lflsLess< TArg > (TArg argument1, TArg argument2)

Throws IndexOutOfRangeException if argument1 is less than argument2.

• void IfIsLess (IComparable argument1, IComparable argument2)

Throws IndexOutOfRangeException if argument1 is less than argument2.

• void IfIsLess< TArg > (TArg argument1, TArg argument2, string message)

Throws IndexOutOfRangeException if argument1 is less than argument2.

void IfIsLess (IComparable argument1, IComparable argument2, string message)

Throws IndexOutOfRangeException if argument1 is less than argument2.

void IfIsLessOrEqual < TArg > (TArg argument1, TArg argument2)

Throws IndexOutOfRangeException if argument1 is less than or equal to argument2.

void IfIsLessOrEqual (IComparable argument1, IComparable argument2)

Throws IndexOutOfRangeException if argument1 is less than or equal to argument2.

void lflsLessOrEqual < TArg > (TArg argument1, TArg argument2, string message)

Throws IndexOutOfRangeException if argument1 is less than or equal to argument2.

void IfIsLessOrEqual (IComparable argument1, IComparable argument2, string message)

Throws IndexOutOfRangeException if argument1 is less than or equal to argument2.

void IfIsGreater < TArg > (TArg argument1, TArg argument2)

Throws IndexOutOfRangeException if argument1 is greater than argument2.

void IfIsGreater (IComparable argument1, IComparable argument2)

Throws IndexOutOfRangeException if argument1 is greater than argument2.

• void IfIsGreater < TArg > (TArg argument1, TArg argument2, string message)

Throws IndexOutOfRangeException if argument1 is greater than argument2.

void IfIsGreater (IComparable argument1, IComparable argument2, string message)

Throws IndexOutOfRangeException if argument1 is greater than argument2.

void IfIsGreaterOrEqual< TArg > (TArg argument1, TArg argument2)

Throws IndexOutOfRangeException if argument1 is greater than or equal to argument2.

• void IfIsGreaterOrEqual (IComparable argument1, IComparable argument2)

Throws IndexOutOfRangeException if argument1 is greater than or equal to argument2.

void IfIsGreaterOrEqual < TArg > (TArg argument1, TArg argument2, string message)

Throws IndexOutOfRangeException if argument1 is greater than or equal to argument2.

void IfIsGreaterOrEqual (IComparable argument1, IComparable argument2, string message)

Throws IndexOutOfRangeException if argument1 is greater than or equal to argument2.

void lflsEqual< TArg > (TArg argument1, TArg argument2)

Throws IndexOutOfRangeException if argument1 is equal to argument2.

void IfIsEqual (IComparable argument1, IComparable argument2)

Throws IndexOutOfRangeException if argument1 is equal to argument2.

void lflsEqual < TArg > (TArg argument1, TArg argument2, string message)

Throws IndexOutOfRangeException if argument1 is equal to argument2.

• void IfIsEqual (IComparable argument1, IComparable argument2, string message)

Throws IndexOutOfRangeException if argument1 is equal to argument2.

void lflsNotEqual < TArg > (TArg argument1, TArg argument2)

Throws IndexOutOfRangeException if argument1 is not equal to argument2.

void IfIsNotEqual (IComparable argument1, IComparable argument2)

Throws IndexOutOfRangeException if argument1 is not equal to argument2.

void lflsNotEqual < TArg > (TArg argument1, TArg argument2, string message)

Throws IndexOutOfRangeException if argument1 is not equal to argument2.

• void IfIsNotEqual (IComparable argument1, IComparable argument2, string message)

Throws IndexOutOfRangeException if argument1 is not equal to argument2.

6.9.1 Detailed Description

Handler for System.IndexOutOfRangeException

Definition at line 33 of file IndexOutOfRangeExceptionHandler.cs.

6.9.2 Member Function Documentation

6.9.2.1 void PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeExceptionHandler.IfIsEqual (IComparable argument1, IComparable argument2)

Throws IndexOutOfRangeException if argument1 is equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Definition at line 339 of file IndexOutOfRangeExceptionHandler.cs.

6.9.2.2 void PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeExceptionHandler.IfIsEqual (IComparable *argument1*, IComparable *argument2*, string *message*)

Throws IndexOutOfRangeException if argument1 is equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
message	The message that should be put into the exception.

Definition at line 375 of file IndexOutOfRangeExceptionHandler.cs.

6.9.2.3 void PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeExceptionHandler.IfIsEqual < TArg > (TArg argument1, TArg argument2)

Throws IndexOutOfRangeException if argument1 is equal to argument2.

Template Parameters

TArg	The type of the arguments.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 324 of file IndexOutOfRangeExceptionHandler.cs.

 $\hbox{6.9.2.4} \quad \hbox{void PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeExceptionHandler.IfIsEqual} < \hbox{TArg} > \\ \qquad \qquad (\ \hbox{TArg} \ \textit{argument1}, \ \hbox{TArg} \ \textit{argument2}, \ \hbox{string} \ \textit{message} \)$

Throws IndexOutOfRangeException if argument1 is equal to argument2.

Template Parameters

TArg	The type of the arguments.
------	----------------------------

Parameters

argument1	The left side argument.	
argument2	The right side argument.	
message	The message that should be put into the exception.	

Type Constraints

TArg: IComparable<TArg>

Definition at line 359 of file IndexOutOfRangeExceptionHandler.cs.

6.9.2.5 void PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeExceptionHandler.IfIsGreater (IComparable argument1, IComparable argument2)

Throws IndexOutOfRangeException if argument1 is greater than argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Definition at line 199 of file IndexOutOfRangeExceptionHandler.cs.

6.9.2.6 void PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeExceptionHandler.IfIsGreater (IComparable argument1, IComparable argument2, string message)

Throws IndexOutOfRangeException if argument1 is greater than argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
message	The message that should be put into the exception.

Definition at line 235 of file IndexOutOfRangeExceptionHandler.cs.

6.9.2.7 void PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeExceptionHandler.IfIsGreater < TArg > (TArg argument1, TArg argument2)

Throws IndexOutOfRangeException if argument1 is greater than argument2.

Template Parameters

TArg	The type of the arguments.
TArg	The type of the arguments.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 184 of file IndexOutOfRangeExceptionHandler.cs.

6.9.2.8 void PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeExceptionHandler.IfIsGreater < TArg > (TArg argument1, TArg argument2, string message)

Throws IndexOutOfRangeException if argument1 is greater than argument2.

Template Parameters

TArg	The type of the arguments.
------	----------------------------

Parameters

	argument1	The left side argument.
Ī	argument2	The right side argument.
Ī	message	The message that should be put into the exception.

Type Constraints

TArg: IComparable<TArg>

Definition at line 219 of file IndexOutOfRangeExceptionHandler.cs.

6.9.2.9 void PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeExceptionHandler.IfIsGreaterOrEqual (IComparable argument1, IComparable argument2)

Throws IndexOutOfRangeException if argument1 is greater than or equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Definition at line 269 of file IndexOutOfRangeExceptionHandler.cs.

6.9.2.10 void PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeExceptionHandler.IfIsGreaterOrEqual (IComparable argument1, IComparable argument2, string message)

Throws IndexOutOfRangeException if argument1 is greater than or equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
message	The message that should be put into the exception.

Definition at line 305 of file IndexOutOfRangeExceptionHandler.cs.

6.9.2.11 void PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeExceptionHandler.IfIsGreaterOr ← Equal < TArg > (TArg argument1, TArg argument2)

Throws IndexOutOfRangeException if argument1 is greater than or equal to argument2.

Template Parameters

TArg The type of the ar	guments.
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Parameters

argument1	The left side argument.
argument2	The right side argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 254 of file IndexOutOfRangeExceptionHandler.cs.

6.9.2.12 void PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeException \leftarrow Handler.IfIsGreaterOrEqual < TArg = (TArg = argument1, TArg = argument2, string = message)

Throws IndexOutOfRangeException if argument1 is greater than or equal to argument2.

Template Parameters

TArg	The type of the arguments.

Parameters

argument1	The left side argument.
argument2	The right side argument.
message	The message that should be put into the exception.

Type Constraints

TArg: IComparable<TArg>

Definition at line 289 of file IndexOutOfRangeExceptionHandler.cs.

6.9.2.13 void PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeExceptionHandler.IfIsLess (IComparable argument1, IComparable argument2)

Throws IndexOutOfRangeException if argument1 is less than argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Definition at line 59 of file IndexOutOfRangeExceptionHandler.cs.

6.9.2.14 void PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeExceptionHandler.IfIsLess (IComparable argument1, IComparable argument2, string message)

Throws IndexOutOfRangeException if argument1 is less than argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
message	The message that should be put into the exception.

Definition at line 95 of file IndexOutOfRangeExceptionHandler.cs.

6.9.2.15 void PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeExceptionHandler.IfIsLess < TArg > (TArg argument1, TArg argument2)

Throws IndexOutOfRangeException if argument1 is less than argument2.

Template Parameters

TArg	The type of the arguments.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 44 of file IndexOutOfRangeExceptionHandler.cs.

6.9.2.16 void PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeExceptionHandler.IfIsLess < TArg > (TArg argument1, TArg argument2, string message)

Throws IndexOutOfRangeException if argument1 is less than argument2.

Template Parameters

TArg The type of the argument	S.
-------------------------------	----

Parameters

argument1	The left side argument.
argument2	The right side argument.
message	The message that should be put into the exception.

Type Constraints

TArg: IComparable<TArg>

Definition at line 79 of file IndexOutOfRangeExceptionHandler.cs.

6.9.2.17 void PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeExceptionHandler.IfIsLessOrEqual (IComparable argument1, IComparable argument2)

Throws IndexOutOfRangeException if argument1 is less than or equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Definition at line 129 of file IndexOutOfRangeExceptionHandler.cs.

6.9.2.18 void PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeExceptionHandler.IfIsLessOrEqual (IComparable argument1, IComparable argument2, string message)

Throws IndexOutOfRangeException if argument1 is less than or equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
message	The message that should be put into the exception.

Definition at line 165 of file IndexOutOfRangeExceptionHandler.cs.

6.9.2.19 void PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeExceptionHandler.IfIsLessOr ← Equal < TArg > (TArg argument1, TArg argument2)

Throws IndexOutOfRangeException if argument1 is less than or equal to argument2.

Template Parameters

TArg	The type of the arguments.
9	

Parameters

argument1	The left side argument.
argument2	The right side argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 114 of file IndexOutOfRangeExceptionHandler.cs.

6.9.2.20 void PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeException \leftarrow Handler.IfIsLessOrEqual < TArg > (TArg argument1, TArg argument2, string message)

Throws IndexOutOfRangeException if argument1 is less than or equal to argument2.

Template Parameters

TArg The type of the arguments.	
---------------------------------	--

Parameters

argument1	The left side argument.
argument2	The right side argument.

Parameters

message	The message that should be put into the exception.
---------	--

Type Constraints

TArg: IComparable<TArg>

Definition at line 149 of file IndexOutOfRangeExceptionHandler.cs.

6.9.2.21 void PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeExceptionHandler.IfIsNotEqual (IComparable argument1, IComparable argument2)

Throws IndexOutOfRangeException if argument1 is not equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Definition at line 409 of file IndexOutOfRangeExceptionHandler.cs.

6.9.2.22 void PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeExceptionHandler.IfIsNotEqual (IComparable argument1, IComparable argument2, string message)

Throws IndexOutOfRangeException if argument1 is not equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
message	The message that should be put into the exception.

Definition at line 445 of file IndexOutOfRangeExceptionHandler.cs.

6.9.2.23 void PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeExceptionHandler.IflsNotEqual < TArg > (TArg argument1, TArg argument2)

Throws IndexOutOfRangeException if argument1 is not equal to argument2.

Template Parameters

TArg	The type of the arguments.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 394 of file IndexOutOfRangeExceptionHandler.cs.

6.9.2.24 void PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeExceptionHandler.IfIsNotEqual < TArg > (TArg argument1, TArg argument2, string message)

Throws IndexOutOfRangeException if argument1 is not equal to argument2.

Template Parameters

TArg The type of the argument	S.
-------------------------------	----

Parameters

argument1	The left side argument.
argument2	The right side argument.
message	The message that should be put into the exception.

Type Constraints

TArg: IComparable<TArg>

Definition at line 429 of file IndexOutOfRangeExceptionHandler.cs.

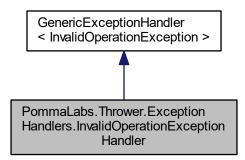
The documentation for this class was generated from the following file:

• ExceptionHandlers/IndexOutOfRangeExceptionHandler.cs

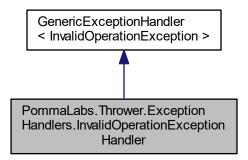
6.10 PommaLabs.Thrower.ExceptionHandlers.InvalidOperationExceptionHandler Class Reference

Handler for InvalidOperationException.

Inheritance diagram for PommaLabs.Thrower.ExceptionHandlers.InvalidOperationExceptionHandler:



 $Collaboration\ diagram\ for\ Pomma Labs. Thrower. Exception Handlers. Invalid Operation Exception Handlers. Invalid Operation Exception Handlers. The property of the proper$



Protected Member Functions

override InvalidOperationException NewWithMessage (string message)
 Creates an exception with given message.

Additional Inherited Members

6.10.1 Detailed Description

Handler for InvalidOperationException.

 $\label{lem:definition} \textbf{Definition at line 33 of file InvalidOperationExceptionHandler.cs}.$

6.10.2 Member Function Documentation

6.10.2.1 override InvalidOperationException PommaLabs.Thrower.ExceptionHandlers.InvalidOperationExceptionHandler.New
WithMessage (string message) [protected], [virtual]

Creates an exception with given message.

Parameters

message The message used by the ex	ception.
------------------------------------	----------

Returns

An exception with given message.

Implements PommaLabs.Thrower.ExceptionHandlers.GenericExceptionHandler< InvalidOperationException >.

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

ExceptionHandlers/InvalidOperationExceptionHandler.cs

6.11 PommaLabs.Thrower.Reflection.FastMember.Member Class Reference

Represents an abstracted view of an individual member defined for a type.

Public Member Functions

bool IsDefined (Type attributeType)
 Is the attribute specified defined on this type.

Public Attributes

string Name => member.Name
 The name of this member.

Properties

• Type Type [get]

The type of value stored in this member.

6.11.1 Detailed Description

Represents an abstracted view of an individual member defined for a type.

Definition at line 105 of file MemberSet.cs.

6.11.2 Member Function Documentation

6.11.2.1 bool PommaLabs.Thrower.Reflection.FastMember.Member.IsDefined (Type attributeType)

Is the attribute specified defined on this type.

Parameters

Definition at line 139 of file MemberSet.cs.

6.11.3 Member Data Documentation

6.11.3.1 string PommaLabs.Thrower.Reflection.FastMember.Member.Name => member.Name

The name of this member.

Definition at line 117 of file MemberSet.cs.

6.11.4 Property Documentation

6.11.4.1 Type PommaLabs.Thrower.Reflection.FastMember.Member.Type [get]

The type of value stored in this member.

Definition at line 123 of file MemberSet.cs.

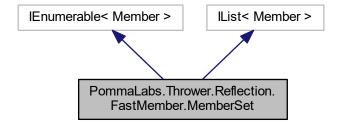
The documentation for this class was generated from the following file:

• Reflection/FastMember/MemberSet.cs

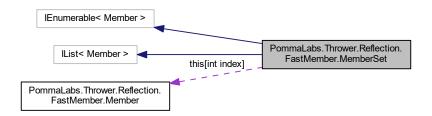
6.12 PommaLabs.Thrower.Reflection.FastMember.MemberSet Class Reference

Represents an abstracted view of the members defined for a type.

Inheritance diagram for PommaLabs.Thrower.Reflection.FastMember.MemberSet:



Collaboration diagram for PommaLabs.Thrower.Reflection.FastMember.MemberSet:



Public Member Functions

IEnumerator < Member > GetEnumerator ()
 Return a sequence of all defined members.

Public Attributes

- Member this[int index] => members[index]
 - Get a member by index
- int Count => members.Length

The number of members defined for this type.

6.12.1 Detailed Description

Represents an abstracted view of the members defined for a type.

Definition at line 25 of file MemberSet.cs.

6.12.2 Member Function Documentation

6.12.2.1 IEnumerator < Member > PommaLabs. Thrower. Reflection. Fast Member. Member Set. Get Enumerator ()

Return a sequence of all defined members.

Definition at line 42 of file MemberSet.cs.

6.12.3 Member Data Documentation

6.12.3.1 int PommaLabs.Thrower.Reflection.FastMember.MemberSet.Count => members.Length

The number of members defined for this type.

Definition at line 55 of file MemberSet.cs.

6.12.3.2 Member PommaLabs.Thrower.Reflection.FastMember.MemberSet.this[int index] => members[index]

Get a member by index

Definition at line 50 of file MemberSet.cs.

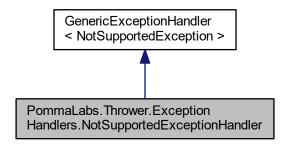
The documentation for this class was generated from the following file:

• Reflection/FastMember/MemberSet.cs

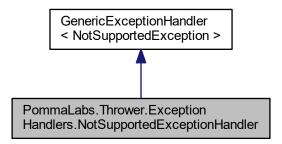
6.13 PommaLabs.Thrower.ExceptionHandlers.NotSupportedExceptionHandler Class Reference

Handler for NotSupportedException.

Inheritance diagram for PommaLabs.Thrower.ExceptionHandlers.NotSupportedExceptionHandler:



 $Collaboration\ diagram\ for\ PommaLabs. Thrower. Exception Handlers. Not Supported Exception Handler:$



Protected Member Functions

override NotSupportedException NewWithMessage (string message)
 Creates an exception with given message.

Additional Inherited Members

6.13.1 Detailed Description

Handler for NotSupportedException.

Definition at line 33 of file NotSupportedExceptionHandler.cs.

6.13.2 Member Function Documentation

6.13.2.1 override NotSupportedException PommaLabs.Thrower.ExceptionHandlers.NotSupportedExceptionHandler.NewWith←
Message (string message) [protected], [virtual]

Creates an exception with given message.

Parameters

	message	The message used by the exception.
--	---------	------------------------------------

Returns

An exception with given message.

 $Implements\ PommaLabs. Thrower. Exception Handlers. Generic Exception Handler < Not Supported Exception >.$

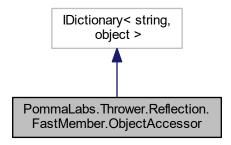
The documentation for this class was generated from the following file:

ExceptionHandlers/NotSupportedExceptionHandler.cs

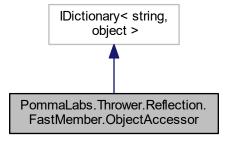
6.14 PommaLabs.Thrower.Reflection.FastMember.ObjectAccessor Class Reference

Represents an individual object, allowing access to members by-name.

Inheritance diagram for PommaLabs.Thrower.Reflection.FastMember.ObjectAccessor:



Collaboration diagram for PommaLabs.Thrower.Reflection.FastMember.ObjectAccessor:



Public Member Functions

• override bool Equals (object obj)

Use the target types definition of equality.

• override int GetHashCode ()

Obtain the hash of the target object.

• override string ToString ()

Use the target's definition of a string representation.

abstract bool ContainsKey (string key)

Determines whether the T:System.Collections.Generic.IDictionary'2 contains an element with the specified key.

· void Add (string key, object value)

Adds an element with the provided key and value to the T:System.Collections.Generic.IDictionary'2.

• bool Remove (string key)

Removes the element with the specified key from the T:System.Collections.Generic.IDictionary'2.

abstract bool TryGetValue (string key, out object value)

Gets the value associated with the specified key.

void Add (KeyValuePair< string, object > item)

Adds an item to the T:System.Collections.Generic.ICollection'1.

· void Clear ()

Removes all items from the T:System.Collections.Generic.ICollection'1.

abstract bool Contains (KeyValuePair< string, object > item)

Determines whether the T:System.Collections.Generic.ICollection'1 contains a specific value.

void CopyTo (KeyValuePair< string, object >[] array, int arrayIndex)

Copies the elements of the T:System.Collections.Generic.ICollection'1 to an T:System.Array, starting at a particular T:System.Array index.

bool Remove (KeyValuePair< string, object > item)

Removes the first occurrence of a specific object from the T:System.Collections.Generic.ICollection'1.

abstract IEnumerator < KeyValuePair < string, object > > GetEnumerator ()

Returns an enumerator that iterates through the collection.

Static Public Member Functions

static ObjectAccessor Create (object target)

Wraps an individual object, allowing by-name access to that instance.

static ObjectAccessor Create (object target, bool allowNonPublicAccessors)

Wraps an individual object, allowing by-name access to that instance

Public Attributes

• bool IsReadOnly => true

Gets a value indicating whether the T:System.Collections.Generic.ICollection'1 is read-only.

Properties

• abstract object this[string name] [get, set]

Get or Set the value of a named member for the underlying object.

• abstract object Target [get]

The object represented by this instance.

abstract ICollection < string > Keys [get]

Gets an T:System.Collections.Generic.ICollection'1 containing the keys of the T:System.Collections.Generic.I← Dictionary'2.

• abstract ICollection < object > Values [get]

Gets an T:System.Collections.Generic.ICollection'1 containing the values in the T:System.Collections.Generic.I← Dictionary'2.

• abstract int Count [get]

Gets the number of elements contained in the T:System.Collections.Generic.ICollection'1.

6.14.1 Detailed Description

Represents an individual object, allowing access to members by-name.

Definition at line 29 of file ObjectAccessor.cs.

6.14.2 Member Function Documentation

6.14.2.1 void PommaLabs.Thrower.Reflection.FastMember.ObjectAccessor.Add (string key, object value)

Adds an element with the provided key and value to the T:System.Collections.Generic.IDictionary'2.

Parameters

key	The object to use as the key of the element to add.
value	The object to use as the value of the element to add.

Exceptions

T:System.ArgumentNullException	key is null.
T:System.ArgumentException	An element with the same key already exists in the T:System.Collections.Generic.IDictionary'2.
T:System.NotSupportedException	The T:System.Collections.Generic.IDictionary'2 is read-only.

Definition at line 140 of file ObjectAccessor.cs.

6.14.2.2 void PommaLabs.Thrower.Reflection.FastMember.ObjectAccessor.Add (KeyValuePair < string, object > item)

Adds an item to the T:System.Collections.Generic.ICollection'1.

Parameters

item	The object to add to the T:System.Collections.Generic.ICollection'1.
------	--

Exceptions

T:System.NotSupportedException	The T:System.Collections.Generic.ICollection'1 is read-only.

Definition at line 186 of file ObjectAccessor.cs.

6.14.2.3 void PommaLabs.Thrower.Reflection.FastMember.ObjectAccessor.Clear ()

Removes all items from the T:System.Collections.Generic.ICollection'1.

Exceptions

T:System.NotSupportedException	The T:System.Collections.Generic.ICollection'1 is read-only.
--------------------------------	--

Definition at line 197 of file ObjectAccessor.cs.

 $\textbf{6.14.2.4} \quad \textbf{abstract bool PommaLabs.Thrower.Reflection.FastMember.ObjectAccessor.Contains (\ KeyValuePair < string, object > \\ \textit{item} \) \quad \texttt{[pure virtual]}$

Determines whether the T:System.Collections.Generic.ICollection'1 contains a specific value.

Returns

true if *item* is found in the T:System.Collections.Generic.ICollection'1; otherwise, false.

Parameters

t to locate in the T:System.Collections.Generic.ICollection	'1 .
---	-------------

6.14.2.5 abstract bool PommaLabs.Thrower.Reflection.FastMember.ObjectAccessor.ContainsKey (string key) [pure virtual]

Determines whether the T:System.Collections.Generic.IDictionary'2 contains an element with the specified key.

Returns

true if the T:System.Collections.Generic.IDictionary'2 contains an element with the key; otherwise, false.

Parameters

key	The key to locate in the T:System.Collections.Generic.IDictionary'2.
-----	--

Exceptions

T:System.ArgumentNullException	key is null.
--------------------------------	--------------

6.14.2.6 void PommaLabs.Thrower.Reflection.FastMember.ObjectAccessor.CopyTo (KeyValuePair< string, object >[] array, int arrayIndex)

Copies the elements of the T:System.Collections.Generic.ICollection'1 to an T:System.Array, starting at a particular T:System.Array index.

Parameters

array	The one-dimensional T:System.Array that is the destination of the elements copied from T:System.Collections.Generic.ICollection'1. The T:System.Array must have zero-based indexing.
arrayIndex	The zero-based index in <i>array</i> at which copying begins.

Exceptions

T:System.ArgumentNullException	array is null.
T:System.ArgumentOutOfRangeException	arrayIndex is less than 0.
T:System.ArgumentException	The number of elements in the source T:System.Collections.Generic.ICollection'1 is greater than the available space from <i>arrayIndex</i> to the end of the destination <i>array</i> .

Definition at line 236 of file ObjectAccessor.cs.

6.14.2.7 static ObjectAccessor PommaLabs.Thrower.Reflection.FastMember.ObjectAccessor.Create (object target) [static]

Wraps an individual object, allowing by-name access to that instance.

Parameters

target	The target object.
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6.14.2.8 static ObjectAccessor PommaLabs.Thrower.Reflection.FastMember.ObjectAccessor.Create (object target, bool allowNonPublicAccessors) [static]

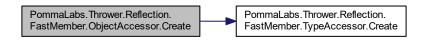
Wraps an individual object, allowing by-name access to that instance

Parameters

target	The target object.
allowNonPublicAccessors	Allow usage of non public accessors.

Definition at line 68 of file ObjectAccessor.cs.

Here is the call graph for this function:



6.14.2.9 override bool PommaLabs.Thrower.Reflection.FastMember.ObjectAccessor.Equals (object obj)

Use the target types definition of equality.

Parameters

obj	The object.

 $\label{lem:condition} \textbf{6.14.2.10} \quad \textbf{abstract } \\ \textbf{IEnumerator} < \textbf{KeyValuePair} < \textbf{string, object} > \\ \textbf{PommaLabs.Thrower.Reflection.FastMember.Object} \leftarrow \\ \textbf{Accessor.GetEnumerator()} \quad \\ [\texttt{pure virtual}]$

Returns an enumerator that iterates through the collection.

Returns

An enumerator that can be used to iterate through the collection.

<filterpriority>1</filterpriority>

6.14.2.11 override int PommaLabs.Thrower.Reflection.FastMember.ObjectAccessor.GetHashCode ()

Obtain the hash of the target object.

6.14.2.12 bool PommaLabs.Thrower.Reflection.FastMember.ObjectAccessor.Remove (string key)

Removes the element with the specified key from the T:System.Collections.Generic.IDictionary'2.

Returns

true if the element is successfully removed; otherwise, false. This method also returns false if *key* was not found in the original T:System.Collections.Generic.IDictionary'2.

Parameters

key	The key of the element to remove.
-----	-----------------------------------

Exceptions

T:System.ArgumentNullException	key is null.
T:System.NotSupportedException	The T:System.Collections.Generic.IDictionary'2 is read-only.

Definition at line 157 of file ObjectAccessor.cs.

 $6.14.2.13 \quad bool\ PommaLabs. Thrower. Reflection. Fast Member. Object Accessor. Remove (\ Key Value Pair < string, object <math>>$ item)

Removes the first occurrence of a specific object from the T:System.Collections.Generic.ICollection'1.

Returns

true if *item* was successfully removed from the T:System.Collections.Generic.ICollection'1; otherwise, false. This method also returns false if *item* is not found in the original T:System.Collections.Generic.ICollection'1.

Parameters

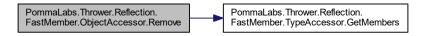
	The ability the manager from the Trought on Collections Committee (1)
ıtem	The object to remove from the T:System.Collections.Generic.ICollection'1.
	,,

Exceptions

T:System.NotSupportedException	The T:System.Collections.Generic.ICollection'1 is read-only.
--------------------------------	--

Definition at line 256 of file ObjectAccessor.cs.

Here is the call graph for this function:



6.14.2.14 override string PommaLabs.Thrower.Reflection.FastMember.ObjectAccessor.ToString ()

Use the target's definition of a string representation.

6.14.2.15 abstract bool PommaLabs.Thrower.Reflection.FastMember.ObjectAccessor.TryGetValue (string key, out object value) [pure virtual]

Gets the value associated with the specified key.

Returns

true if the object that implements T:System.Collections.Generic.IDictionary'2 contains an element with the specified key; otherwise, false.

Parameters

key	The key whose value to get.
value	When this method returns, the value associated with the specified key, if the key is found; otherwise,
	the default value for the type of the <i>value</i> parameter. This parameter is passed uninitialized.

Exceptions

T:System.ArgumentNullException	n key is null.

6.14.3 Member Data Documentation

6.14.3.1 bool PommaLabs.Thrower.Reflection.FastMember.ObjectAccessor.IsReadOnly => true

Gets a value indicating whether the T:System.Collections.Generic.ICollection'1 is read-only.

Returns

true if the T:System.Collections.Generic.ICollection'1 is read-only; otherwise, false.

Definition at line 114 of file ObjectAccessor.cs.

6.14.4 Property Documentation

6.14.4.1 abstract int PommaLabs.Thrower.Reflection.FastMember.ObjectAccessor.Count [get]

Gets the number of elements contained in the T:System.Collections.Generic.ICollection'1.

Returns

The number of elements contained in the T:System.Collections.Generic.ICollection'1.

Definition at line 104 of file ObjectAccessor.cs.

6.14.4.2 abstract ICollection < string > PommaLabs.Thrower.Reflection.FastMember.ObjectAccessor.Keys [qet]

Gets an T:System.Collections.Generic.ICollection¹1 containing the keys of the T:System.Collections.Generic.I← Dictionary¹2.

Returns

An T:System.Collections.Generic.ICollection'1 containing the keys of the object that implements T:System. ← Collections.Generic.IDictionary'2.

Definition at line 88 of file ObjectAccessor.cs.

6.14.4.3 abstract object PommaLabs.Thrower.Reflection.FastMember.ObjectAccessor.Target [get]

The object represented by this instance.

Definition at line 39 of file ObjectAccessor.cs.

6.14.4.4 abstract object PommaLabs.Thrower.Reflection.FastMember.ObjectAccessor.this[string name] [get], [set]

Get or Set the value of a named member for the underlying object.

Definition at line 34 of file ObjectAccessor.cs.

6.14.4.5 abstract ICollection < object > PommaLabs.Thrower.Reflection.FastMember.ObjectAccessor.Values [get]

Gets an T:System.Collections.Generic.ICollection $^{\circ}1$ containing the values in the T:System.Collections.Generic.I \leftarrow Dictionary $^{\circ}2$.

Returns

An T:System.Collections.Generic.ICollection'1 containing the values in the object that implements T: System.Collections.Generic.IDictionary'2.

Definition at line 98 of file ObjectAccessor.cs.

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

Reflection/FastMember/ObjectAccessor.cs

6.15 PommaLabs.Thrower.ExceptionHandlers.ObjectDisposedExceptionHandler Class Reference

Handler for ObjectDisposedException.

Public Member Functions

void If (bool disposed, string objectName, string message=null)
 Throws ObjectDisposedException if the object has been disposed.

6.15.1 Detailed Description

Handler for ObjectDisposedException.

Definition at line 33 of file ObjectDisposedExceptionHandler.cs.

6.15.2 Member Function Documentation

6.15.2.1 void PommaLabs.Thrower.ExceptionHandlers.ObjectDisposedExceptionHandler.If (bool *disposed*, string *objectName*, string *message* = null)

Throws ObjectDisposedException if the object has been disposed.

Parameters

disposed	Whether the object has been disposed or not.	
objectName	The required object name.	
message	The optional message.	

Exceptions

ObjectDisposedEvention	If the object has been disposed.
ObjectDisposedException	ii tile object lias beeli disposed.

Definition at line 42 of file ObjectDisposedExceptionHandler.cs.

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

• ExceptionHandlers/ObjectDisposedExceptionHandler.cs

6.16 PommaLabs.Thrower.Validation.ObjectValidator Class Reference

Validates an object public properties that have been decorated with the ValidateAttribute custom attribute.

Static Public Member Functions

static string FormatValidationErrors (IEnumerable < ValidationError > validationErrors, string start ← Message=null)

Prepares a readable messages containing all validation errors.

static bool Validate (object obj, out IList< ValidationError > validationErrors)

Validates given object using information contained in the ValidateAttribute custom attribute.

Public Attributes

• const string RootPlaceholder = "\$"

The placeholder used to indicate the starting object.

6.16.1 Detailed Description

Validates an object public properties that have been decorated with the ValidateAttribute custom attribute.

Definition at line 37 of file ObjectValidator.cs.

6.16.2 Member Function Documentation

6.16.2.1 static string PommaLabs.Thrower.Validation.ObjectValidator.FormatValidationErrors (IEnumerable < ValidationError > validationErrors, string startMessage = null) [static]

Prepares a readable messages containing all validation errors.

Parameters

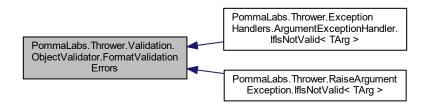
validationErrors	The validation errors.
startMessage	An optional prefix.

Returns

A readable messages containing all validation errors.

Definition at line 69 of file ObjectValidator.cs.

Here is the caller graph for this function:



6.16.2.2 static bool PommaLabs.Thrower.Validation.ObjectValidator.Validate (object obj, out IList < ValidationError > validationErrors) [static]

Validates given object using information contained in the ValidateAttribute custom attribute.

Parameters

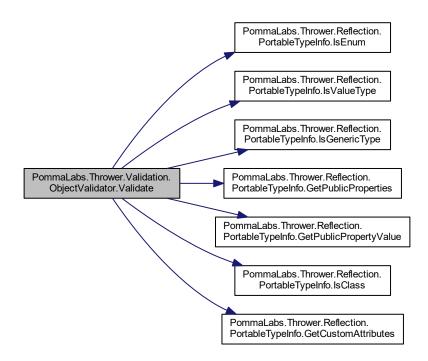
obj	The object to be validated.
validationErrors	All validation errors found.

Returns

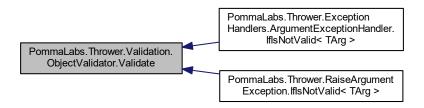
True if object is valid, false otherwise.

Definition at line 92 of file ObjectValidator.cs.

Here is the call graph for this function:



Here is the caller graph for this function:



6.16.3 Member Data Documentation

6.16.3.1 const string PommaLabs.Thrower.Validation.ObjectValidator.RootPlaceholder = "\$"

The placeholder used to indicate the starting object.

Definition at line 42 of file ObjectValidator.cs.

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

• Validation/ObjectValidator.cs

6.17 PommaLabs.Thrower.Validation.PhoneNumberValidator Class Reference

A phone number validator.

Static Public Member Functions

static bool Validate (string phoneNumber)
 Validates the specified phone number.

6.17.1 Detailed Description

A phone number validator.

A phone number validator.

Definition at line 11 of file PhoneNumberValidator.cs.

6.17.2 Member Function Documentation

6.17.2.1 static bool PommaLabs.Thrower.Validation.PhoneNumberValidate(string phoneNumber) [static]

Validates the specified phone number.

Parameters

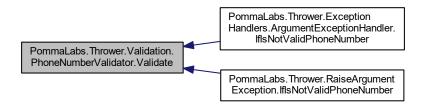
phoneNumber	A phone number.

Returns

true if the phone number is valid; otherwise false.

Definition at line 20 of file PhoneNumberValidator.cs.

Here is the caller graph for this function:



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

· Validation/PhoneNumberValidator.cs

6.18 PommaLabs.Thrower.Reflection.PortableTypeInfo Class Reference

Portable version of some useful reflection methods.

Static Public Member Functions

- static IList< Attribute > GetCustomAttributes (MemberInfo memberInfo, bool inherit)
 - Gets the custom attributes for given member.
- static IList< ConstructorInfo > GetConstructors (Type type)
 - Gets the constructors for given type.
- static IList< ConstructorInfo > GetConstructors< T > ()
 - Gets the constructors for given type.
- static Type GetBaseType (Type type)
 - Gets the base type of given type.
- static Type GetGenericTypeDefinition (Type type)
 - Gets the generic type definition of given type.
- static IList< Type > GetGenericTypeArguments (Type type)
 - Gets the generic type arguments of given type.
- static IList
 Type > GetInterfaces (Type type)

Gets the interfaces for given type.

static IList
 PropertyInfo > GetPublicProperties (Type type)

Gets all the public instance properties for given type.

static IList< PropertyInfo > GetPublicProperties< T > ()

Gets all the instance properties for given type.

• static object GetPublicPropertyValue (object instance, PropertyInfo)

Gets the value of given property on given instance.

static object GetPublicPropertyValue (TypeAccessor typeAccessor, object instance, PropertyInfo property
 —
 Info)

Gets the value of given property on given instance.

static bool IsAbstract (Type type)

Determines whether the specified type is abstract.

static bool IsAbstract< T > ()

Determines whether the specified type is abstract.

static bool IsClass (Type type)

Determines whether the specified type is a class.

static bool IsClass
 T > ()

Determines whether the specified type is a class.

static bool IsAssignableFrom (object obj, Type type)

Determines whether an instance of the current T:System. Type can be assigned from an instance of the specified Type.

• static bool IsEnum (Type type)

Determines whether the specified type is an enumeration.

static bool IsEnum< T > ()

Determines whether the specified type is an enumeration.

static bool IsGenericType (Type type)

Determines whether the specified type is a generic type.

static bool IsGenericType< T > ()

Determines whether the specified type is a generic type.

static bool IsGenericTypeDefinition (Type type)

Determines whether the specified type is a generic type definition.

static bool IsGenericTypeDefinition< T > ()

Determines whether the specified type is a generic type definition.

static bool IsInstanceOf (object obj, Type type)

Determines whether the specified object is an instance of the current T:System. Type.

static bool IsInterface (Type type)

Determines whether the specified type is an interface.

static bool IsInterface< T > ()

Determines whether the specified type is an interface.

• static bool IsPrimitive (Type type)

Determines whether the specified type is primitive.

static bool IsPrimitive < T > ()

Determines whether the specified type is primitive.

static bool IsValueType (Type type)

Determines whether the specified type is a value type.

static bool IsValueType< T > ()

Determines whether the specified type is a value type.

6.18.1 Detailed Description

Portable version of some useful reflection methods.

Definition at line 40 of file PortableTypeInfo.cs.

6.18.2 Member Function Documentation

6.18.2.1 static Type PommaLabs.Thrower.Reflection.PortableTypeInfo.GetBaseType (Type type) [static]

Gets the base type of given type.

Parameters

```
type The type.
```

Returns

The base type of given type.

Definition at line 108 of file PortableTypeInfo.cs.

 $\textbf{6.18.2.2} \quad \textbf{static | List} < \textbf{ConstructorInfo} > \textbf{PommaLabs.Thrower.Reflection.Portable TypeInfo.GetConstructors (Type \textit{type})} \\ \quad [\texttt{static}]$

Gets the constructors for given type.

Parameters

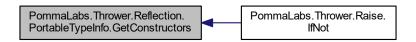
```
type The type.
```

Returns

The constructors for given type.

Definition at line 79 of file PortableTypeInfo.cs.

Here is the caller graph for this function:



6.18.2.3 static lList < ConstructorInfo> PommaLabs.Thrower.Reflection.PortableTypeInfo.GetConstructors < T > () [static]

Gets the constructors for given type.

Template Parameters

Returns

The constructors for given type.

6.18.2.4 static IList<Attribute> PommaLabs.Thrower.Reflection.PortableTypeInfo.GetCustomAttributes (MemberInfo memberInfo, bool inherit) [static]

Gets the custom attributes for given member.

Parameters

memberInfo	The member.	1
inherit	True to search this member's inheritance chain to find the attributes; otherwise, false.	

Returns

The custom attributes for given member.

Definition at line 61 of file PortableTypeInfo.cs.

Here is the caller graph for this function:



6.18.2.5 static IList<Type> PommaLabs.Thrower.Reflection.PortableTypeInfo.GetGenericTypeArguments (Type *type*) [static]

Gets the generic type arguments of given type.

Parameters

Returns

The generic type arguments of given type.

Definition at line 144 of file PortableTypeInfo.cs.

6.18.2.6 static Type PommaLabs.Thrower.Reflection.PortableTypeInfo.GetGenericTypeDefinition(Type type) [static]

Gets the generic type definition of given type.

Parameters

```
type The type.
```

Returns

The generic type definition of given type.

Definition at line 126 of file PortableTypeInfo.cs.

6.18.2.7 static | List < Type > PommaLabs.Thrower.Reflection.PortableTypeInfo.GetInterfaces (Type type) [static]

Gets the interfaces for given type.

Parameters

```
type The type.
```

Returns

The interfaces for given type.

Definition at line 162 of file PortableTypeInfo.cs.

 $\textbf{6.18.2.8} \quad \textbf{static IList} < \textbf{PropertyInfo} > \textbf{PommaLabs.Thrower.Reflection.PortableTypeInfo.GetPublicProperties (Type \textit{type})} \\ [static]$

Gets all the public instance properties for given type.

Parameters



Returns

The public instance properties for given type.

Definition at line 180 of file PortableTypeInfo.cs.

Here is the caller graph for this function:



6.18.2.9 static lList<PropertyInfo> PommaLabs.Thrower.Reflection.PortableTypeInfo.GetPublicProperties< T > () [static]

Gets all the instance properties for given type.

Template Parameters

Т	The type.
---	-----------

Returns

The instance properties for given type.

6.18.2.10 static object PommaLabs.Thrower.Reflection.PortableTypeInfo.GetPublicPropertyValue (object *instance*, PropertyInfo propertyInfo) [static]

Gets the value of given property on given instance.

Parameters

instance	The instance.		
propertyInfo	The property info.		

Returns

The value of given property on given instance.

Definition at line 219 of file PortableTypeInfo.cs.

Here is the caller graph for this function:



6.18.2.11 static object PommaLabs.Thrower.Reflection.PortableTypeInfo.GetPublicPropertyValue (TypeAccessor typeAccessor, object instance, PropertyInfo propertyInfo) [static]

Gets the value of given property on given instance.

Parameters

typeAccessor	The type accessor.		
instance	The instance.		
propertyInfo	The property info.		

Returns

The value of given property on given instance.

Definition at line 238 of file PortableTypeInfo.cs.

6.18.2.12 static bool PommaLabs.Thrower.Reflection.PortableTypeInfo.IsAbstract (Type type) [static]

Determines whether the specified type is abstract.

Parameters

type	The type.
------	-----------

Returns

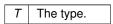
Whether the specified type is abstract.

Definition at line 260 of file PortableTypeInfo.cs.

6.18.2.13 static bool PommaLabs.Thrower.Reflection.PortableTypeInfo.IsAbstract< T > () [static]

Determines whether the specified type is abstract.

Template Parameters



Returns

Whether the specified type is abstract.

6.18.2.14 static bool PommaLabs.Thrower.Reflection.PortableTypeInfo.IsAssignableFrom (object *obj,* Type *type*) [static]

Determines whether an instance of the current T:System. Type can be assigned from an instance of the specified Type.

Parameters

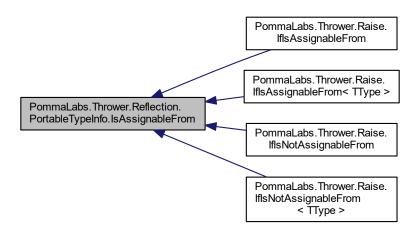
obj	The object.		
type	The type.		

Returns

Whether an instance of the current T:System. Type can be assigned from an instance of the specified Type.

Definition at line 329 of file PortableTypeInfo.cs.

Here is the caller graph for this function:



6.18.2.15 static bool PommaLabs.Thrower.Reflection.PortableTypeInfo.IsClass (Type type) [static]

Determines whether the specified type is a class.

Parameters

type	The type.

Returns

Whether the specified type is a class.

Definition at line 293 of file PortableTypeInfo.cs.

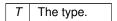
Here is the caller graph for this function:



 $\textbf{6.18.2.16} \quad \textbf{static bool PommaLabs.Thrower.Reflection.PortableTypeInfo.IsClass} < \textbf{T} > \textbf{()} \quad \texttt{[static]}$

Determines whether the specified type is a class.

Template Parameters



Returns

Whether the specified type is a class.

6.18.2.17 static bool PommaLabs.Thrower.Reflection.PortableTypeInfo.IsEnum (Type type) [static]

Determines whether the specified type is an enumeration.

Parameters

type	The type.

Returns

Whether the specified type is an enumeration.

Definition at line 354 of file PortableTypeInfo.cs.

Here is the caller graph for this function:



6.18.2.18 static bool PommaLabs.Thrower.Reflection.PortableTypeInfo.IsEnum<T>() [static]

Determines whether the specified type is an enumeration.

Template Parameters

T The type.

Returns

Whether the specified type is an enumeration.

6.18.2.19 static bool PommaLabs.Thrower.Reflection.PortableTypeInfo.IsGenericType (Type type) [static]

Determines whether the specified type is a generic type.

Parameters

```
type The type.
```

Returns

Whether the specified type is a generic type.

Definition at line 387 of file PortableTypeInfo.cs.

Here is the caller graph for this function:



 $\textbf{6.18.2.20} \quad \textbf{static bool PommaLabs.} \textbf{Thrower.} \textbf{Reflection.} \textbf{Portable TypeInfo.} \textbf{Is Generic Type} < \textbf{T} > \textbf{()} \quad [\, \texttt{static} \,]$

Determines whether the specified type is a generic type.

Template Parameters

T The type.

Returns

Whether the specified type is a generic type.

6.18.2.21 static bool PommaLabs.Thrower.Reflection.PortableTypeInfo.IsGenericTypeDefinition(Type type) [static]

Determines whether the specified type is a generic type definition.

Parameters

type	The type.
------	-----------

Returns

Whether the specified type is a generic type definition.

Definition at line 420 of file PortableTypeInfo.cs.

 $\textbf{6.18.2.22} \quad \textbf{static bool PommaLabs.Thrower.Reflection.PortableTypeInfo.IsGenericTypeDefinition} < \textbf{T} > \textbf{(} \quad \textbf{)} \\ \quad \quad [\texttt{static}]$

Determines whether the specified type is a generic type definition.

Template Parameters

Returns

Whether the specified type is a generic type definition.

6.18.2.23 static bool PommaLabs.Thrower.Reflection.PortableTypeInfo.IsInstanceOf (object obj, Type type) [static]

Determines whether the specified object is an instance of the current T:System.Type.

Parameters

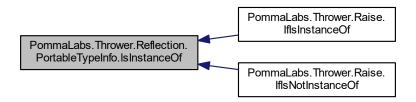
obj	The object.		
type	The type.		

Returns

Whether the specified object is an instance of the current T:System.Type.

Definition at line 452 of file PortableTypeInfo.cs.

Here is the caller graph for this function:



6.18.2.24 static bool PommaLabs.Thrower.Reflection.PortableTypeInfo.IsInterface(Type type) [static]

Determines whether the specified type is an interface.

Parameters

Returns

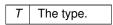
Whether the specified type is an interface.

Definition at line 477 of file PortableTypeInfo.cs.

6.18.2.25 static bool PommaLabs.Thrower.Reflection.PortableTypeInfo.IsInterface < T>() [static]

Determines whether the specified type is an interface.

Template Parameters



Returns

Whether the specified type is an interface.

6.18.2.26 static bool PommaLabs.Thrower.Reflection.PortableTypeInfo.IsPrimitive(Type type) [static]

Determines whether the specified type is primitive.

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Da	ra	m	o	ŀ۵	PC.

type	The type.

Returns

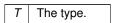
Whether the specified type is primitive.

Definition at line 510 of file PortableTypeInfo.cs.

6.18.2.27 static bool PommaLabs.Thrower.Reflection.PortableTypeInfo.IsPrimitive< T>() [static]

Determines whether the specified type is primitive.

Template Parameters



Returns

Whether the specified type is primitive.

6.18.2.28 static bool PommaLabs.Thrower.Reflection.PortableTypeInfo.IsValueType (Type type) [static]

Determines whether the specified type is a value type.

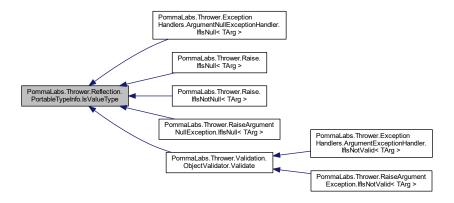
Parameters

Returns

Whether the specified type is a value type.

Definition at line 543 of file PortableTypeInfo.cs.

Here is the caller graph for this function:



6.18.2.29 static bool PommaLabs.Thrower.Reflection.PortableTypeInfo.IsValueType< T > () [static]

Determines whether the specified type is a value type.

Template Parameters

Т	The type.
---	-----------

Returns

Whether the specified type is a value type.

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

• Reflection/PortableTypeInfo.cs

6.19 PommaLabs.Thrower.Raise < TEx > Class Template Reference

New exception handling mechanism, which is more fluent than the old ones.

6.19.1 Detailed Description

New exception handling mechanism, which is more fluent than the old ones.

Definition at line 33 of file Raise.cs.

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

• Obsolete/Raise.cs

6.20 PommaLabs.Thrower.Raise < TEx > Class Template Reference

New exception handling mechanism, which is more fluent than the old ones.

6.20.1 Detailed Description

New exception handling mechanism, which is more fluent than the old ones.

Definition at line 33 of file Raise.cs.

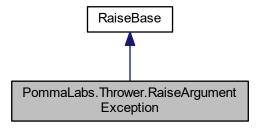
The documentation for this class was generated from the following file:

· Obsolete/Raise.cs

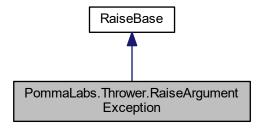
6.21 PommaLabs.Thrower.RaiseArgumentException Class Reference

Utility methods which can be used to handle bad arguments.

Inheritance diagram for PommaLabs.Thrower.RaiseArgumentException:



 $Collaboration\ diagram\ for\ PommaLabs. Thrower. Raise Argument Exception:$



Static Public Member Functions

static void If (bool condition)

Throws ArgumentException if given condition is true.

static void If (bool condition, string argumentName, string message=null)

Throws ArgumentException if given condition is true.

• static void IfNot (bool condition)

Throws ArgumentException if given condition is false.

· static void IfNot (bool condition, string argumentName, string message=null)

Throws ArgumentException if given condition is false.

static void IfIsNotValid< TArg > (TArg argument)

Throws ArgumentException if given argument is not valid.

static void IfIsNotValid < TArg > (TArg argument, string argumentName, string message=null)

Throws ArgumentException if given argument is not valid.

static void IfIsNotValidEmailAddress (string emailAddress)

Throws ArgumentException if given string is not a valid email address.

static void IfIsNotValidEmailAddress (string emailAddress, EmailAddressValidator.Options validatorOptions)

Throws ArgumentException if given string is not a valid email address.

static void IfIsNotValidEmailAddress (string emailAddress, string argumentName, string message=null)

Throws ArgumentException if given string is not a valid email address.

static void IfIsNotValidEmailAddress (string emailAddress, string argumentName, EmailAddressValidator.

Options validatorOptions, string message=null)

Throws ArgumentException if given string is not a valid email address.

static void IfIsNotValidPhoneNumber (string phoneNumber)

Throws ArgumentException if given string is not a valid phone number.

static void IfIsNotValidPhoneNumber (string phoneNumber, string argumentName, string message=null)

Throws ArgumentException if given string is not a valid phone number.

static void IfIsNullOrEmpty (string value)

Throws ArgumentException if given string is null or empty.

• static void IfIsNullOrEmpty (string value, string argumentName, string message=null)

Throws ArgumentException if given string is null or empty.

static void IfIsNullOrWhiteSpace (string value)

Throws ArgumentException if given string is null, empty or blank.

• static void IfIsNullOrWhiteSpace (string value, string argumentName, string message=null)

Throws ArgumentException if given string is null, empty or blank.

• static void IfIsNullOrEmpty < TItem > (ICollection < TItem > value)

Throws ArgumentException if given collection is null or empty.

 static void IfIsNullOrEmpty< TItem > (ICollection< TItem > value, string argumentName, string message=null)

Throws ArgumentException if given collection is null or empty.

Additional Inherited Members

6.21.1 Detailed Description

Utility methods which can be used to handle bad arguments.

This class is no longer maintained.

Definition at line 37 of file RaiseArgumentException.cs.

6.21.2 Member Function Documentation

 $\textbf{6.21.2.1} \quad \textbf{static void PommaLabs.Thrower.RaiseArgumentException.If (bool \textit{condition})} \quad \texttt{[static]}$

Throws ArgumentException if given condition is true.

Parameters

condition	The condition.
-----------	----------------

Definition at line 51 of file RaiseArgumentException.cs.

6.21.2.2 static void PommaLabs.Thrower.RaiseArgumentException.If (bool condition, string argumentName, string message = null) [static]

Throws ArgumentException if given condition is true.

Parameters

condition	The condition.
argumentName	The name of the argument.
message	The message.

message and argumentName are strictly required arguments.

Definition at line 72 of file RaiseArgumentException.cs.

 $\textbf{6.21.2.3} \quad \textbf{static void PommaLabs.Thrower.RaiseArgumentException.lflsNotValid} < \textbf{TArg} > \textbf{(TArg} \ \textit{argument} \ \textbf{)} \quad \texttt{[static]}$

Throws ArgumentException if given argument is not valid.

Template Parameters

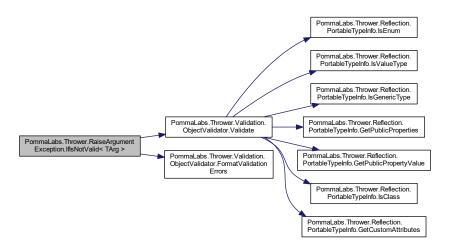
TArg	The type of the argument.

Parameters

argument	The argument.

Definition at line 134 of file RaiseArgumentException.cs.

Here is the call graph for this function:



6.21.2.4 static void PommaLabs.Thrower.RaiseArgumentException.IflsNotValid < TArg > (TArg argument, string argumentName, string message = null) [static]

Throws ArgumentException if given argument is not valid.

Template Parameters

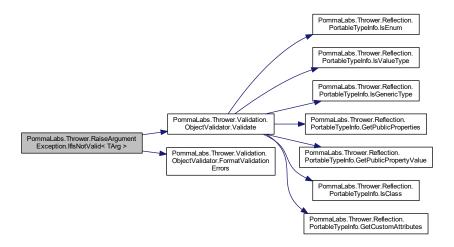
Parameters

argument	The argument.
argumentName	The name of the argument.
message	The message.

message and argumentName are strictly required arguments.

Definition at line 157 of file RaiseArgumentException.cs.

Here is the call graph for this function:



6.21.2.5 static void PommaLabs.Thrower.RaiseArgumentException.IfIsNotValidEmailAddress (string *emailAddress* **) [static]**

Throws ArgumentException if given string is not a valid email address.

Parameters

emailAddress	An email address.
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Definition at line 180 of file RaiseArgumentException.cs.

Here is the call graph for this function:



6.21.2.6 static void PommaLabs.Thrower.RaiseArgumentException.IfIsNotValidEmailAddress (string emailAddress, EmailAddressValidator.Options validatorOptions) [static]

Throws ArgumentException if given string is not a valid email address.

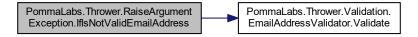
Parameters

emailAddress	An email address.
validatorOptions	Customizations for the validation process.

Generated by Doxygen

Definition at line 198 of file RaiseArgumentException.cs.

Here is the call graph for this function:



6.21.2.7 static void PommaLabs.Thrower.RaiseArgumentException.lflsNotValidEmailAddress (string emailAddress, string argumentName, string message = null) [static]

Throws ArgumentException if given string is not a valid email address.

Parameters

emailAddress	An email address.
argumentName	The name of the argument.
message	The message.

message and argumentName are strictly required arguments.

Definition at line 220 of file RaiseArgumentException.cs.

Here is the call graph for this function:



6.21.2.8 static void PommaLabs.Thrower.RaiseArgumentException.IfIsNotValidEmailAddress (string emailAddress, string argumentName, EmailAddressValidator.Options validatorOptions, string message = null) [static]

Throws ArgumentException if given string is not a valid email address.

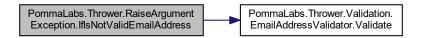
Parameters

emailAddress	An email address.
argumentName	The name of the argument.
validatorOptions	Customizations for the validation process.
message	The message.

message and argumentName are strictly required arguments.

Definition at line 243 of file RaiseArgumentException.cs.

Here is the call graph for this function:



6.21.2.9 static void PommaLabs.Thrower.RaiseArgumentException.lflsNotValidPhoneNumber (string *phoneNumber*) [static]

Throws ArgumentException if given string is not a valid phone number.

Parameters

phoneNumber	A phone number.
-------------	-----------------

Definition at line 266 of file RaiseArgumentException.cs.

Here is the call graph for this function:



6.21.2.10 static void PommaLabs.Thrower.RaiseArgumentException.lflsNotValidPhoneNumber (string phoneNumber, string argumentName, string message = null) [static]

Throws ArgumentException if given string is not a valid phone number.

Parameters

phoneNumber	A phone number.
argumentName	The name of the argument.
message	The message.

message and argumentName are strictly required arguments.

Definition at line 288 of file RaiseArgumentException.cs.

Here is the call graph for this function:



6.21.2.11 static void PommaLabs.Thrower.RaiseArgumentException.lflsNullOrEmpty (string value) [static]

Throws ArgumentException if given string is null or empty.

Parameters

value	The string value.
-------	-------------------

Definition at line 312 of file RaiseArgumentException.cs.

6.21.2.12 static void PommaLabs.Thrower.RaiseArgumentException.lflsNullOrEmpty (string *value*, string *argumentName*, string *message* = null) [static]

Throws ArgumentException if given string is null or empty.

Parameters

value	The string value.
argumentName	The name of the argument.
message	The optional message.

message and argumentName are strictly required arguments.

Definition at line 333 of file RaiseArgumentException.cs.

6.21.2.13 static void PommaLabs.Thrower.RaiseArgumentException.IfIsNullOrEmpty< TItem > (ICollection< TItem > value) [static]

Throws ArgumentException if given collection is null or empty.

Template Parameters

TItem	The type of the items contained in the collection.
-------	--

Parameters

value The collection.

Definition at line 393 of file RaiseArgumentException.cs.

6.21.2.14 static void PommaLabs.Thrower.RaiseArgumentException.IfIsNullOrEmpty < TItem > (ICollection < TItem > value, string argumentName, string message = null) [static]

Throws ArgumentException if given collection is null or empty.

Template Parameters

ſ	TItem	The type of the items contained in the collection.]
---	-------	--	---

Parameters

value	The collection.
argumentName	The name of the argument.
message	The optional message.

message and argumentName are strictly required arguments.

Definition at line 415 of file RaiseArgumentException.cs.

6.21.2.15 static void PommaLabs.Thrower.RaiseArgumentException.lflsNullOrWhiteSpace (string value) [static]

Throws ArgumentException if given string is null, empty or blank.

Parameters

value	The string value.

Definition at line 349 of file RaiseArgumentException.cs.

6.21.2.16 static void PommaLabs.Thrower.RaiseArgumentException.IfIsNullOrWhiteSpace (string *value*, string *argumentName*, string *message* = null) [static]

Throws ArgumentException if given string is null, empty or blank.

Parameters

value	The string value.
argumentName	The name of the argument.
message	The optional message.

message and argumentName are strictly required arguments.

Definition at line 370 of file RaiseArgumentException.cs.

6.21.2.17 static void PommaLabs.Thrower.RaiseArgumentException.IfNot (bool condition) [static]

Throws ArgumentException if given condition is false.

Parameters

condition	The condition.
-----------	----------------

Definition at line 92 of file RaiseArgumentException.cs.

6.21.2.18 static void PommaLabs.Thrower.RaiseArgumentException.lfNot (bool condition, string argumentName, string message = null) [static]

Throws ArgumentException if given condition is false.

Parameters

condition	The condition.
argumentName	The name of the argument.
message	The message.

message and argumentName are strictly required arguments.

Definition at line 113 of file RaiseArgumentException.cs.

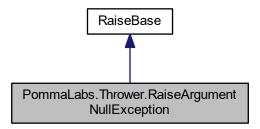
The documentation for this class was generated from the following file:

• Obsolete/RaiseArgumentException.cs

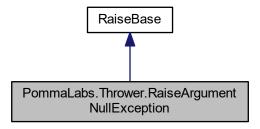
6.22 PommaLabs.Thrower.RaiseArgumentNullException Class Reference

Utility methods which can be used to handle null references.

Inheritance diagram for PommaLabs.Thrower.RaiseArgumentNullException:



Collaboration diagram for PommaLabs.Thrower.RaiseArgumentNullException:



Static Public Member Functions

static void IfIsNull< TArg > (TArg argument)

Throws ArgumentNullException if given argument if null.

• static void IfIsNull< TArg > (TArg argument, string argumentName)

Throws ArgumentNullException if given argument if null.

static void IfIsNull< TArg > (TArg argument, string argumentName, string message)

Throws ArgumentNullException if given argument if null.

static void IfIsNull < TArg > (TArg?argument)

Throws ArgumentNullException if given argument if null.

static void IfIsNull< TArg > (TArg?argument, string argumentName)

Throws ArgumentNullException if given argument if null.

• static void IfIsNull < TArg > (TArg?argument, string argumentName, string message)

Throws ArgumentNullException if given argument if null.

Additional Inherited Members

6.22.1 Detailed Description

Utility methods which can be used to handle null references.

This class is no longer maintained.

Definition at line 36 of file RaiseArgumentNullException.cs.

6.22.2 Member Function Documentation

6.22.2.1 static void PommaLabs.Thrower.RaiseArgumentNullException.lflsNull< TArg > (TArg argument) [static]

Throws ArgumentNullException if given argument if null.

Template Parameters

TArg	The type of the argument.
------	---------------------------

Parameters

argument	The argument.
----------	---------------

Definition at line 49 of file RaiseArgumentNullException.cs.

Here is the call graph for this function:



6.22.2.2 static void PommaLabs.Thrower.RaiseArgumentNullException.lflsNull< TArg > (TArg argument, string argumentName) [static]

Throws ArgumentNullException if given argument if null.

Template Parameters

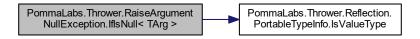
TArg	The type of the argument.

Parameters

argument	The argument.
argumentName	The name of the argument.

Definition at line 67 of file RaiseArgumentNullException.cs.

Here is the call graph for this function:



6.22.2.3 static void PommaLabs.Thrower.RaiseArgumentNullException.lflsNull< TArg > (TArg argument, string argumentName, string message) [static]

Throws ArgumentNullException if given argument if null.

Template Parameters

TArg The type of the	argument.
----------------------	-----------

Parameters

argument	The argument.
argumentName	The name of the argument.
message	The message that should be put into the exception.

Definition at line 86 of file RaiseArgumentNullException.cs.

Here is the call graph for this function:



6.22.2.4 static void PommaLabs.Thrower.RaiseArgumentNullException.IfIsNull< TArg > (TArg? argument) [static]

Throws ArgumentNullException if given argument if null.

Template Parameters

ne type of the nullable argument.

Parameters

argument T	he argument.
------------	--------------

Type Constraints

TArg: struct

Definition at line 107 of file RaiseArgumentNullException.cs.

6.22.2.5 static void PommaLabs.Thrower.RaiseArgumentNullException.lflsNull< TArg> (TArg? argument, string argumentName) [static]

Throws ArgumentNullException if given argument if null.

Template Parameters

Parameters

argument	The argument.
argumentName	The name of the argument.

Type Constraints

TArg: struct

Definition at line 126 of file RaiseArgumentNullException.cs.

6.22.2.6 static void PommaLabs.Thrower.RaiseArgumentNullException.lflsNull< TArg > (TArg? argument, string argumentName, string message) [static]

Throws ArgumentNullException if given argument if null.

Template Parameters

TArg The type of the nullable argument	
--	--

Parameters

argument	The argument.
----------	---------------

Parameters

argumentName	The name of the argument.
message	The message that should be put into the exception.

Type Constraints

TArg: struct

Definition at line 146 of file RaiseArgumentNullException.cs.

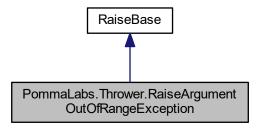
The documentation for this class was generated from the following file:

• Obsolete/RaiseArgumentNullException.cs

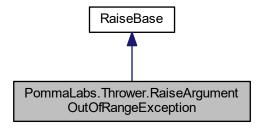
6.23 PommaLabs.Thrower.RaiseArgumentOutOfRangeException Class Reference

Utility methods which can be used to handle ranges.

Inheritance diagram for PommaLabs.Thrower.RaiseArgumentOutOfRangeException:



 $Collaboration\ diagram\ for\ PommaLabs. Thrower. Raise Argument Out Of Range Exception:$



Static Public Member Functions

static void If (bool condition, string argumentName=null)

Throws ArgumentOutOfRangeException if given condition is true.

static void If (bool condition, string argumentName, string message)

Throws ArgumentOutOfRangeException if given condition is true.

static void IfNot (bool condition, string argumentName=null)

Throws ArgumentOutOfRangeException if given condition is false.

static void IfNot (bool condition, string argumentName, string message)

Throws ArgumentOutOfRangeException if given condition is false.

static void IfIsLess< TArg > (TArg argument1, TArg argument2)

Throws ArgumentOutOfRangeException if argument1 is less than argument2.

static void IfIsLess (IComparable argument1, IComparable argument2)

Throws ArgumentOutOfRangeException if argument1 is less than argument2.

static void IfIsLess< TArg > (TArg argument1, TArg argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is less than argument2.

static void IfIsLess (IComparable argument1, IComparable argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is less than argument2.

• static void lflsLess< TArg > (TArg argument1, TArg argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is less than argument2.

static void IfIsLess (IComparable argument1, IComparable argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is less than argument2.

static void IfIsLessOrEqual < TArg > (TArg argument1, TArg argument2)

Throws ArgumentOutOfRangeException if argument1 is less than or equal to argument2.

• static void IfIsLessOrEqual (IComparable argument1, IComparable argument2)

Throws ArgumentOutOfRangeException if argument1 is less than or equal to argument2.

static void IfIsLessOrEqual < TArg > (TArg argument1, TArg argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is less than or equal to argument2.

static void IfIsLessOrEqual (IComparable argument1, IComparable argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is less than or equal to argument2.

static void IfIsLessOrEqual < TArg > (TArg argument1, TArg argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is less than or equal to argument2.

 static void IfIsLessOrEqual (IComparable argument1, IComparable argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is less than or equal to argument2 .

static void IfIsGreater < TArg > (TArg argument1, TArg argument2)

Throws ArgumentOutOfRangeException if argument1 is greater than argument2.

static void IfIsGreater (IComparable argument1, IComparable argument2)

Throws ArgumentOutOfRangeException if argument1 is greater than argument2.

• static void IfIsGreater< TArg > (TArg argument1, TArg argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is greater than argument2.

• static void IfIsGreater (IComparable argument1, IComparable argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is greater than argument2.

static void IfIsGreater < TArg > (TArg argument1, TArg argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is greater than argument2 .

static void IfIsGreater (IComparable argument1, IComparable argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is greater than argument2 .

• static void IfIsGreaterOrEqual < TArg > (TArg argument1, TArg argument2)

Throws ArgumentOutOfRangeException if argument1 is greater than or equal to argument2.

• static void IfIsGreaterOrEqual (IComparable argument1, IComparable argument2)

Throws ArgumentOutOfRangeException if argument1 is greater than or equal to argument2.

static void IfIsGreaterOrEqual < TArg > (TArg argument1, TArg argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is greater than or equal to argument2.

• static void IfIsGreaterOrEqual (IComparable argument1, IComparable argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is greater than or equal to argument2.

static void IfIsGreaterOrEqual < TArg > (TArg argument1, TArg argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is greater than or equal to argument2.

 static void IfIsGreaterOrEqual (IComparable argument1, IComparable argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is greater than or equal to argument2.

static void IfIsEqual < TArg > (TArg argument1, TArg argument2)

Throws ArgumentOutOfRangeException if argument1 is equal to argument2.

• static void IfIsEqual (IComparable argument1, IComparable argument2)

Throws ArgumentOutOfRangeException if argument1 is equal to argument2.

static void IfIsEqual < TArg > (TArg argument1, TArg argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is equal to argument2.

• static void IfIsEqual (IComparable argument1, IComparable argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is equal to argument2.

• static void IfIsEqual < TArg > (TArg argument1, TArg argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is equal to argument2.

static void IfIsEqual (IComparable argument1, IComparable argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is equal to argument2.

static void lflsNotEqual < TArg > (TArg argument1, TArg argument2)

Throws ArgumentOutOfRangeException if argument1 is not equal to argument2 .

• static void IfIsNotEqual (IComparable argument1, IComparable argument2)

Throws ArgumentOutOfRangeException if argument1 is not equal to argument2.

static void IfIsNotEqual < TArg > (TArg argument1, TArg argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is not equal to argument2.

• static void IfIsNotEqual (IComparable argument1, IComparable argument2, string argumentName)

Throws ArgumentOutOfRangeException if argument1 is not equal to argument2.

Throws ArgumentOutOfRangeException if argument1 is not equal to argument2.

- $\bullet \ \ \text{static void IfIsNotEqual} < \ \ \text{TArg} > (\text{TArg argument1}, \ \text{TArg argument2}, \ \text{string argumentName}, \ \text{string message}) \\$
- static void IfIsNotEqual (IComparable argument1, IComparable argument2, string argumentName, string message)

Throws ArgumentOutOfRangeException if argument1 is not equal to argument2.

Additional Inherited Members

6.23.1 Detailed Description

Utility methods which can be used to handle ranges.

This class is no longer maintained.

Definition at line 35 of file RaiseArgumentOutOfRangeException.cs.

6.23.2 Member Function Documentation

6.23.2.1 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.If (bool condition, string argumentName = null) [static]

Throws ArgumentOutOfRangeException if given condition is true.

Parameters

condition	The condition.
argumentName	The optional name of the argument.

Definition at line 48 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.2 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.lf (bool condition, string argumentName, string message) [static]

Throws ArgumentOutOfRangeException if given condition is true.

Parameters

condition	The condition.
argumentName	The name of the argument.
message	The message.

message and argumentName are strictly required arguments.

Definition at line 69 of file RaiseArgumentOutOfRangeException.cs.

Throws ArgumentOutOfRangeException if argument1 is equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Definition at line 681 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.4 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.lflsEqual (IComparable argument1, IComparable argument2, string argumentName) [static]

Throws ArgumentOutOfRangeException if argument1 is equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.

Definition at line 725 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.5 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.lflsEqual (IComparable argument1, IComparable argument2, string argumentName, string message) [static]

Throws ArgumentOutOfRangeException if argument1 is equal to argument2.

Parameters

argument1	The left side argument.	
argument2	The right side argument.	
argumentName	The name of the argument.	
message	The message that should be put into the exception.	

Definition at line 771 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.6 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.lflsEqual < TArg > (TArg argument1, TArg argument2) [static]

Throws ArgumentOutOfRangeException if argument1 is equal to argument2.

Template Parameters

TArg The type of the	arguments.
----------------------	------------

Parameters

argument1	The left side argument.
argument2	The right side argument.

Type Constraints

TArg : IComparable<TArg>

Definition at line 662 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.7 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.lflsEqual< TArg > (TArg argument1, TArg argument2, string argumentName) [static]

Throws ArgumentOutOfRangeException if argument1 is equal to argument2.

Template Parameters

TArg The type of the argur	nents.
----------------------------	--------

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 705 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.8 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.IfIsEqual < TArg > (TArg argument1, TArg argument2, string argumentName, string message) [static]

Throws ArgumentOutOfRangeException if argument1 is equal to argument2.

Template Parameters

TArg The type of the	e arguments.
----------------------	--------------

Parameters

argument1	The left side argument.	
argument2	The right side argument.	
argumentName	argumentName The name of the argument.	
message	The message that should be put into the exception.	

Type Constraints

TArg: IComparable<TArg>

 $Definition\ at\ line\ 750\ of\ file\ Raise Argument Out Of Range Exception.cs.$

6.23.2.9 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.lflsGreater (IComparable argument1, IComparable argument2) [static]

Throws ArgumentOutOfRangeException if argument1 is greater than argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Definition at line 417 of file RaiseArgumentOutOfRangeException.cs.

Throws ArgumentOutOfRangeException if argument1 is greater than argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.

Definition at line 461 of file RaiseArgumentOutOfRangeException.cs.

Throws ArgumentOutOfRangeException if argument1 is greater than argument2.

Parameters

argument1	The left side argument.	
argument2	The right side argument.	
argumentName	The name of the argument.	
message	The message that should be put into the exception.	

Definition at line 507 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.12 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.lflsGreater < TArg > (TArg argument1, TArg argument2) [static]

Throws ArgumentOutOfRangeException if argument1 is greater than argument2.

Template Parameters

TArg	The type of the arguments.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Type Constraints

TArg : IComparable<TArg>

Definition at line 398 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.13 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.IfIsGreater < TArg > (TArg argument1, TArg argument2, string argumentName) [static]

Throws ArgumentOutOfRangeException if argument1 is greater than argument2.

Template Parameters

TArg The type of the arguments.

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 441 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.14 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.lflsGreater< TArg > (TArg argument1, TArg argument2, string argumentName, string message) [static]

Throws ArgumentOutOfRangeException if argument1 is greater than argument2.

Template Parameters

TArg	The type of the arguments.
9	The type of the diagonite inter-

Parameters

argument1	The left side argument.	
argument2	The right side argument.	
argumentName	The name of the argument.	
message	The message that should be put into the exception.	

Definition at line 486 of file RaiseArgumentOutOfRangeException.cs.

Type Constraints

TArg: IComparable<TArg>

Throws ArgumentOutOfRangeException if argument1 is greater than or equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Definition at line 549 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.16 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.IfIsGreaterOrEqual (IComparable argument1, IComparable argument2, string argumentName) [static]

Throws ArgumentOutOfRangeException if argument1 is greater than or equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.

Definition at line 593 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.17 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.lflsGreaterOrEqual (IComparable argument1, IComparable argument2, string argumentName, string message) [static]

Throws ArgumentOutOfRangeException if argument1 is greater than or equal to argument2.

Parameters

argument1	The left side argument.	
argument2	The right side argument.	
argumentName	The name of the argument.	
message	The message that should be put into the exception.	

Definition at line 639 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.18 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.lflsGreaterOrEqual < TArg > (TArg argument1, TArg argument2) [static]

Throws ArgumentOutOfRangeException if argument1 is greater than or equal to argument2.

Template Parameters

TArg	The type of the arguments.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 530 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.19 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.IfIsGreaterOrEqual < TArg > (TArg argument1, TArg argument2, string argumentName) [static]

Throws ArgumentOutOfRangeException if argument1 is greater than or equal to argument2.

Template Parameters

TArg	The type of the arguments.
------	----------------------------

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 573 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.20 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.IfIsGreaterOrEqual < TArg > (TArg argument1, TArg argument2, string argumentName, string message) [static]

Throws ArgumentOutOfRangeException if argument1 is greater than or equal to argument2.

Template Parameters

TArg The type	of the arguments.
---------------	-------------------

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.

Parameters

message	The message that should be put into the exception.
---------	--

Type Constraints

TArg: IComparable<TArg>

Definition at line 618 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.21 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.lflsLess (IComparable argument1, IComparable argument2) [static]

Throws ArgumentOutOfRangeException if argument1 is less than argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Definition at line 153 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.22 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.lflsLess (IComparable argument1, IComparable argument2, string argumentName) [static]

Throws ArgumentOutOfRangeException if argument1 is less than argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.

Definition at line 197 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.23 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.lflsLess (IComparable argument1, IComparable argument2, string argumentName, string message) [static]

Throws ArgumentOutOfRangeException if argument1 is less than argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.
message	The message that should be put into the exception.

Definition at line 243 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.24 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.lflsLess< TArg > (TArg argument1, TArg argument2) [static]

Throws ArgumentOutOfRangeException if argument1 is less than argument2.

Template Parameters

TArg The type of the arguments.	e arguments.
---------------------------------	--------------

Parameters

argument1	The left side argument.
argument2	The right side argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 134 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.25 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.lflsLess< TArg > (TArg argument1, TArg argument2, string argumentName) [static]

Throws ArgumentOutOfRangeException if argument1 is less than argument2.

Template Parameters

TArg The type of the arguments.

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 177 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.26 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.lflsLess< TArg > (TArg argument1, TArg argument2, string argumentName, string message) [static]

Throws ArgumentOutOfRangeException if argument1 is less than argument2.

Template Parameters

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.
message	The message that should be put into the exception.

Type Constraints

TArg: IComparable<TArg>

Definition at line 222 of file RaiseArgumentOutOfRangeException.cs.

Throws ArgumentOutOfRangeException if argument1 is less than or equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Definition at line 285 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.28 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.lflsLessOrEqual (IComparable argument1, IComparable argument2, string argumentName) [static]

Throws ArgumentOutOfRangeException if argument1 is less than or equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.

Definition at line 329 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.29 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.lflsLessOrEqual (IComparable argument1, IComparable argument2, string argumentName, string message) [static]

Throws ArgumentOutOfRangeException if argument1 is less than or equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.
message	The message that should be put into the exception.

Definition at line 375 of file RaiseArgumentOutOfRangeException.cs.

Throws ArgumentOutOfRangeException if argument1 is less than or equal to argument2.

Template Parameters

Parameters

argument1	The left side argument.
argument2	The right side argument.

Type Constraints

TArg : IComparable<TArg>

Definition at line 266 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.31 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.IfIsLessOrEqual < TArg > (
TArg argument1, TArg argument2, string argumentName) [static]

Throws ArgumentOutOfRangeException if argument1 is less than or equal to argument2.

Template Parameters

TArg	The type of the arguments.

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 309 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.32 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.IfIsLessOrEqual < TArg > (
TArg argument1, TArg argument2, string argumentName, string message) [static]

Throws ArgumentOutOfRangeException if argument1 is less than or equal to argument2.

Template Parameters

TArg The type of the argume	nts.
-----------------------------	------

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.
message	The message that should be put into the exception.

Type Constraints

TArg: IComparable<TArg>

Definition at line 354 of file RaiseArgumentOutOfRangeException.cs.

Throws ArgumentOutOfRangeException if argument1 is not equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Definition at line 813 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.34 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.lflsNotEqual (IComparable argument1, IComparable argument2, string argumentName) [static]

Throws ArgumentOutOfRangeException if argument1 is not equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.

Definition at line 857 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.35 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.lflsNotEqual (IComparable argument1, IComparable argument2, string argumentName, string message) [static]

Throws ArgumentOutOfRangeException if argument1 is not equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.
message	The message that should be put into the exception.

Definition at line 903 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.36 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.IfIsNotEqual < TArg > (TArg argument1, TArg argument2) [static]

Throws ArgumentOutOfRangeException if argument1 is not equal to argument2.

Template Parameters

TArg The type of the	arguments.
----------------------	------------

Parameters

argument1	The left side argument.
argument2	The right side argument.

Type Constraints

 $\textit{TArg}: \textit{IComparable}{<}\textit{TArg}{>}$

Definition at line 794 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.37 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.IfIsNotEqual < TArg > (TArg argument1, TArg argument2, string argumentName) [static]

Throws ArgumentOutOfRangeException if argument1 is not equal to argument2.

Template Parameters

TArg The type of the argur	nents.
----------------------------	--------

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 837 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.38 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.IfIsNotEqual < TArg > (TArg argument1, TArg argument2, string argumentName, string message) [static]

Throws ArgumentOutOfRangeException if argument1 is not equal to argument2.

Template Parameters

TArg The type of the	e arguments.
----------------------	--------------

Parameters

argument1	The left side argument.
argument2	The right side argument.
argumentName	The name of the argument.
message	The message that should be put into the exception.

Type Constraints

TArg: IComparable<TArg>

Definition at line 882 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.39 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.lfNot (bool condition, string argumentName = null) [static]

Throws ArgumentOutOfRangeException if given condition is false.

Parameters

condition	The condition.
argumentName	The optional name of the argument.

Definition at line 90 of file RaiseArgumentOutOfRangeException.cs.

6.23.2.40 static void PommaLabs.Thrower.RaiseArgumentOutOfRangeException.IfNot (bool *condition*, string *argumentName*, string *message*) [static]

Throws ArgumentOutOfRangeException if given condition is false.

Parameters

condition	The condition.
argumentName	The name of the argument.
message	The message.

message and argumentName are strictly required arguments.

Definition at line 111 of file RaiseArgumentOutOfRangeException.cs.

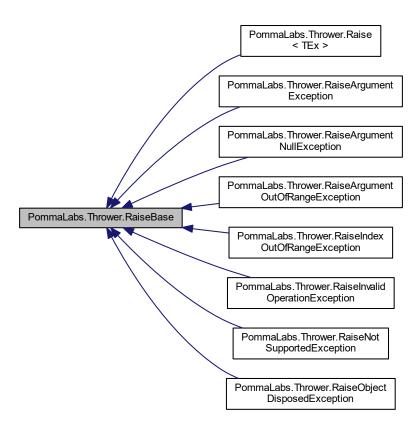
The documentation for this class was generated from the following file:

• Obsolete/RaiseArgumentOutOfRangeException.cs

6.24 PommaLabs.Thrower.RaiseBase Class Reference

Stores items shared by various Raise<TEx> instances.

Inheritance diagram for PommaLabs.Thrower.RaiseBase:



Static Protected Attributes

- static readonly Type[] NoCtorTypes = new Type[0]
 Stores an empty array of System. Type used to seek constructors without parameters.
- static readonly Type[] StrExCtorTypes = { typeof(string), typeof(Exception) }
 Stores the types needed to seek the constructor which takes a string and an exception as parameters to instance the exception.
- static readonly Type[] StrCtorType = { typeof(string) }
 Stores the type needed to seek the constructor which takes a string as parameter to instance the exception.

6.24.1 Detailed Description

Stores items shared by various Raise<TEx> instances.

Definition at line 36 of file RaiseGeneric.cs.

6.24.2 Member Data Documentation

6.24.2.1 readonly Type [] PommaLabs.Thrower.RaiseBase.NoCtorTypes = new Type[0] [static], [protected]

Stores an empty array of System. Type used to seek constructors without parameters.

Definition at line 43 of file RaiseGeneric.cs.

```
6.24.2.2 readonly Type [] PommaLabs.Thrower.RaiseBase.StrCtorType = { typeof(string) } [static], [protected]
```

Stores the type needed to seek the constructor which takes a string as parameter to instance the exception.

Definition at line 59 of file RaiseGeneric.cs.

```
6.24.2.3 readonly Type [] PommaLabs.Thrower.RaiseBase.StrExCtorTypes = { typeof(string), typeof(Exception) } [static], [protected]
```

Stores the types needed to seek the constructor which takes a string and an exception as parameters to instance the exception.

Definition at line 51 of file RaiseGeneric.cs.

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

· RaiseGeneric.cs

6.25 PommaLabs.Thrower.RaiseHttpException Class Reference

Utility methods which can be used to handle error codes through HTTP.

Static Public Member Functions

- static void If (bool condition, HttpStatusCode httpStatusCode, string message=null)
 - Throws HttpException if given condition is true.
- static void If (bool condition, HttpStatusCode httpStatusCode, string message, HttpExceptionInfo additional ← Info)

Throws HttpException if given condition is true.

- static void IfNot (bool condition, HttpStatusCode httpStatusCode, string message=null)
 - Throws HttpException if given condition is false.
- static void IfNot (bool condition, HttpStatusCode httpStatusCode, string message, HttpExceptionInfo additionalInfo)

Throws HttpException if given condition is false.

6.25.1 Detailed Description

Utility methods which can be used to handle error codes through HTTP.

This class is no longer maintained.

Definition at line 34 of file RaiseHttpException.cs.

6.25.2 Member Function Documentation

6.25.2.1 static void PommaLabs.Thrower.RaiseHttpException.lf (bool condition, HttpStatusCode httpStatusCode, string message = null) [static]

Throws HttpException if given condition is true.

Parameters

condition	The condition.
httpStatusCode	The HTTP status code corresponding to the error.
message	The optional message.

Definition at line 47 of file RaiseHttpException.cs.

6.25.2.2 static void PommaLabs.Thrower.RaiseHttpException.lf (bool condition, HttpStatusCode httpStatusCode, string message, HttpExceptionInfo additionalInfo) [static]

Throws HttpException if given condition is true.

Parameters

condition	The condition.
httpStatusCode	The HTTP status code corresponding to the error.
message	The required message.
additionalInfo	Additional exception info.

Definition at line 67 of file RaiseHttpException.cs.

6.25.2.3 static void PommaLabs.Thrower.RaiseHttpException.lfNot (bool condition, HttpStatusCode httpStatusCode, string message = null) [static]

Throws HttpException if given condition is false.

Parameters

condition	The condition.
httpStatusCode	The HTTP status code corresponding to the error.
message	The optional message.

Definition at line 86 of file RaiseHttpException.cs.

6.25.2.4 static void PommaLabs.Thrower.RaiseHttpException.lfNot (bool condition, HttpStatusCode httpStatusCode, string message, HttpExceptionInfo additionalInfo) [static]

Throws HttpException if given condition is false.

Parameters

condition	The condition.
httpStatusCode	The HTTP status code corresponding to the error.
message	The required message.
additionalInfo	Additional exception info.

Definition at line 106 of file RaiseHttpException.cs.

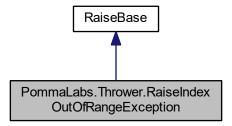
The documentation for this class was generated from the following file:

• Obsolete/RaiseHttpException.cs

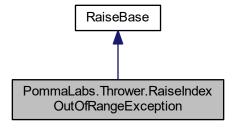
6.26 PommaLabs.Thrower.RaiseIndexOutOfRangeException Class Reference

Utility methods which can be used to handle indexes.

Inheritance diagram for PommaLabs.Thrower.RaiseIndexOutOfRangeException:



Collaboration diagram for PommaLabs.Thrower.RaiseIndexOutOfRangeException:



Static Public Member Functions

- static void IfIsLess< TArg > (TArg argument1, TArg argument2)
 Throws IndexOutOfRangeException if argument1 is less than argument2.
- static void IfIsLess (IComparable argument1, IComparable argument2)

Throws IndexOutOfRangeException if argument1 is less than argument2.

static void IfIsLess< TArg > (TArg argument1, TArg argument2, string message)

Throws IndexOutOfRangeException if argument1 is less than argument2.

• static void IfIsLess (IComparable argument1, IComparable argument2, string message)

Throws IndexOutOfRangeException if argument1 is less than argument2.

static void IfIsLessOrEqual < TArg > (TArg argument1, TArg argument2)

Throws IndexOutOfRangeException if argument1 is less than or equal to argument2.

static void IfIsLessOrEqual (IComparable argument1, IComparable argument2)

Throws IndexOutOfRangeException if argument1 is less than or equal to argument2.

static void IfIsLessOrEqual < TArg > (TArg argument1, TArg argument2, string message)

Throws IndexOutOfRangeException if argument1 is less than or equal to argument2.

static void IfIsLessOrEqual (IComparable argument1, IComparable argument2, string message)

Throws IndexOutOfRangeException if argument1 is less than or equal to argument2 .

static void IfIsGreater < TArg > (TArg argument1, TArg argument2)

Throws IndexOutOfRangeException if argument1 is greater than argument2.

static void IfIsGreater (IComparable argument1, IComparable argument2)

Throws IndexOutOfRangeException if argument1 is greater than argument2.

• static void IfIsGreater< TArg > (TArg argument1, TArg argument2, string message)

Throws IndexOutOfRangeException if argument1 is greater than argument2.

static void lflsGreater (IComparable argument1, IComparable argument2, string message)

Throws IndexOutOfRangeException if argument1 is greater than argument2.

static void IfIsGreaterOrEqual < TArg > (TArg argument1, TArg argument2)

Throws IndexOutOfRangeException if argument1 is greater than or equal to argument2.

static void IfIsGreaterOrEqual (IComparable argument1, IComparable argument2)

Throws IndexOutOfRangeException if argument1 is greater than or equal to argument2.

• static void IfIsGreaterOrEqual < TArg > (TArg argument1, TArg argument2, string message)

Throws IndexOutOfRangeException if argument1 is greater than or equal to argument2.

• static void IfIsGreaterOrEqual (IComparable argument1, IComparable argument2, string message)

Throws IndexOutOfRangeException if argument1 is greater than or equal to argument2.

static void IfIsEqual < TArg > (TArg argument1, TArg argument2)

Throws IndexOutOfRangeException if argument1 is equal to argument2.

static void IfIsEqual (IComparable argument1, IComparable argument2)

Throws IndexOutOfRangeException if argument1 is equal to argument2.

static void lflsEqual< TArg > (TArg argument1, TArg argument2, string message)

Throws IndexOutOfRangeException if argument1 is equal to argument2.

• static void IfIsEqual (IComparable argument1, IComparable argument2, string message)

Throws IndexOutOfRangeException if argument1 is equal to argument2.

static void IfIsNotEqual < TArg > (TArg argument1, TArg argument2)

Throws IndexOutOfRangeException if argument1 is not equal to argument2.

• static void IfIsNotEqual (IComparable argument1, IComparable argument2)

Throws IndexOutOfRangeException if argument1 is not equal to argument2.

static void IfIsNotEqual < TArg > (TArg argument1, TArg argument2, string message)

Throws IndexOutOfRangeException if argument1 is not equal to argument2.

• static void IfIsNotEqual (IComparable argument1, IComparable argument2, string message)

Throws IndexOutOfRangeException if argument1 is not equal to argument2.

Additional Inherited Members

6.26.1 Detailed Description

Utility methods which can be used to handle indexes.

This class is no longer maintained.

Definition at line 35 of file RaiseIndexOutOfRangeException.cs.

6.26.2 Member Function Documentation

6.26.2.1 static void PommaLabs.Thrower.RaiseIndexOutOfRangeException.lflsEqual (IComparable argument1, IComparable argument2) [static]

Throws IndexOutOfRangeException if argument1 is equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Definition at line 413 of file RaiseIndexOutOfRangeException.cs.

6.26.2.2 static void PommaLabs.Thrower.RaiseIndexOutOfRangeException.lflsEqual (IComparable argument1, IComparable argument2, string message) [static]

Throws IndexOutOfRangeException if argument1 is equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
message	The message that should be put into the exception.

Definition at line 457 of file RaiseIndexOutOfRangeException.cs.

6.26.2.3 static void PommaLabs.Thrower.RaiseIndexOutOfRangeException.IfIsEqual < TArg > (TArg argument1, TArg argument2) [static]

Throws IndexOutOfRangeException if argument1 is equal to argument2.

Template Parameters

TArg	The type of the arguments.
------	----------------------------

Parameters

argument1	The left side argument.
argument2	The right side argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 394 of file RaiseIndexOutOfRangeException.cs.

6.26.2.4 static void PommaLabs.Thrower.RaiseIndexOutOfRangeException.IfIsEqual < TArg > (TArg argument1, TArg argument2, string message) [static]

Throws IndexOutOfRangeException if argument1 is equal to argument2.

Template Parameters

Parameters

argument1	The left side argument.
argument2	The right side argument.
message	The message that should be put into the exception.

Type Constraints

TArg: IComparable<TArg>

Definition at line 437 of file RaiseIndexOutOfRangeException.cs.

6.26.2.5 static void PommaLabs.Thrower.RaiseIndexOutOfRangeException.IfIsGreater (IComparable argument1, IComparable argument2) [static]

Throws IndexOutOfRangeException if argument1 is greater than argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Definition at line 241 of file RaiseIndexOutOfRangeException.cs.

6.26.2.6 static void PommaLabs.Thrower.RaiseIndexOutOfRangeException.IfIsGreater (IComparable argument1, IComparable argument2, string message) [static]

Throws IndexOutOfRangeException if argument1 is greater than argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
message	The message that should be put into the exception.

Definition at line 285 of file RaiseIndexOutOfRangeException.cs.

6.26.2.7 static void PommaLabs.Thrower.RaiseIndexOutOfRangeException.IfIsGreater < TArg > (TArg argument1, TArg argument2) [static]

Throws IndexOutOfRangeException if argument1 is greater than argument2.

Template Parameters

TArg	The type of the arguments.
------	----------------------------

Parameters

argument1	The left side argument.
argument2	The right side argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 222 of file RaiseIndexOutOfRangeException.cs.

6.26.2.8 static void PommaLabs.Thrower.RaiseIndexOutOfRangeException.IfIsGreater< TArg > (TArg argument1, TArg argument2, string message) [static]

Throws IndexOutOfRangeException if argument1 is greater than argument2.

Template Parameters

	The type of the arguments.
TΔra	The type of the arguments
ing	The type of the arguments.

Parameters

argument1	The left side argument.
argument2	The right side argument.
message	The message that should be put into the exception.

Type Constraints

TArg: IComparable<TArg>

Definition at line 265 of file RaiseIndexOutOfRangeException.cs.

6.26.2.9 static void PommaLabs.Thrower.RaiseIndexOutOfRangeException.IfIsGreaterOrEqual (IComparable argument1, IComparable argument2) [static]

Throws IndexOutOfRangeException if argument1 is greater than or equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Definition at line 327 of file RaiseIndexOutOfRangeException.cs.

6.26.2.10 static void PommaLabs.Thrower.RaiseIndexOutOfRangeException.lflsGreaterOrEqual (IComparable argument1, IComparable argument2, string message) [static]

Throws IndexOutOfRangeException if argument1 is greater than or equal to argument2.

Parameters

argument1	The left side argument.	
argument2	The right side argument.	
message	The message that should be put into the exception.	

Definition at line 371 of file RaiseIndexOutOfRangeException.cs.

Throws IndexOutOfRangeException if argument1 is greater than or equal to argument2.

Template Parameters

TArg The type of the argu	ments.
---------------------------	--------

Parameters

argument1	The left side argument.
argument2	The right side argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 308 of file RaiseIndexOutOfRangeException.cs.

6.26.2.12 static void PommaLabs.Thrower.RaiseIndexOutOfRangeException.IfIsGreaterOrEqual < TArg > (
TArg argument1, TArg argument2, string message) [static]

Throws IndexOutOfRangeException if argument1 is greater than or equal to argument2.

Template Parameters

TArg	The type of the arguments.
TAIG	The type of the arguments.

Parameters

argument1	The left side argument.	
argument2	The right side argument.	
message	The message that should be put into the exception.	

Type Constraints

TArg: IComparable<TArg>

Definition at line 351 of file RaiseIndexOutOfRangeException.cs.

6.26.2.13 static void PommaLabs.Thrower.RaiseIndexOutOfRangeException.IfIsLess (IComparable argument1, IComparable argument2) [static]

Throws IndexOutOfRangeException if argument1 is less than argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Definition at line 69 of file RaiseIndexOutOfRangeException.cs.

6.26.2.14 static void PommaLabs.Thrower.RaiseIndexOutOfRangeException.lflsLess (IComparable argument1, IComparable argument2, string message) [static]

Throws IndexOutOfRangeException if argument1 is less than argument2.

Parameters

argument1	The left side argument.	
argument2	The right side argument.	
message	The message that should be put into the exception.	

Definition at line 113 of file RaiseIndexOutOfRangeException.cs.

6.26.2.15 static void PommaLabs.Thrower.RaiseIndexOutOfRangeException.IfIsLess< TArg > (TArg argument1, TArg argument2) [static]

Throws IndexOutOfRangeException if argument1 is less than argument2.

Template Parameters

TArg	e type of the arguments.
TArg	e type of the arguments

Parameters

argument1	The left side argument.
argument2	The right side argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 50 of file RaiseIndexOutOfRangeException.cs.

6.26.2.16 static void PommaLabs.Thrower.RaiseIndexOutOfRangeException.IfIsLess< TArg > (TArg argument1, TArg argument2, string message) [static]

Throws IndexOutOfRangeException if argument1 is less than argument2.

Template Parameters

TArg	The type of the arguments.
------	----------------------------

Parameters

	argument1	The left side argument.
Ī	argument2	The right side argument.
Ī	message	The message that should be put into the exception.

Type Constraints

TArg : IComparable<TArg>

Definition at line 93 of file RaiseIndexOutOfRangeException.cs.

6.26.2.17 static void PommaLabs.Thrower.RaiseIndexOutOfRangeException.IfIsLessOrEqual (IComparable argument1, IComparable argument2) [static]

Throws IndexOutOfRangeException if argument1 is less than or equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Definition at line 155 of file RaiseIndexOutOfRangeException.cs.

6.26.2.18 static void PommaLabs.Thrower.RaiseIndexOutOfRangeException.lflsLessOrEqual (IComparable argument1, IComparable argument2, string message) [static]

Throws IndexOutOfRangeException if argument1 is less than or equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
message	The message that should be put into the exception.

Definition at line 199 of file RaiseIndexOutOfRangeException.cs.

6.26.2.19 static void PommaLabs.Thrower.RaiseIndexOutOfRangeException.lfIsLessOrEqual < TArg > (TArg argument1, TArg argument2) [static]

Throws IndexOutOfRangeException if argument1 is less than or equal to argument2.

Template Parameters

TArg	The type of the arguments.
------	----------------------------

Parameters

argument1	The left side argument.
argument2	The right side argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 136 of file RaiseIndexOutOfRangeException.cs.

6.26.2.20 static void PommaLabs.Thrower.RaiseIndexOutOfRangeException.IfIsLessOrEqual < TArg > (TArg argument1, TArg argument2, string message) [static]

Throws IndexOutOfRangeException if argument1 is less than or equal to argument2.

Template Parameters

pe of the arguments.
pe of the arguments

Parameters

argument1	The left side argument.
argument2	The right side argument.
message	The message that should be put into the exception.

Type Constraints

TArg: IComparable<TArg>

Definition at line 179 of file RaiseIndexOutOfRangeException.cs.

6.26.2.21 static void PommaLabs.Thrower.RaiseIndexOutOfRangeException.lflsNotEqual (IComparable argument1, IComparable argument2) [static]

Throws IndexOutOfRangeException if argument1 is not equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Definition at line 499 of file RaiseIndexOutOfRangeException.cs.

6.26.2.22 static void PommaLabs.Thrower.RaiseIndexOutOfRangeException.lflsNotEqual (IComparable argument1, IComparable argument2, string message) [static]

Throws IndexOutOfRangeException if argument1 is not equal to argument2.

Parameters

argument1	The left side argument.
argument2	The right side argument.
message	The message that should be put into the exception.

Definition at line 543 of file RaiseIndexOutOfRangeException.cs.

6.26.2.23 static void PommaLabs.Thrower.RaiseIndexOutOfRangeException.IfIsNotEqual < TArg > (TArg argument1, TArg argument2) [static]

Throws IndexOutOfRangeException if argument1 is not equal to argument2.

Template Parameters

TArg	The type of the arguments.

Parameters

argument1	The left side argument.
argument2	The right side argument.

Type Constraints

TArg: IComparable<TArg>

Definition at line 480 of file RaiseIndexOutOfRangeException.cs.

6.26.2.24 static void PommaLabs.Thrower.RaiseIndexOutOfRangeException.IfIsNotEqual < TArg > (TArg argument1, TArg argument2, string message) [static]

Throws IndexOutOfRangeException if argument1 is not equal to argument2.

Template Parameters

The type of the arguments.	TArg
----------------------------	------

Parameters

argument1	The left side argument.
argument2	The right side argument.
message	The message that should be put into the exception.

Type Constraints

TArg : IComparable<TArg>

Definition at line 523 of file RaiseIndexOutOfRangeException.cs.

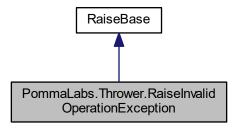
The documentation for this class was generated from the following file:

• Obsolete/RaiseIndexOutOfRangeException.cs

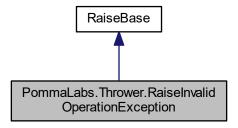
6.27 PommaLabs.Thrower.RaiseInvalidOperationException Class Reference

Utility methods which can be used to handle bad object states.

Inheritance diagram for PommaLabs.Thrower.RaiseInvalidOperationException:



Collaboration diagram for PommaLabs.Thrower.RaiseInvalidOperationException:



Static Public Member Functions

- static void If (bool condition, string message=null)

 Throws InvalidOperationException if given condition is true.
- static void IfNot (bool condition, string message=null)

Throws InvalidOperationException if given condition is false.

Additional Inherited Members

6.27.1 Detailed Description

Utility methods which can be used to handle bad object states.

This class is no longer maintained.

Definition at line 35 of file RaiseInvalidOperationException.cs.

6.27.2 Member Function Documentation

6.27.2.1 static void PommaLabs.Thrower.RaiseInvalidOperationException.If (bool condition, string message = null) [static]

Throws InvalidOperationException if given condition is true.

Parameters

condition	The condition.
message	The optional message.

Definition at line 46 of file RaiseInvalidOperationException.cs.

6.27.2.2 static void PommaLabs.Thrower.RaiseInvalidOperationException.IfNot (bool condition, string message = null) [static]

Throws InvalidOperationException if given condition is false.

Parameters

condition	The condition.
message	The optional message.

Definition at line 63 of file RaiseInvalidOperationException.cs.

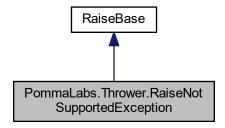
The documentation for this class was generated from the following file:

• Obsolete/RaiseInvalidOperationException.cs

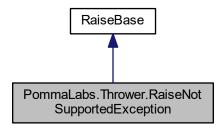
6.28 PommaLabs.Thrower.RaiseNotSupportedException Class Reference

Utility methods which can be used to handle unsupported operations.

 $Inheritance\ diagram\ for\ PommaLabs. Thrower. Raise Not Supported Exception:$



Collaboration diagram for PommaLabs.Thrower.RaiseNotSupportedException:



Static Public Member Functions

- static void If (bool condition, string message=null)
 Throws NotSupportedException if given condition is true.
- static void IfNot (bool condition, string message=null)
 Throws NotSupportedException if given condition is false.

Additional Inherited Members

6.28.1 Detailed Description

Utility methods which can be used to handle unsupported operations.

This class is no longer maintained.

Definition at line 35 of file RaiseNotSupportedException.cs.

6.28.2 Member Function Documentation

6.28.2.1 static void PommaLabs.Thrower.RaiseNotSupportedException.If (bool *condition*, string *message* = null) [static]

Throws NotSupportedException if given condition is true.

Parameters

condition	The c	condition.
message	The c	optional message.

Definition at line 46 of file RaiseNotSupportedException.cs.

6.28.2.2 static void PommaLabs.Thrower.RaiseNotSupportedException.IfNot (bool condition, string message = null) [static]

Throws NotSupportedException if given condition is false.

Parameters

condition	The condition.
message	The optional message.

Definition at line 63 of file RaiseNotSupportedException.cs.

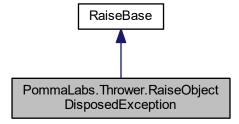
The documentation for this class was generated from the following file:

• Obsolete/RaiseNotSupportedException.cs

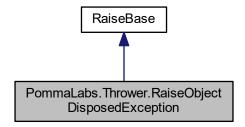
6.29 PommaLabs.Thrower.RaiseObjectDisposedException Class Reference

Utility methods which can be used to handle bad object states.

Inheritance diagram for PommaLabs.Thrower.RaiseObjectDisposedException:



 $Collaboration\ diagram\ for\ PommaLabs. Thrower. Raise Object Disposed Exception:$



Static Public Member Functions

static void If (bool disposed, string objectName, string message=null)
 Throws ObjectDisposedException if the object has been disposed.

Additional Inherited Members

6.29.1 Detailed Description

Utility methods which can be used to handle bad object states.

This class is no longer maintained.

Definition at line 35 of file RaiseObjectDisposedException.cs.

6.29.2 Member Function Documentation

6.29.2.1 static void PommaLabs.Thrower.RaiseObjectDisposedException.If (bool disposed, string objectName, string message = null) [static]

Throws ObjectDisposedException if the object has been disposed.

Parameters

disposed	Whether the object has been disposed or not.
objectName	The required object name.
message	The optional message.

Definition at line 47 of file RaiseObjectDisposedException.cs.

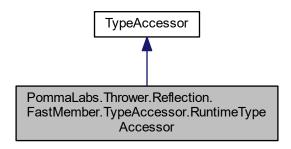
The documentation for this class was generated from the following file:

• Obsolete/RaiseObjectDisposedException.cs

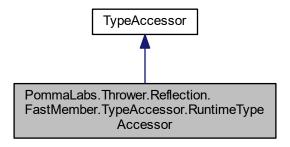
6.30 PommaLabs.Thrower.Reflection.FastMember.TypeAccessor.RuntimeTypeAccessor Class Reference

A TypeAccessor based on a Type implementation, with available member metadata

Inheritance diagram for PommaLabs. Thrower. Reflection. FastMember. TypeAccessor: Runtime TypeAccessor:



Collaboration diagram for PommaLabs.Thrower.Reflection.FastMember.TypeAccessor.RuntimeTypeAccessor:



Public Member Functions

• override MemberSet GetMembers ()

Query the members available for this type

Public Attributes

override bool GetMembersSupported => true
 Can this type be queried for member availability?

Properties

• abstract Type Type [get]

Returns the Type represented by this accessor

6.30.4.1 abstract Type PommaLabs.Thrower.Reflection.FastMember.TypeAccessor.RuntimeTypeAccessor.Type [get], [protected]

Returns the Type represented by this accessor

Definition at line 220 of file TypeAccessor.cs.

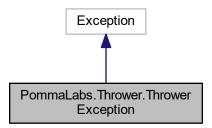
The documentation for this class was generated from the following file:

Reflection/FastMember/TypeAccessor.cs

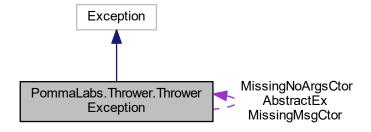
6.31 PommaLabs.Thrower.ThrowerException Class Reference

Exception thrown by Raise<TEx> when the type parameter passed to that class has something invalid (missing constructors, etc).

Inheritance diagram for PommaLabs.Thrower.ThrowerException:



Collaboration diagram for PommaLabs.Thrower.ThrowerException:



6.31.1 Detailed Description

Exception thrown by Raise<TEx> when the type parameter passed to that class has something invalid (missing constructors, etc).

Definition at line 35 of file ThrowerException.cs.

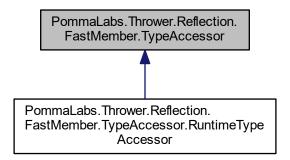
The documentation for this class was generated from the following file:

ThrowerException.cs

6.32 PommaLabs.Thrower.Reflection.FastMember.TypeAccessor Class Reference

Provides by-name member-access to objects of a given type.

Inheritance diagram for PommaLabs.Thrower.Reflection.FastMember.TypeAccessor:



Classes

class RuntimeTypeAccessor

A TypeAccessor based on a Type implementation, with available member metadata

Public Member Functions

virtual object CreateNew ()

Create a new instance of this type.

virtual MemberSet GetMembers ()

Query the members available for this type.

Static Public Member Functions

• static TypeAccessor Create (Type type)

Provides a type-specific accessor, allowing by-name access for all objects of that type.

static TypeAccessor Create< T > ()

Provides a type-specific accessor, allowing by-name access for all objects of that type.

static TypeAccessor Create (Type type, bool allowNonPublicAccessors)

Provides a type-specific accessor, allowing by-name access for all objects of that type.

static TypeAccessor Create < T > (bool allowNonPublicAccessors)

Provides a type-specific accessor, allowing by-name access for all objects of that type.

Public Attributes

virtual bool CreateNewSupported => false

Does this type support new instances via a parameterless constructor?

virtual bool GetMembersSupported => false

Can this type be queried for member availability?

Properties

• abstract object this[object target, string name] [get, set]

Get or set the value of a named member on the target instance

6.32.1 Detailed Description

Provides by-name member-access to objects of a given type.

Definition at line 31 of file TypeAccessor.cs.

6.32.2 Member Function Documentation

6.32.2.1 static TypeAccessor PommaLabs.Thrower.Reflection.FastMember.TypeAccessor.Create (Type *type*) [static]

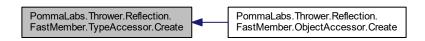
Provides a type-specific accessor, allowing by-name access for all objects of that type.

Parameters

type	The type.
------	-----------

The accessor is cached internally; a pre-existing accessor may be returned.

Here is the caller graph for this function:



6.32.2.2 static TypeAccessor PommaLabs.Thrower.Reflection.FastMember.TypeAccessor.Create (Type type, bool allowNonPublicAccessors) [static]

Provides a type-specific accessor, allowing by-name access for all objects of that type.

Parameters

type	The type.
allowNonPublicAccessors	Allow usage of non public accessors.

The accessor is cached internally; a pre-existing accessor may be returned

Definition at line 75 of file TypeAccessor.cs.

6.32.2.3 static TypeAccessor PommaLabs.Thrower.Reflection.FastMember.TypeAccessor.Create < T > () [static]

Provides a type-specific accessor, allowing by-name access for all objects of that type.

The accessor is cached internally; a pre-existing accessor may be returned.

6.32.2.4 static TypeAccessor PommaLabs.Thrower.Reflection.FastMember.TypeAccessor.Create < T > (bool allowNonPublicAccessors) [static]

Provides a type-specific accessor, allowing by-name access for all objects of that type.

Parameters

allowNonPublicAccessors Allow usage of non public accessors.

The accessor is cached internally; a pre-existing accessor may be returned.

6.32.2.5 virtual object PommaLabs.Thrower.Reflection.FastMember.TypeAccessor.CreateNew() [virtual]

Create a new instance of this type.

Definition at line 44 of file TypeAccessor.cs.

6.32.2.6 virtual MemberSet PommaLabs.Thrower.Reflection.FastMember.TypeAccessor.GetMembers() [virtual]

Query the members available for this type.

Reimplemented in PommaLabs.Thrower.Reflection.FastMember.TypeAccessor.RuntimeTypeAccessor.

Definition at line 54 of file TypeAccessor.cs.

Here is the caller graph for this function:



6.32.3 Member Data Documentation

6.32.3.1 virtual bool PommaLabs.Thrower.Reflection.FastMember.TypeAccessor.CreateNewSupported => false

Does this type support new instances via a parameterless constructor?

Definition at line 39 of file TypeAccessor.cs.

6.32.3.2 virtual bool PommaLabs.Thrower.Reflection.FastMember.TypeAccessor.GetMembersSupported => false

Can this type be queried for member availability?

Definition at line 49 of file TypeAccessor.cs.

6.32.4 Property Documentation

6.32.4.1 abstract object PommaLabs.Thrower.Reflection.FastMember.TypeAccessor.this[object target, string name] [get], [set]

Get or set the value of a named member on the target instance

Definition at line 429 of file TypeAccessor.cs.

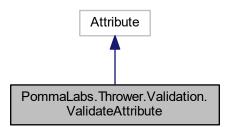
The documentation for this class was generated from the following file:

• Reflection/FastMember/TypeAccessor.cs

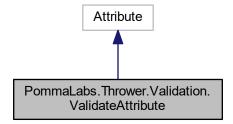
6.33 PommaLabs.Thrower.Validation.ValidateAttribute Class Reference

Indicates that the property should be validated.

Inheritance diagram for PommaLabs.Thrower.Validation.ValidateAttribute:



Collaboration diagram for PommaLabs.Thrower.Validation.ValidateAttribute:



Properties

• bool Required [get, set]

Indicates that the property is required, that is, it will be checked against null.

• bool Enumerable = false [get, set]

If the property is an IEnumerable, then this flag controls whether it should enumerated or not.

• bool EnumerableItemsRequired = true [get, set]

If the property is an IEnumerable, then this flag controls whether its items are required or not.

• long CollectionItemsMinCount = false [get, set]

If the property is an ICollection, then this flag controls the minimum value for ICollection. Count.

• long CollectionItemsMaxCount = 0L [get, set]

If the property is an ICollection, then this flag controls the maximum value for ICollection. Count.

6.33.1 Detailed Description

Indicates that the property should be validated.

Definition at line 33 of file ValidateAttribute.cs.

6.33.2 Property Documentation

 $\textbf{6.33.2.1} \quad \textbf{long PommaLabs.Thrower.Validation.ValidateAttribute.CollectionItemsMaxCount = 0L} \quad \texttt{[get], [set]}$

If the property is an ICollection, then this flag controls the maximum value for ICollection.Count.

Default value is long.MaxValue.

Definition at line 76 of file ValidateAttribute.cs.

6.33.2.2 long PommaLabs.Thrower.Validation.ValidateAttribute.CollectionItemsMinCount = false [get], [set]

If the property is an ICollection, then this flag controls the minimum value for ICollection. Count.

Default value is 0L

Definition at line 68 of file ValidateAttribute.cs.

6.33.2.3 bool PommaLabs.Thrower.Validation.ValidateAttribute.Enumerable = false [get], [set]

If the property is an IEnumerable, then this flag controls whether it should enumerated or not.

Default value is true.

Definition at line 48 of file ValidateAttribute.cs.

6.33.2.4 bool PommaLabs.Thrower.Validation.ValidateAttribute.EnumerableItemsRequired = true [get], [set]

If the property is an IEnumerable, then this flag controls whether its items are required or not.

Default value is false.

Definition at line 56 of file ValidateAttribute.cs.

6.33.2.5 bool PommaLabs.Thrower.Validation.ValidateAttribute.Required [get], [set]

Indicates that the property is required, that is, it will be checked against null.

Default value is false.

Definition at line 40 of file ValidateAttribute.cs.

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

· Validation/ValidateAttribute.cs

6.34 PommaLabs, Thrower, Validation, Validation Error Struct Reference

Represents an error found while validating an object.

Properties

```
    string Path [get, set]
        The path to the wrong property.

    string Reason [get, set]
        What caused the error.
```

6.34.1 Detailed Description

Represents an error found while validating an object.

Definition at line 32 of file ValidationError.cs.

6.34.2 Property Documentation

```
6.34.2.1 string PommaLabs.Thrower.Validation.ValidationError.Path [get], [set]
```

The path to the wrong property.

Definition at line 37 of file ValidationError.cs.

```
6.34.2.2 string PommaLabs.Thrower.Validation.ValidationError.Reason [get], [set]
```

What caused the error.

Definition at line 42 of file ValidationError.cs.

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

· Validation/ValidationError.cs

Chapter 7

File Documentation

7.1 ExceptionHandlers/ArgumentExceptionHandler.cs File Reference

Classes

class PommaLabs.Thrower.ExceptionHandlers.ArgumentExceptionHandler
 Handler for ArgumentException

Namespaces

namespace PommaLabs.Thrower.ExceptionHandlers

7.2 ArgumentExceptionHandler.cs

```
00001 // File name: ArgumentExceptionHandler.cs
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00004 //
00005 // The MIT License (MIT) 00006 //
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00008 //
000009 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and 00010 // associated documentation files (the "Software"), to deal in the Software without restriction, 00011 // including without limitation the rights to use, copy, modify, merge, publish, distribute, 00012 // sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
00013 // furnished to do so, subject to the following conditions:
00015 // The above copyright notice and this permission notice shall be included in all copies or 00016 // substantial portions of the Software.
00017 //
00018 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT 00019 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
00020 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00023
00024 using PommaLabs. Thrower. Validation;
00025 using System;
00026 using System.Collections.Generic;
00027
00028 #pragma warning disable CC0091 // Use static method
00029
00030 namespace PommaLabs.Thrower.ExceptionHandlers
00031 {
00035
              public sealed class ArgumentExceptionHandler
00036
```

160 File Documentation

```
00037
              #region If
00038
00039
               private const string DefaultIfMessage = "Argument is not valid";
00040
00046
               public void If (bool condition)
00047
00048
                   if (condition)
00049
00050
                       throw new ArgumentException(DefaultIfMessage);
00051
00052
              }
00053
00064
              public void If(bool condition, string argumentName, string message = null)
00065
00066
                   if (condition)
00067
                       throw new ArgumentException (message ?? DefaultIfMessage, argumentName);
00068
00069
                   }
00070
00071
00072
               #endregion If
00073
00074
               #region IfNot
00075
00081
              public void IfNot (bool condition)
00082
00083
                   if (!condition)
00084
00085
                       throw new ArgumentException(DefaultIfMessage);
00086
00087
00088
00099
              public void IfNot(bool condition, string argumentName, string message = null)
00100
00101
                   if (!condition)
00102
00103
                       throw new ArgumentException (message ?? DefaultIfMessage, argumentName);
00104
00105
00106
00107
               #endregion IfNot
00108
               #region IfTsNotValid
00109
00110
00117
              public void IfIsNotValid<TArg>(TArg argument)
00118
00119
                   IList<ValidationError> validationErrors;
00120
                   if (!ObjectValidator.Validate(argument, out validationErrors))
00121
                       throw new ArgumentException(ObjectValidator.
00122
      FormatValidationErrors(validationErrors, null));
00123
00124
              }
00125
              public void IfIsNotValid<TArg>(TArg argument, string argumentName, string message = null)
00137
00138
00139
                   IList<ValidationError> validationErrors;
00140
                   if (!ObjectValidator.Validate(argument, out validationErrors))
00141
00142
                       throw new ArgumentException(ObjectValidator.
      Format Validation {\tt Errors} \, ({\tt validation Errors}, \,\, {\tt message}) \, , \,\, {\tt argument Name}) \, ;
00143
00144
              }
00145
00146
              #endregion IfIsNotValid
00147
00148
              #region IfIsNotValidEmailAddress
00149
              private const string DefaultIfIsNotValidEmailAddressMessage = "String \"\{0\}\" is not a valid email
00150
       address";
00151
00157
              public void IfIsNotValidEmailAddress(string emailAddress)
00158
                   if (!EmailAddressValidator.Validate(emailAddress))
00159
00160
                   {
                       var exceptionMsg = string.Format(DefaultIfIsNotValidEmailAddressMessage, emailAddress);
00161
00162
                       throw new ArgumentException(exceptionMsg);
00163
00164
00165
              public void IfIsNotValidEmailAddress(string emailAddress,
00172
      EmailAddressValidator.Options validatorOptions)
00173
              {
00174
                   if (!EmailAddressValidator.Validate(emailAddress, validatorOptions
00175
00176
                       var exceptionMsg = string.Format(DefaultIfIsNotValidEmailAddressMessage, emailAddress);
```

```
00177
                      throw new ArgumentException(exceptionMsg);
00178
00179
              }
00180
00191
              public void IfIsNotValidEmailAddress(string emailAddress, string
      argumentName, string message = null)
00192
              {
00193
                  if (!EmailAddressValidator.Validate(emailAddress))
00194
00195
                      var exceptionMsg = message ?? string.Format(DefaultIfIsNotValidEmailAddressMessage,
      emailAddress);
00196
                      throw new ArgumentException(exceptionMsg, argumentName);
00197
                  }
00198
00199
              public void IfIsNotValidEmailAddress(string emailAddress, string
00211
      argumentName, EmailAddressValidator.Options validatorOptions, string message = null)
00212
              {
00213
                  if (!EmailAddressValidator.Validate(emailAddress, validatorOptions
      ))
00214
00215
                      var exceptionMsg = message ?? string.Format(DefaultIfIsNotValidEmailAddressMessage,
      emailAddress):
00216
                      throw new ArgumentException(exceptionMsg, argumentName);
00217
                  }
00218
              }
00219
00220
              #endregion IfIsNotValidEmailAddress
00221
00222
              #region IfIsNotValidPhoneNumber
00223
00224
              private const string DefaultIfIsNotValidPhoneNumberMessage = "String \"{0}\" is not a valid phone
00225
00231
              public void IfIsNotValidPhoneNumber(string phoneNumber)
00232
00233
                  if (!PhoneNumberValidator.Validate(phoneNumber))
00234
00235
                      var exceptionMsg = string.Format(DefaultIfIsNotValidPhoneNumberMessage, phoneNumber);
00236
                      throw new ArgumentException(exceptionMsg);
00237
00238
              }
00239
00250
              public void IfIsNotValidPhoneNumber(string phoneNumber, string argumentName,
       string message = null)
00251
00252
                  if (!PhoneNumberValidator.Validate(phoneNumber))
00253
                  {
                      var exceptionMsg = message ?? string.Format(DefaultIfIsNotValidPhoneNumberMessage,
00254
     phoneNumber);
00255
                      throw new ArgumentException(exceptionMsg, argumentName);
00256
00257
              }
00258
00259
              #endregion IfIsNotValidPhoneNumber
00260
00261
              #region String validation
00262
00263
              private const string StringIsNullOrEmptyMessage = "Argument cannot be a null or empty string";
00264
              private const string StringIsNullOrWhiteSpaceMessage = "Argument cannot be a null, empty or blank
       string":
00265
00271
              public void IfIsNullOrEmpty(string value)
00272
00273
                  if (ReferenceEquals(value, null) || string.Empty.Equals(value))
00274
                  {
00275
                      throw new ArgumentException(StringIsNullOrEmptyMessage);
00276
                  }
00277
              }
00278
              public void IfIsNullOrEmpty(string value, string argumentName, string message = null
00289
00290
00291
                  if (ReferenceEquals(value, null) || string.Empty.Equals(value))
00292
                  {
00293
                      throw new ArgumentException(message ?? StringIsNullOrEmptyMessage, argumentName);
00294
00295
              }
00296
00302
              public void IfIsNullOrWhiteSpace(string value)
00303
00304
                  if (ReferenceEquals(value, null) || string.Empty.Equals(value.Trim()))
00305
00306
                      throw new ArgumentException(StringIsNullOrWhiteSpaceMessage);
00307
00308
              }
00309
```

```
public void IfIsNullOrWhiteSpace(string value, string argumentName, string
     message = null)
00321
              {
00322
                  if (ReferenceEquals(value, null) || string.Empty.Equals(value.Trim()))
00323
                  {
                      throw new ArgumentException (message ?? StringIsNullOrWhiteSpaceMessage, argumentName);
00324
00325
00326
00327
00328
              #endregion String validation
00329
00330
              #region Collection validation
00331
              internal const string CollectionIsNullOrEmptyMessage = "Argument cannot be a null or empty
       collection";
00333
              public void IfIsNullOrEmpty<TItem>(ICollection<TItem> value)
00340
00341
00342
                  if (ReferenceEquals(value, null) || value.Count == 0)
00343
                  {
00344
                      throw new ArgumentException(CollectionIsNullOrEmptyMessage);
00345
00346
              }
00347
              public void IfIsNullOrEmpty<TItem>(ICollection<TItem> value, string argumentName, string message =
00359
     null)
00360
00361
                  if (ReferenceEquals(value, null) || value.Count == 0)
00362
00363
                      throw new ArgumentException (message ?? CollectionIsNullOrEmptyMessage, argumentName);
00364
00365
              }
00366
00367
              #endregion Collection validation
00368
          }
00369 }
00370
00371 #pragma warning restore CC0091 // Use static method
```

7.3 ExceptionHandlers/ArgumentNullExceptionHandler.cs File Reference

Classes

• class PommaLabs.Thrower.ExceptionHandlers.ArgumentNullExceptionHandler Handler for ArgumentNullException.

Namespaces

· namespace PommaLabs.Thrower.ExceptionHandlers

7.4 ArgumentNullExceptionHandler.cs

```
00001 // File name: ArgumentNullExceptionHandler.cs
00002 //
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00004 //
00005 // The MIT License (MIT)
00006 //
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00008 //
00009 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and 00010 // associated documentation files (the "Software"), to deal in the Software without restriction,
00011 // including without limitation the rights to use, copy, modify, merge, publish, distribute,
00012 // sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
00013 // furnished to do so, subject to the following conditions:
00014 //
00015 // The above copyright notice and this permission notice shall be included in all copies or
00016 \!\!\!\!// substantial portions of the Software.
00018 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT
```

```
00019 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
00020 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00023
00024 using PommaLabs. Thrower. Reflection;
00025 using System;
00026
00027 #pragma warning disable CC0091 // Use static method
00028
00029 namespace PommaLabs. Thrower. Exception Handlers
00030 {
00034
          public sealed class ArgumentNullExceptionHandler
00035
00036
              private const string DefaultMessage = "Argument, or a nested object, is null";
00037
00038
              #region If
00039
00045
              public void If(bool condition)
00046
00047
                  if (condition)
00048
00049
                      throw new ArgumentNullException();
00050
00051
              }
00052
00063
              public void If(bool condition, string argumentName, string message = null)
00064
00065
                  if (condition)
00066
00067
                      throw new ArgumentNullException(argumentName, message ?? DefaultMessage);
00068
                  }
00069
00070
00071
              #endregion If
00072
00073
              #region Classes
00074
00081
              public void IfIsNull<TArg>(TArg argument)
00082
00083
                  if (!PortableTypeInfo.IsValueType(typeof(TArg)) && ReferenceEquals(
     argument, null))
00084
                 {
00085
                      throw new ArgumentNullException();
00086
                  }
00087
              }
00088
00097
              public void IfIsNull<TArg>(TArg argument, string argumentName, string message = null)
00098
00099
                  if (!PortableTypeInfo.IsValueType(typeof(TArg)) && ReferenceEquals(
     argument, null))
00100
                 {
00101
                      throw new ArgumentNullException(argumentName, message ?? DefaultMessage);
00102
                  }
00103
              }
00104
00105
              #endregion Classes
00106
00107
              #region Nullable structs
00108
00115
              public void IfIsNull<TArg>(TArg? argument)
00116
                  where TArg : struct
00117
00118
                  if (!argument.HasValue)
00119
00120
                      throw new ArgumentNullException();
00121
                  }
00122
              }
00123
00130
              public void IfIsNull<TArg>(ref TArg? argument)
00131
                  where TArg : struct
00132
00133
                  if (!argument.HasValue)
00134
00135
                      throw new ArgumentNullException();
00136
                  }
00137
              }
00138
00147
              public void IfIsNull<TArg>(TArg? argument, string argumentName, string message = null)
00148
                  where TArg : struct
00149
                  if (!argument.HasValue)
00150
00151
                  {
00152
                      throw new ArgumentNullException(argumentName, message ?? DefaultMessage);
00153
00154
              }
00155
```

```
public void IfIsNull<TArg>(ref TArg? argument, string argumentName, string message = null)
00165
                  where TArg : struct
00166
              {
00167
                  if (!argument.HasValue)
00168
00169
                      throw new ArgumentNullException(argumentName, message ?? DefaultMessage);
00170
00171
00172
00173
              #endregion Nullable structs
00174
         }
00175 }
00176
00177 #pragma warning restore CC0091 // Use static method
```

7.5 ExceptionHandlers/ArgumentOutOfRangeExceptionHandler.cs File Reference

Classes

class PommaLabs.Thrower.ExceptionHandlers.ArgumentOutOfRangeExceptionHandler
 Handler for System.ArgumentOutOfRangeException

Namespaces

· namespace PommaLabs.Thrower.ExceptionHandlers

7.6 ArgumentOutOfRangeExceptionHandler.cs

```
00001 // File name: ArgumentOutOfRangeExceptionHandler.cs
00002 //
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00004 //
00005 // The MIT License (MIT)
00006 //
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00008 //
00009 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and
00010 // associated documentation files (the "Software"), to deal in the Software without restriction, 00011 // including without limitation the rights to use, copy, modify, merge, publish, distribute,
00012 // sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
00013 \/\/ furnished to do so, subject to the following conditions:
00014 //
00015 ^{\prime\prime} The above copyright notice and this permission notice shall be included in all copies or
00016 // substantial portions of the Software.
00017 //
00018 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT 00019 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
00020 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00024 using System;
00025
00026 #pragma warning disable CC0091 // Use static method
00027
00028 namespace PommaLabs. Thrower. Exception Handlers
00029 {
           public sealed class ArgumentOutOfRangeExceptionHandler
00033
00034
00035
                #region If
00036
00042
                public void If(bool condition, string argumentName = null)
00043
00044
                    if (condition)
00045
00046
                         throw string.IsNullOrEmpty(argumentName) ? new ArgumentOutOfRangeException() : new
      ArgumentOutOfRangeException(argumentName);
00047
00048
00049
```

```
00059
              public void If(bool condition, string argumentName, string message)
00060
00061
                   if (condition)
00062
                   {
00063
                       throw new ArgumentOutOfRangeException(argumentName, message);
00064
                   }
00065
00066
00067
              #endregion If
00068
00069
              #region IfNot
00070
00076
              public void IfNot(bool condition, string argumentName = null)
00077
00078
                   if (!condition)
00079
                       throw string.IsNullOrEmpty(argumentName) ? new ArgumentOutOfRangeException() : new
08000
      ArgumentOutOfRangeException(argumentName);
00081
00082
00083
00093
              public void IfNot(bool condition, string argumentName, string message)
00094
00095
                   if (!condition)
00096
00097
                       throw new ArgumentOutOfRangeException(argumentName, message);
00098
00099
00100
00101
              #endregion IfNot
00102
00103
              #region Less - Without parameter name, without message
00104
00112
              public void IfIsLess<TArg>(TArg argument1, TArg argument2)
00113
                  where TArg : IComparable<TArg>
00114
00115
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) < 0)</pre>
00116
00117
                       throw new ArgumentOutOfRangeException();
00118
00119
              }
00120
              public void IfIsLess (IComparable argument1, IComparable argument2)
00127
00128
00129
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) < 0)</pre>
00130
00131
                       throw new ArgumentOutOfRangeException();
00132
                   }
00133
              }
00134
00135
              #endregion Less - Without parameter name, without message
00136
00137
              #region Less - With parameter name, without message
00138
              public void IfIsLess<TArg>(TArg argument1, TArg argument2, string argumentName)
00147
00148
                  where TArg : IComparable<TArg>
00150
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) < 0)</pre>
00151
00152
                       throw new ArgumentOutOfRangeException(argumentName);
00153
                   }
00154
00155
00163
              public void IfIsLess(IComparable argument1, IComparable argument2, string argumentName)
00164
00165
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) < 0)</pre>
00166
                   {
                       throw new ArgumentOutOfRangeException(argumentName);
00167
00168
00169
00170
00171
              #endregion Less - With parameter name, without message
00172
00173
              #region Less - With parameter name, with message
00174
00184
              public void IfIsLess<TArg>(TArg argument1, TArg argument2, string argumentName, string message)
00185
                  where TArg : IComparable<TArg>
00186
00187
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) < 0)</pre>
00188
                   {
00189
                       throw new ArgumentOutOfRangeException(argumentName, argument1, message);
00190
                   }
00191
00192
00201
              public void IfIsLess(IComparable argument1, IComparable argument2, string argumentName,
      string message)
00202
              {
```

```
if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) < 0)</pre>
00204
00205
                       throw new ArgumentOutOfRangeException(argumentName, argument1, message);
00206
                   }
00207
              }
00208
00209
              #endregion Less - With parameter name, with message
00210
00211
              #region LessEqual - Without parameter name, without message
00212
              public void IfIsLessOrEqual<TArg>(TArg argument1, TArg argument2)
00220
00221
                  where TArg : IComparable<TArg>
00222
00223
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) <= 0)
00224
00225
                       throw new ArgumentOutOfRangeException();
00226
                   }
00227
              }
00228
00235
              public void IfIsLessOrEqual(IComparable argument1, IComparable argument2)
00236
00237
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) <= 0)</pre>
00238
                   {
00239
                       throw new ArgumentOutOfRangeException();
00240
                   }
00241
              }
00242
00243
              #endregion LessEqual - Without parameter name, without message
00244
00245
              #region LessEqual - With parameter name, without message
00246
              public void IfIsLessOrEqual<TArg>(TArg argument1, TArg argument2, string argumentName)
00256
                  where TArg : IComparable<TArg>
00257
00258
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) <= 0)</pre>
00259
00260
                       throw new ArgumentOutOfRangeException(argumentName);
00261
00262
              }
00263
00271
              public void IfIsLessOrEqual(IComparable argument1, IComparable argument2, string
     argumentName)
00272
              {
00273
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) <= 0)</pre>
00274
                  {
00275
                       throw new ArgumentOutOfRangeException(argumentName);
00276
00277
00278
00279
              #endregion LessEqual - With parameter name, without message
00280
00281
              #region LessEqual - With parameter name, with message
00282
00292
              public void IfIsLessOrEqual<TArg>(TArg argument1, TArg argument2, string argumentName, string
     message)
00293
                  where TArg : IComparable<TArg>
00294
00295
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) <= 0)</pre>
00296
00297
                       throw new ArgumentOutOfRangeException(argumentName, argument1, message);
00298
00299
00300
00309
              public void IfIsLessOrEqual(IComparable argument1, IComparable argument2, string
      argumentName, string message)
00310
              {
00311
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) <= 0)</pre>
00312
00313
                       throw new ArgumentOutOfRangeException(argumentName, argument1, message);
00314
                  }
00315
              }
00316
00317
              #endregion LessEqual - With parameter name, with message
00318
00319
              #region Greater - Without parameter name, without message
00320
00328
              public void IfIsGreater<TArg>(TArg argument1, TArg argument2)
00329
                  where TArg : IComparable<TArg>
00330
              {
00331
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) > 0)
00332
                   {
00333
                       throw new ArgumentOutOfRangeException();
00334
00335
              }
00336
00343
              public void IfIsGreater (IComparable argument1, IComparable argument2)
00344
```

```
00345
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) > 0)
00346
00347
                      throw new ArgumentOutOfRangeException();
00348
00349
              }
00350
00351
              #endregion Greater - Without parameter name, without message
00352
00353
              #region Greater - With parameter name, without message
00354
              public void IfIsGreater<TArg>(TArg argument1, TArg argument2, string argumentName)
00363
00364
                  where TArg : IComparable<TArg>
00365
00366
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) > 0)
00367
00368
                      throw new ArgumentOutOfRangeException(argumentName);
00369
                  }
00370
              }
00371
00379
              public void IfIsGreater (IComparable argument1, IComparable argument2, string
00380
              {
00381
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) > 0)
00382
00383
                      throw new ArgumentOutOfRangeException(argumentName);
00384
00385
              }
00386
00387
              #endregion Greater - With parameter name, without message
00388
00389
              #region Greater - With parameter name, with message
00390
00400
              public void IfIsGreater<TArg>(TArg argument1, TArg argument2, string argumentName, string message)
00401
                  where TArg : IComparable<TArg>
00402
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) > 0)
00403
00404
                  {
00405
                      throw new ArgumentOutOfRangeException(argumentName, argument1, message);
00406
                  }
00407
00408
              public void IfIsGreater (IComparable argument1, IComparable argument2, string
00417
     argumentName, string message)
00418
              {
00419
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) > 0)
00420
00421
                      throw new ArgumentOutOfRangeException(argumentName, argument1, message);
00422
                  }
00423
              }
00424
00425
              #endregion Greater - With parameter name, with message
00426
00427
              #region GreaterEqual - Without parameter name, without message
00428
              public void IfIsGreaterOrEqual<TArg>(TArg argument1, TArg argument2)
00436
00437
                  where TArg : IComparable<TArg>
00438
00439
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) >= 0)
00440
00441
                      throw new ArgumentOutOfRangeException();
00442
                  }
00443
              }
00444
00451
              public void IfIsGreaterOrEqual(IComparable argument1, IComparable argument2)
00452
00453
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) >= 0)
00454
                  {
00455
                      throw new ArgumentOutOfRangeException();
00456
00457
              }
00458
00459
              #endregion GreaterEqual - Without parameter name, without message
00460
00461
              #region GreaterEqual - With parameter name, without message
00462
00471
              public void IfIsGreaterOrEqual<TArg>(TArg argument1, TArg argument2, string argumentName)
00472
                  where TArg : IComparable<TArg>
00473
00474
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) >= 0)
00475
                  {
00476
                      throw new ArgumentOutOfRangeException(argumentName);
00477
                  }
00478
00479
00487
              public void IfIsGreaterOrEqual(IComparable argument1, IComparable argument2,
      string argumentName)
00488
```

```
00489
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) >= 0)
00490
00491
                      throw new ArgumentOutOfRangeException(argumentName);
00492
                  }
00493
              }
00494
00495
              #endregion GreaterEqual - With parameter name, without message
00496
00497
              #region GreaterEqual - With parameter name, with message
00498
              public void IfIsGreaterOrEqual<TArg> (TArg argument1, TArg argument2, string argumentName, string
00508
     message)
00509
                  where TArg : IComparable<TArg>
00510
00511
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) >= 0)
00512
00513
                      throw new ArgumentOutOfRangeException(argumentName, argument1, message);
00514
                  }
00515
              }
00516
              public void IfIsGreaterOrEqual(IComparable argument1, IComparable argument2,
00525
      string argumentName, string message)
00526
              {
00527
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) >= 0)
00528
                  {
00529
                      throw new ArgumentOutOfRangeException(argumentName, argument1, message);
00530
00531
00532
00533
              #endregion GreaterEqual - With parameter name, with message
00534
00535
              #region Equal - Without parameter name, without message
00536
00544
              public void IfIsEqual<TArg>(TArg argument1, TArg argument2)
00545
                  where TArg : IComparable<TArg>
00546
00547
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) == 0)
00548
00549
                      throw new ArgumentOutOfRangeException();
00550
00551
              }
00552
00559
              public void IfIsEqual (IComparable argument1, IComparable argument2)
00560
00561
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) == 0)
00562
00563
                      throw new ArgumentOutOfRangeException();
00564
                  }
00565
              }
00566
00567
              #endregion Equal - Without parameter name, without message
00568
00569
              #region Equal - With parameter name, without message
00570
00579
              public void IfIsEqual<TArg>(TArg argument1, TArg argument2, string argumentName)
00580
                  where TArg : IComparable<TArg>
00581
00582
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) == 0)
00583
                  {
00584
                      throw new ArgumentOutOfRangeException(argumentName);
00585
                  }
00586
              }
00587
00595
              public void IfIsEqual(IComparable argument1, IComparable argument2, string argumentName)
00596
00597
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) == 0)
00598
                  {
00599
                      throw new ArgumentOutOfRangeException(argumentName);
00600
                  }
00601
              }
00602
00603
              #endregion Equal - With parameter name, without message
00604
00605
              #region Equal - With parameter name, with message
00606
              public void IfIsEqual<TArg>(TArg argument1, TArg argument2, string argumentName, string message)
00616
00617
                  where TArg : IComparable<TArg>
00618
00619
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) == 0)
00620
                  {
                      throw new ArgumentOutOfRangeException(argumentName, argument1, message);
00621
00622
                  }
00623
00624
00633
              public void IfIsEqual(IComparable argument1, IComparable argument2, string argumentName,
      string message)
00634
              {
```

```
if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) == 0)
00636
00637
                      throw new ArgumentOutOfRangeException(argumentName, argument1, message);
00638
00639
              }
00640
00641
              #endregion Equal - With parameter name, with message
00642
00643
              #region NotEqual - Without parameter name, without message
00644
              public void IfIsNotEqual<TArg>(TArg argument1, TArg argument2)
00652
00653
                  where TArg : IComparable<TArg>
00654
00655
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) != 0)
00656
00657
                      throw new ArgumentOutOfRangeException();
00658
                  }
00659
              }
00660
              public void IfIsNotEqual(IComparable argument1, IComparable argument2)
00668
00669
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) != 0)
00670
                  {
00671
                      throw new ArgumentOutOfRangeException();
00672
                  }
00673
              }
00674
00675
              #endregion NotEqual - Without parameter name, without message
00676
00677
              #region NotEqual - With parameter name, without message
00678
              public void IfIsNotEqual<TArg>(TArg argument1, TArg argument2, string argumentName)
00688
                  where TArg : IComparable<TArg>
00689
00690
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) != 0)
00691
00692
                      throw new ArgumentOutOfRangeException(argumentName);
00693
00694
              }
00695
00703
              \verb"public void IfIsNotEqual" (IComparable argument1, IComparable argument2, string
     argumentName)
00704
              {
00705
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) != 0)
00706
                  {
00707
                      throw new ArgumentOutOfRangeException(argumentName);
00708
00709
              }
00710
00711
              #endregion NotEqual - With parameter name, without message
00712
00713
              #region NotEqual - With parameter name, with message
00714
00724
              public void IfIsNotEqual<TArg>(TArg argument1, TArg argument2, string argumentName, string message)
00725
                  where TArg : IComparable<TArg>
00726
              {
00727
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) != 0)
00728
                  {
00729
                      throw new ArgumentOutOfRangeException(argumentName, argument1, message);
00730
                  }
00731
              }
00732
00741
              public void IfIsNotEqual(IComparable argument1, IComparable argument2, string
     argumentName, string message)
00742
00743
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) != 0)
00744
00745
                      throw new ArgumentOutOfRangeException(argumentName, argument1, message);
00746
00747
              }
00748
00749
              #endregion NotEqual - With parameter name, with message
00750
          }
00751 }
00752
00753 #pragma warning restore CC0091 // Use static method
```

7.7 ExceptionHandlers/GenericExceptionHandler.cs File Reference

Classes

• class PommaLabs.Thrower.ExceptionHandlers.GenericExceptionHandler< TException >

Generic handler used for common exceptions like NotSupportedException.

Namespaces

· namespace PommaLabs.Thrower.ExceptionHandlers

7.8 GenericExceptionHandler.cs

```
00001 // File name: GenericExceptionHandler.cs
00002 /
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00005 // The MIT License (MIT)
00006 //
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00008 //
00009 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and 00010 // associated documentation files (the "Software"), to deal in the Software without restriction,
00011 // including without limitation the rights to use, copy, modify, merge, publish, distribute,
00012 // sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
00013 // furnished to do so, subject to the following conditions:
00014 ^{\prime\prime} 00015 ^{\prime\prime} The above copyright notice and this permission notice shall be included in all copies or
00016 // substantial portions of the Software.
00018 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT 00019 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
00020 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00024 using System;
00025
00026 namespace PommaLabs.Thrower.ExceptionHandlers
00027 {
00032
           public abstract class GenericExceptionHandler<TException>
00033
               where TException : Exception, new()
00034
00035
                #region Abstract members
00036
00042
                protected abstract TException NewWithMessage(string message);
00043
00044
                #endregion Abstract members
00045
00046
                #region Public members
00047
00056
                public void If(bool condition, string message = null)
00057
00058
                    if (condition)
00060
                         throw string.IsNullOrEmpty(message) ? new TException() : NewWithMessage(message);
00061
00062
00063
00072
                public void IfNot (bool condition, string message = null)
00073
00074
                     if (!condition)
00075
00076
                         throw string.IsNullOrEmpty(message) ? new TException() : NewWithMessage(message);
00077
00078
00079
00080
                #endregion Public members
00081
00082 }
```

7.9 ExceptionHandlers/HttpExceptionHandler.cs File Reference

Classes

class PommaLabs.Thrower.ExceptionHandlers.HttpExceptionHandler
 Handler for HttpException

Namespaces

• namespace PommaLabs.Thrower.ExceptionHandlers

7.10 HttpExceptionHandler.cs

```
00001 // File name: HttpExceptionHandler.cs
00002 //
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00004 //
00005 // The MIT License (MIT)
00006 //
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00008 //
00009 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and 00010 // associated documentation files (the "Software"), to deal in the Software without restriction,
00011 // including without limitation the rights to use, copy, modify, merge, publish, distribute,
00012 // sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
00013 // furnished to do so, subject to the following conditions:
00014 //
00015 // The above copyright notice and this permission notice shall be included in all copies or
00016 // substantial portions of the Software.
00017 //
00018 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT
00019 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
00020 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00023
00024 using System.Net;
00025
00026 #pragma warning disable CC0091 // Use static method
00027
00028 namespace PommaLabs.Thrower.ExceptionHandlers
00029 {
          public sealed class HttpExceptionHandler
00034
              public void If(bool condition, HttpStatusCode httpStatusCode, string message = null)
00043
                   if (condition)
00044
00045
                       throw string.IsNullOrEmpty(message) ? new HttpException(httpStatusCode) : new
00046
     HttpException(httpStatusCode, message);
00047
00048
00049
00058
              public void If(bool condition, HttpStatusCode httpStatusCode, string message,
     HttpExceptionInfo additionalInfo)
00059
00060
                   if (condition)
00061
00062
                       throw new HttpException(httpStatusCode, message, additionalInfo);
00063
                  }
00064
              }
00065
00073
              public void IfNot (bool condition, HttpStatusCode httpStatusCode, string message = null)
00074
00075
                   if (!condition)
00076
00077
                       throw string.IsNullOrEmpty(message) ? new HttpException(httpStatusCode) : new
     HttpException(httpStatusCode, message);
00078
                  }
00079
00080
              public void IfNot(bool condition, HttpStatusCode httpStatusCode, string message,
     HttpExceptionInfo additionalInfo)
00090
              {
00091
                   if (!condition)
00092
                  {
00093
                       throw new HttpException(httpStatusCode, message, additionalInfo);
00094
00095
00096
          }
00097 }
00099 #pragma warning restore CC0091 // Use static method
```

7.11 ExceptionHandlers/IndexOutOfRangeExceptionHandler.cs File Reference

Classes

class PommaLabs.Thrower.ExceptionHandlers.IndexOutOfRangeExceptionHandler
 Handler for System.IndexOutOfRangeException

Namespaces

namespace PommaLabs.Thrower.ExceptionHandlers

7.12 IndexOutOfRangeExceptionHandler.cs

```
00001 // File name: IndexOutOfRangeExceptionHandler.cs
00002 //
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00004 //
00005 // The MIT License (MIT)
00006 //
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00008 //
00009 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and 00010 // associated documentation files (the "Software"), to deal in the Software without restriction,
00011 // including without limitation the rights to use, copy, modify, merge, publish, distribute,
00012 // sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
00013 \/\/ furnished to do so, subject to the following conditions:
00014 //
00015 // The above copyright notice and this permission notice shall be included in all copies or
00016 // substantial portions of the Software.
00018 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT 00019 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND 00020 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, 00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00023
00024 using System;
00025
00026 #pragma warning disable CC0091 // Use static method
00027
00028 namespace PommaLabs.Thrower.ExceptionHandlers
00033
            public sealed class IndexOutOfRangeExceptionHandler
00034
00035
                 #region Less - Without message
00036
                 public void IfIsLess<TArg>(TArg argument1, TArg argument2)
00045
                      where TArg : IComparable<TArg>
00046
00047
                      if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) < 0)</pre>
00048
00049
                           throw new IndexOutOfRangeException();
00050
                      }
                 }
00052
00059
                 public void IfIsLess(IComparable argument1, IComparable argument2)
00060
                      if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) < 0)</pre>
00061
00062
                      {
00063
                           throw new IndexOutOfRangeException();
00064
                      }
00065
00066
00067
                 #endregion Less - Without message
00068
00069
                 #region Less - With message
00070
                 public void IfIsLess<TArg>(TArg argument1, TArg argument2, string message)
00079
08000
                      where TArg : IComparable<TArg>
00081
00082
                      if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) < 0)
00083
                      {
00084
                           throw new IndexOutOfRangeException(message);
```

```
00085
                  }
00086
00087
00095
              public void IfIsLess(IComparable argument1, IComparable argument2, string message)
00096
00097
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) < 0)
00098
                  {
00099
                       throw new IndexOutOfRangeException(message);
00100
00101
00102
00103
              #endregion Less - With message
00104
00105
              #region LessEqual - Without message
00106
00114
              public void IfIsLessOrEqual<TArg>(TArg argument1, TArg argument2)
00115
                  where TArg : IComparable<TArg>
00116
00117
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) <= 0)</pre>
00118
                  {
00119
                       throw new IndexOutOfRangeException();
00120
                  }
00121
              }
00122
              public void IfIsLessOrEqual(IComparable argument1, IComparable argument2)
00129
00130
00131
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) <= 0)</pre>
00132
00133
                       throw new IndexOutOfRangeException();
00134
00135
00136
00137
              #endregion LessEqual - Without message
00138
00139
              #region LessEqual - With message
00140
00149
              public void IfIsLessOrEqual<TArg>(TArg argument1, TArg argument2, string message)
00150
                  where TArg : IComparable<TArg>
00151
              {
00152
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) <= 0)</pre>
00153
00154
                       throw new IndexOutOfRangeException (message);
00155
00156
              }
00165
              public void IfIsLessOrEqual(IComparable argument1, IComparable argument2, string
00166
00167
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) <= 0)</pre>
00168
                  {
00169
                       throw new IndexOutOfRangeException(message);
00170
00171
              }
00172
00173
              #endregion LessEqual - With message
00174
00175
              #region Greater - Without message
00176
00184
              public void IfIsGreater<TArg>(TArg argument1, TArg argument2)
00185
                  where TArg : IComparable<TArg>
00186
00187
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) > 0)
00188
00189
                       throw new IndexOutOfRangeException();
00190
                   }
00191
              }
00192
              public void IfIsGreater (IComparable argument), IComparable argument2)
00199
00200
00201
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) > 0)
00202
00203
                       throw new IndexOutOfRangeException();
00204
                   }
00205
              }
00206
00207
              #endregion Greater - Without message
00208
00209
              #region Greater - With message
00210
00219
              public void IfIsGreater<TArg>(TArg argument1, TArg argument2, string message)
00220
                  where TArg : IComparable<TArg>
00221
00222
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) > 0)
00223
00224
                       throw new IndexOutOfRangeException(message);
00225
                   }
00226
              }
```

```
00227
              public void IfIsGreater (IComparable argument1, IComparable argument2, string message)
00235
00236
00237
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) > 0)
00238
                  {
00239
                      throw new IndexOutOfRangeException(message);
00240
00241
00242
00243
              #endregion Greater - With message
00244
00245
              #region GreaterEqual - Without message
00246
00254
              public void IfIsGreaterOrEqual<TArg>(TArg argument1, TArg argument2)
00255
                  where TArg : IComparable<TArg>
00256
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) >= 0)
00257
00258
                  {
00259
                      throw new IndexOutOfRangeException();
00260
                  }
00261
              }
00262
00269
              public void IfIsGreaterOrEqual (IComparable argument1, IComparable argument2)
00270
00271
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) >= 0)
00272
                  {
00273
                      throw new IndexOutOfRangeException();
00274
                  }
00275
              }
00276
00277
              #endregion GreaterEqual - Without message
00278
00279
              #region GreaterEqual - With message
00280
00289
              public void IfIsGreaterOrEqual<TArg>(TArg argument1, TArg argument2, string message)
00290
                  where TArg : IComparable<TArg>
00291
00292
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) >= 0)
00293
                  {
00294
                      throw new IndexOutOfRangeException(message);
00295
                  }
00296
              }
00297
00305
              public void IfIsGreaterOrEqual(IComparable argument1, IComparable argument2,
     string message)
00306
              {
00307
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) >= 0)
00308
                  {
00309
                      throw new IndexOutOfRangeException(message);
00310
                  }
00311
              }
00312
00313
              #endregion GreaterEqual - With message
00314
              #region Equal - Without message
00315
00316
              public void IfIsEqual<TArg>(TArg argument1, TArg argument2)
00325
                  where TArg : IComparable<TArg>
00326
00327
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) == 0)
00328
                  {
00329
                      throw new IndexOutOfRangeException();
00330
                  }
00331
00332
00339
              public void IfIsEqual(IComparable argument1, IComparable argument2)
00340
00341
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) == 0)
00342
                  {
00343
                      throw new IndexOutOfRangeException();
00344
00345
00346
00347
              #endregion Equal - Without message
00348
00349
              #region Equal - With message
00350
00359
              public void IfIsEqual<TArg>(TArg argument1, TArg argument2, string message)
00360
                  where TArg : IComparable<TArg>
00361
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) == 0)
00362
00363
                  {
00364
                      throw new IndexOutOfRangeException(message);
00365
                  }
00366
              }
00367
              public void IfIsEqual (IComparable argument), IComparable argument2, string message)
00375
```

```
00376
              {
00377
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) == 0)
00378
00379
                      throw new IndexOutOfRangeException(message);
00380
00381
              }
00382
00383
              #endregion Equal - With message
00384
00385
              #region NotEqual - Without message
00386
00394
              public void IfIsNotEqual<TArg>(TArg argument1, TArg argument2)
00395
                  where TArg : IComparable<TArg>
00396
00397
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) != 0)
00398
                      throw new IndexOutOfRangeException();
00399
00400
                  }
00401
              }
00402
00409
              public void IfIsNotEqual(IComparable argument1, IComparable argument2)
00410
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) != 0)
00411
00412
00413
                      throw new IndexOutOfRangeException();
00414
00415
00416
              #endregion NotEqual - Without message
00417
00418
00419
              #region NotEqual - With message
00420
00429
              public void IfIsNotEqual<TArg>(TArg argument1, TArg argument2, string message)
00430
                  where TArg : IComparable<TArg>
00431
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) != 0)
00432
00433
00434
                      throw new IndexOutOfRangeException(message);
00435
                  }
00436
              }
00437
              public void IfIsNotEqual(IComparable argument1, IComparable argument2, string message)
00445
00446
00447
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) != 0)
00448
                  {
00449
                      throw new IndexOutOfRangeException(message);
00450
00451
00452
00453
              #endregion NotEqual - With message
00454
          }
00455 }
00456
00457 #pragma warning restore CC0091 // Use static method
```

7.13 ExceptionHandlers/InvalidOperationExceptionHandler.cs File Reference

Classes

class PommaLabs.Thrower.ExceptionHandlers.InvalidOperationExceptionHandler
 Handler for InvalidOperationException.

Namespaces

• namespace PommaLabs.Thrower.ExceptionHandlers

7.14 InvalidOperationExceptionHandler.cs

```
00001 // File name: InvalidOperationException.cs
00002 //
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00004 //
00005 // The MIT License (MIT)
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00008 //
00009 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and 00010 // associated documentation files (the "Software"), to deal in the Software without restriction,
00011 // including without limitation the rights to use, copy, modify, merge, publish, distribute,
00012 // sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
00013 // furnished to do so, subject to the following conditions:
00014 //
00015 // The above copyright notice and this permission notice shall be included in all copies or
00016 // substantial portions of the Software.
00017 //
00018 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT
00019 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
00020 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00023
00024 using System;
00026 #pragma warning disable CC0091 // Use static method
00027
00028 namespace PommaLabs.Thrower.ExceptionHandlers
00029 {
          public sealed class InvalidOperationExceptionHandler :
00033
     GenericExceptionHandler<InvalidOperationException>
00034
00040
               protected override InvalidOperationException NewWithMessage(string message) => new
     InvalidOperationException(message);
00041
00042 }
00044 #pragma warning restore CC0091 // Use static method
```

7.15 ExceptionHandlers/NotSupportedExceptionHandler.cs File Reference

Classes

class PommaLabs.Thrower.ExceptionHandlers.NotSupportedExceptionHandler
 Handler for NotSupportedException.

Namespaces

namespace PommaLabs.Thrower.ExceptionHandlers

7.16 NotSupportedExceptionHandler.cs

```
00001 // File name: NotSupportedExceptionHandler.cs
00002 //
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00004 //
00005 // The MIT License (MIT)
00006 //
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00008 //
00009 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and
0010 // associated documentation files (the "Software"), to deal in the Software without restriction,
00011 // including without limitation the rights to use, copy, modify, merge, publish, distribute,
00012 // sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
00013 // furnished to do so, subject to the following conditions:
00014 //
```

```
00015 // The above copyright notice and this permission notice shall be included in all copies or
00016 // substantial portions of the Software.
00017 //
00018 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT 00019 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
00020 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00023
00024 using System;
00025
00026 #pragma warning disable CC0091 // Use static method
00027
00028 namespace PommaLabs. Thrower. Exception Handlers
00029 {
           public sealed class NotSupportedExceptionHandler :
     GenericExceptionHandler<NotSupportedException>
00034
        {
00040
               protected override NotSupportedException NewWithMessage(string message) => new
     NotSupportedException(message);
00041
00042 }
00043
00044 #pragma warning restore CC0091 // Use static method
```

7.17 ExceptionHandlers/ObjectDisposedExceptionHandler.cs File Reference

Classes

class PommaLabs.Thrower.ExceptionHandlers.ObjectDisposedExceptionHandler
 Handler for ObjectDisposedException.

Namespaces

· namespace PommaLabs.Thrower.ExceptionHandlers

7.18 ObjectDisposedExceptionHandler.cs

```
00001 // File name: ObjectDisposedExceptionHandler.cs
00002 //
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00004 //
00005 // The MIT License (MIT)
00006 //
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00008 //
00009 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and 00010 // associated documentation files (the "Software"), to deal in the Software without restriction,
00011 // including without limitation the rights to use, copy, modify, merge, publish, distribute,
00012 // sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
00013 // furnished to do so, subject to the following conditions:
00014 //
00015 // The above copyright notice and this permission notice shall be included in all copies or
00016 // substantial portions of the Software.
00017 //
00018 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT 00019 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
00020 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00023
00024 using System;
00025
00026 #pragma warning disable CC0091 // Use static method
00027
00028 namespace PommaLabs.Thrower.ExceptionHandlers
00029 {
           public sealed class ObjectDisposedExceptionHandler
00033
00034
                public void If(bool disposed, string objectName, string message = null)
```

7.19 HttpException.cs File Reference

Classes

- struct PommaLabs.Thrower.HttpExceptionInfo
 - Additional info which will be included into HttpException.
- class PommaLabs.Thrower.HttpException

Represents an exception which contains an error message that should be delivered through the HTTP response, using given status code.

Namespaces

namespace PommaLabs.Thrower

7.20 HttpException.cs

```
00001 // File name: HttpException.cs
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00004 //
00005 // The MIT License (MIT)
00006 //
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00008 //
00009 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and
00010 // associated documentation files (the "Software"), to deal in the Software without restriction,
00011 // including without limitation the rights to use, copy, modify, merge, publish, distribute,
00012 // sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
00013 // furnished to do so, subject to the following conditions:
00015 // The above copyright notice and this permission notice shall be included in all copies or
00016 // substantial portions of the Software.
00017 //
00018 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT 00019 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND 00020 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00023
00024 using PommaLabs. Thrower. Validation;
00025 using System;
00026 using System.Collections;
00027 using System.Collections.Generic;
00028 using System.Diagnostics.CodeAnalysis;
00029 using System.Net;
00030 using System.Runtime.Serialization;
00031
00032 namespace PommaLabs. Thrower
00033 {
00037
           [Serializable]
           public struct HttpExceptionInfo
00038
00039
                public HttpExceptionInfo(object errorCode = null, string userMessage = null)
00045
00046
00047
                    ErrorCode = errorCode ?? HttpException.DefaultErrorCode;
00048
                    UserMessage = userMessage ?? HttpException.
```

```
DefaultUserMessage;
00049
00050
00054
              [Validate (Required = false)]
              public object ErrorCode { get; set; }
00056
00060
              [Validate(Required = false)]
00061
             public string UserMessage { get; set; }
00062
         }
00063
00068
          [Serializable]
          [SuppressMessage("Microsoft.Design", "CA1032:ImplementStandardExceptionConstructors")]
00069
00070
          public sealed class HttpException : Exception
00071
00076
              public HttpException(HttpStatusCode httpStatusCode)
00077
                 : this(httpStatusCode, new HttpExceptionInfo())
00078
00079
00080
00086
              public HttpException(HttpStatusCode httpStatusCode,
      HttpExceptionInfo additionalInfo)
00087
00088
                  HttpStatusCode = httpStatusCode;
00089
                  ErrorCode = additionalInfo.ErrorCode ?? DefaultErrorCode;
00090
                  UserMessage = additionalInfo.UserMessage ?? DefaultUserMessage;
00091
00092
                  CustomizeException();
00093
              }
00094
00100
              public HttpException(HttpStatusCode httpStatusCode, string message)
00101
                  : this(httpStatusCode, message, new HttpExceptionInfo())
00102
00103
00104
00111
              public HttpException(HttpStatusCode httpStatusCode, string message,
     HttpExceptionInfo additionalInfo)
00112
                  : base (message)
00113
              {
00114
                  HttpStatusCode = httpStatusCode;
00115
                  ErrorCode = additionalInfo.ErrorCode ?? DefaultErrorCode;
00116
                  UserMessage = additionalInfo.UserMessage ?? DefaultUserMessage;
00117
00118
                  CustomizeException():
00119
             }
00120
00127
              public HttpException(HttpStatusCode httpStatusCode, string message, Exception
     innerException)
00128
                  : this(httpStatusCode, message, innerException, new
      HttpExceptionInfo())
00129
00130
00131
00139
              public HttpException(HttpStatusCode httpStatusCode, string message, Exception
     innerException, HttpExceptionInfo additionalInfo)
00140
                  : base(message, innerException)
00141
00142
                  HttpStatusCode = httpStatusCode;
00143
                  ErrorCode = additionalInfo.ErrorCode ?? DefaultErrorCode;
00144
                  UserMessage = additionalInfo.UserMessage ?? DefaultUserMessage;
00145
00146
                  CustomizeException():
00147
              }
00148
00152
              public HttpStatusCode HttpStatusCode { get; }
00153
00157
              public object ErrorCode { get; }
00158
              public static object DefaultErrorCode { get; set; } = "unspecified";
00162
00163
              public string UserMessage { get; }
00168
00172
              public static string DefaultUserMessage { get; set; } = "unspecified";
00173
00174
              private void CustomizeException()
00175
00176
                  HResult = (int) HttpStatusCode;
00177
00178
                  Data.Add(nameof(HttpStatusCode), HttpStatusCode.ToString());
00179
                  Data.Add(nameof(ErrorCode), ErrorCode?.ToString());
                  Data.Add(nameof(UserMessage), UserMessage);
00180
00181
00182
          }
00183 }
```

7.21 Obsolete/Raise.cs File Reference

Classes

class PommaLabs.Thrower.Raise< TEx >

New exception handling mechanism, which is more fluent than the old ones.

Namespaces

namespace PommaLabs.Thrower

```
00001 // File name: Raise.cs
00002 //
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00004 //
00005 // The MIT License (MIT)
00006 //
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00008 //
00009 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and 00010 // associated documentation files (the "Software"), to deal in the Software without restriction,
00011 // including without limitation the rights to use, copy, modify, merge, publish, distribute,
00012 // sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
00013 // furnished to do so, subject to the following conditions:
00014 //
00015 // The above copyright notice and this permission notice shall be included in all copies or
00016 // substantial portions of the Software.
00017 //
00018 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT 00019 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND 00020 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, 00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00023
00024 using PommaLabs.Thrower.Reflection;
00025 using System;
00026 using System.Diagnostics.CodeAnalysis;
00027 using System.Ling;
00028
00029 namespace PommaLabs. Thrower
00030
00031 #pragma warning disable RECS0096 // Type parameter is never used
00032
00033
                       public partial class Raise<TEx>
00034 #pragma warning restore RECS0096 // Type parameter is never used
00035
00051 #if (NET45 || NET46 || PORTABLE)
00052
00053
                                [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
             MethodImplOptions.AggressiveInlining)]
00054 #endif
00055
                                [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")] public static void IfAreEqual<TArg1, TArg2>(TArg1 arg1, TArg2 arg2)
00056
00057
00058
00059
                                          if (Equals(arg1, arg2))
00060
                                         {
00061
                                                  DoThrow();
00062
                                         }
00063
                                }
00064
00087 #if (NET45 || NET46 || PORTABLE)
00088
00089
                                [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
             MethodImplOptions.AggressiveInlining)]
00090 #endif
00091
                                [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")] public static void IfAreEqual<TArg1, TArg2>(TArg1 arg1, TArg2 arg2, string message)
00092
00093
00094
00095
                                          if (Equals(arg1, arg2))
```

```
{
00097
                                                                                               DoThrow (message);
00098
                                                                              }
00099
00100
00116 #if (NET45 || NET46 || PORTABLE)
                                                             [System. Runtime. Compiler Services. Method Impl (System. Runtime. Runtime. Method Impl (System. Runtime. Runtime. Method Impl (System. Runtime. Runtim
00118
                         MethodImplOptions.AggressiveInlining)]
00119 #endif
00120
                                                            [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
00121
                                                            public static void IfAreNotEqual<TArg1, TArg2>(TArg1 arg1, TArg2 arg2)
00123
00124
                                                                               if (!Equals(arg1, arg2))
00125
00126
                                                                                               DoThrow():
00127
                                                                              }
00128
00129
00152 #if (NET45 || NET46 || PORTABLE)
00153
                                                            [System. Runtime. Compiler Services. Method Impl (System. Runtime. Runtime. Method Impl (System. Runtime. 
00154
                       MethodImplOptions.AggressiveInlining)]
00155 #endif
00156
00157
                                                             [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
00158
                                                            public static void IfAreNotEqual<TArg1, TArg2>(TArg1 arg1, TArg2 arg2, string message)
00159
00160
                                                                              if (!Equals(arg1, arg2))
00161
                                                                              {
00162
                                                                                               DoThrow (message);
00163
00164
00165
00181 #if (NET45 || NET46 || PORTABLE)
00182
00183
                                                            [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
                         MethodImplOptions.AggressiveInlining)]
00184 #endif
00185
                                                            [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")] public static void IfAreSame<TArg1, TArg2>(TArg1 arg1, TArg2 arg2)
00186
00187
00188
00189
                                                                               if (ReferenceEquals(arg1, arg2))
00190
00191
                                                                                               DoThrow();
00192
                                                                              }
00193
00194
00217 #if (NET45 || NET46 || PORTABLE)
00218
00219
                                                            [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
                         MethodImplOptions.AggressiveInlining)]
00220 #endif
00221
                                                            [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")] \\
00222
00223
                                                            public static void IfAreSame<TArg1, TArg2>(TArg1 arg1, TArg2 arg2, string message)
00224
00225
                                                                              if (ReferenceEquals(arg1, arg2))
00226
                                                                              {
00227
                                                                                               DoThrow (message);
00228
                                                                              }
00229
00230
00246 #if (NET45 || NET46 || PORTABLE)
00247
                                                            [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00248
                       MethodImplOptions.AggressiveInlining)]
00249 #endif
00250
                                                            [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
00251
00252
                                                             public static void IfAreNotSame<TArg1, TArg2>(TArg1 arg1, TArg2 arg2)
00253
00254
                                                                               if (!ReferenceEquals(arg1, arg2))
00255
00256
                                                                                               DoThrow();
00257
00258
00259
00282 #if (NET45 || NET46 || PORTABLE)
00283
                                                             [System. Runtime. Compiler Services. Method Impl (System. Runtime. Runtime. Method Impl (System. Runtime. Runtime. Runtime. Method Impl (System. Runtime. 
                        MethodImplOptions.AggressiveInlining)]
00285 #endif
00286
00287
                                                             [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
```

```
public static void IfAreNotSame<TArg1, TArg2>(TArg1 arg1, TArg2 arg2, string message)
00289
00290
                    if (!ReferenceEquals(arg1, arg2))
00291
                    {
00292
                        DoThrow (message):
00293
00294
00295
00311 #if (NET45 || NET46 || PORTABLE)
00312
               [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00313
     MethodImplOptions.AggressiveInlining)]
00314 #endif
00315
00316
                [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")] \\
00317
               public static void IfIsAssignableFrom(object instance, Type type)
00318
00319
                    if (PortableTypeInfo.IsAssignableFrom(instance, type))
00320
00321
                         DoThrow();
00322
00323
               }
00324
00349 #if (NET45 || NET46 || PORTABLE)
00350
               [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
      MethodImplOptions.AggressiveInlining)]
00352 #endif
00353
               [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
00354
00355
               public static void IfIsAssignableFrom(object instance, Type type, string message)
00356
               {
                    if (ReferenceEquals(instance, null) || PortableTypeInfo.
00357
      IsAssignableFrom(instance, type))
00358
                    {
00359
                        DoThrow (message):
00360
                    }
00361
00362
00378 #if (NET45 || NET46 || PORTABLE)
00379
               [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00380
      MethodImplOptions.AggressiveInlining)]
00381 #endif
00382
               [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
[SuppressMessage("Microsoft.Design", "CA1004:GenericMethodsShouldProvideTypeParameter")]
00383
00384
00385
               public static void IfIsAssignableFrom<TType>(object instance)
00386
                {
00387
                    if (ReferenceEquals(instance, null) || PortableTypeInfo.
      IsAssignableFrom(instance, typeof(TType)))
00388
                   {
00389
                        DoThrow();
00390
00391
00392
00417 #if (NET45 || NET46 || PORTABLE)
00418
               [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
00419
     MethodImplOptions.AggressiveInlining)]
00420 #endif
00421
               [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
[SuppressMessage("Microsoft.Design", "CA1004:GenericMethodsShouldProvideTypeParameter")]
00422
00423
00424
               public static void IfIsAssignableFrom<TType>(object instance, string message)
00425
               {
00426
                    if (ReferenceEquals(instance, null) || PortableTypeInfo.
      IsAssignableFrom(instance, typeof(TType)))
                   {
00428
                        DoThrow (message);
00429
00430
                }
00431
00447 #if (NET45 || NET46 || PORTABLE)
00448
               [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
      MethodImplOptions.AggressiveInlining)]
00450 #endif
00451
               [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")] public static void IfIsNotAssignableFrom(object instance, Type type)
00452
00453
00454
                    if (ReferenceEquals(instance, null) || !PortableTypeInfo.
      IsAssignableFrom(instance, type))
00456
                   {
00457
                        DoThrow();
00458
                    }
```

```
00459
                                               }
00460
00485 #if (NET45 || NET46 || PORTABLE)
00486
                                               [System. Runtime. Compiler Services. Method Impl (System. Runtime. Runtime. Method Impl (System. Runtime. 
00487
                   MethodImplOptions.AggressiveInlining)]
00488 #endif
00489
00490
                                               [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
00491
                                               public static void IfIsNotAssignableFrom(object instance, Type type, string
                  message)
00492
                                              {
00493
                                                             if (ReferenceEquals(instance, null) || !PortableTypeInfo.
                   IsAssignableFrom(instance, type))
00494
                                                           {
00495
                                                                          DoThrow (message);
00496
                                                             }
                                               }
00497
00498
00516 #if (NET45 || NET46 || PORTABLE)
00517
00518
                                               [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
                  MethodImplOptions.AggressiveInlining)]
00519 #endif
00520
                                               [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
[SuppressMessage("Microsoft.Design", "CA1004:GenericMethodsShouldProvideTypeParameter")]
00521
00522
00523
                                               public static void IfIsNotAssignableFrom<TType>(object instance)
00524
00525
                                                             if (!PortableTypeInfo.IsAssignableFrom(instance, typeof(TType))
00526
                                                             {
00527
                                                                           DoThrow();
00528
                                                             }
00529
00530
00557 #if (NET45 || NET46 || PORTABLE)
00559
                                               [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
                   MethodImplOptions.AggressiveInlining)]
00560 #endif
00561
                                               [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
[SuppressMessage("Microsoft.Design", "CA1004:GenericMethodsShouldProvideTypeParameter")]
00562
00563
                                               public static void IfIsNotAssignableFrom<TType>(object instance, string message)
00564
00565
                                               {
00566
                                                             if (ReferenceEquals(instance, null) || !PortableTypeInfo.
                  IsAssignableFrom(instance, typeof(TType)))
00567
                                                          {
00568
                                                                          DoThrow (message):
00569
                                                             }
00570
00571
00587 #if (NET45 || NET46 || PORTABLE)
00588
00589
                                               [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
                   MethodImplOptions.AggressiveInlining)]
00590 #endif
00591
                                               [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")] \\
00592
00593
                                               public static void IfIsContainedIn(object argument,
                   System.Collections.IList collection)
00594
                                              {
00595
                                                              if (ReferenceEquals(collection, null) || collection.Contains(argument))
00596
00597
                                                                          DoThrow();
00598
00599
                                               }
00600
00623 #if (NET45 || NET46 || PORTABLE)
00624
00625
                                               [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
                  MethodImplOptions.AggressiveInlining)]
00626 #endif
00627
00628
                                               [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
                                               public static void IfIsContainedIn(object argument,
00629
                  System.Collections.IList collection, string message)
00630
                                               {
00631
                                                             if (ReferenceEquals(collection, null) || collection.Contains(argument))
00632
                                                             {
00633
                                                                          DoThrow (message);
00634
00635
                                               }
00636
00652 #if (NET45 || NET46 || PORTABLE)
00653
```

```
[System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
          MethodImplOptions.AggressiveInlining)]
00655 #endif
00656
                       [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
00657
                       public static void IfIsNotContainedIn(object argument,
00658
          System.Collections.IList collection)
00659
                       {
00660
                              if (ReferenceEquals(collection, null) || !collection.Contains(argument))
00661
                              {
                                     DoThrow();
00662
00663
00664
                       }
00665
00688 #if (NET45 || NET46 || PORTABLE)
00689
                       [System. Runtime. Compiler Services. Method Impl (System. Runtime. Runtime. Method Impl (System. Runtime. Runtime. Runtime. Method Impl (System. Runtime. 
00690
         MethodImplOptions.AggressiveInlining)]
00691 #endif
00692
00693
                       [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")] \\
00694
                       public static void IfIsNotContainedIn(object argument,
         System.Collections.IList collection, string message)
00695
                       {
00696
                              if (ReferenceEquals(collection, null) || !collection.Contains(argument))
00697
                              {
00698
                                     DoThrow (message);
00699
00700
                       }
00701
00717 #if (NET45 || NET46 || PORTABLE)
                       [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00719
        MethodImplOptions.AggressiveInlining)]
00720 #endif
00721
00722
                       [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
                       public static void IfIsContainedIntTarg>(Targ arg, System Collections Generic IEnumerable<
         TArg> collection)
00724
                      {
00725
                              if (ReferenceEquals(collection, null) || collection.Contains(arg))
00726
                              {
00727
                                     DoThrow():
00728
                              }
00729
00730
00753 #if (NET45 || NET46 || PORTABLE)
00754
00755
                       [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
         MethodImplOptions.AggressiveInlining)]
00756 #endif
00757
00758
                       [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
00759
                       public static void IfIsContainedIn<TArg>(TArg arg, System.Collections.Generic.IEnumerable
         TArg> collection, string message)
00760
                       {
00761
                               if (ReferenceEquals(collection, null) || collection.Contains(arg))
00762
                              {
00763
                                     DoThrow (message);
00764
00765
                       }
00766
00782 #if (NET45 || NET46 || PORTABLE)
00783
00784
                       [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
         MethodImplOptions.AggressiveInlining)]
00785 #endif
00786
00787
                       [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
                       public static void IfIsNotContainedIn<TArg>(TArg arg, System.Collections.Generic.TEnumerable<
00788
         TArg> collection)
00789
                       {
00790
                              if (ReferenceEquals(collection, null) || !collection.Contains(arg))
00791
                              {
00792
                                     DoThrow();
00793
00794
                       }
00795
00818 #if (NET45 || NET46 || PORTABLE)
00819
                       [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00820
          MethodImplOptions.AggressiveInlining)]
00821 #endif
00822
                       [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")] \\
00823
00824
                       public static void IfIsNotContainedIn<TArg>(TArg arg, System.Collections.Generic.IEnumerable<
          TArg> collection, string message)
```

```
{
                                                          if (ReferenceEquals(collection, null) || !collection.Contains(arg))
00826
00827
00828
                                                                      DoThrow (message);
00829
00830
                                            }
00831
00847 #if (NET45 || NET46 || PORTABLE)
00848
00849
                                            [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
                 MethodImplOptions.AggressiveInlining)]
00850 #endif
00851
00852
                                            [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
00853
                                            public static void IfIsContainedIn<TArg>(TArg arg, System.Collections.IDictionary dictionary)
00854
00855
                                                          if (ReferenceEquals(dictionary, null) || dictionary.Contains(arg))
00856
                                                         {
00857
                                                                      DoThrow();
00858
                                                          }
00859
00860
00884 #if (NET45 || NET46 || PORTABLE)
00885
00886
                                            [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
                  MethodImplOptions.AggressiveInlining)]
00887 #endif
00888
                                            [Suppress \texttt{Message("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]} \\
00889
                                            public static void IfIsContainedIn<TArg>(TArg arg, System.Collections.IDictionary dictionary,
00890
                      string message)
00891
                                            {
00892
                                                          if (ReferenceEquals(dictionary, null) || dictionary.Contains(arg))
00893
                                                         {
00894
                                                                      DoThrow (message);
00895
00896
                                            }
00913 #if (NET45 || NET46 || PORTABLE)
00914
00915
                                            [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
                 MethodImplOptions.AggressiveInlining)]
00916 #endif
00917
                                            [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
00918
00919
                                            public static void IfIsNotContainedIn<TArg>(TArg arg, System.Collections.IDictionary
                 dictionary)
00920
                                           {
00921
                                                          if (ReferenceEquals(dictionary, null) || !dictionary.Contains(arg))
00922
                                                         {
00923
                                                                      DoThrow();
00924
00925
                                            }
00926
00950 #if (NET45 || NET46 || PORTABLE)
00951
                                            [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
                  MethodImplOptions.AggressiveInlining)]
00953 #endif
00954
                                            [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
00955
                                            public static void IfIsNotContainedIn<TArg>(TArg arg, System.Collections.IDictionary
00956
                 dictionary, string message)
00957
                                           {
00958
                                                         if (ReferenceEquals(dictionary, null) || !dictionary.Contains(arg))
00959
                                                         {
00960
                                                                      DoThrow (message);
00961
                                                          }
00962
00963
00980 #if (NET45 || NET46 || PORTABLE)
00981
00982
                                            [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
                 MethodImplOptions.AggressiveInlining)]
00983 #endif
00984
                                            [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
00985
00986
                                            public static void IfIsContainedIn<TArg1, TArg2>(TArg1 arg1, TArg2 arg2,
                  System.Collections.Generic.IDictionary<TArg1, TArg2> dictionary)
00987
                                         {
                                                         if (ReferenceEquals(dictionary, null) || dictionary.Contains(new
00988
                  System.Collections.Generic.KeyValuePair<TArg1, TArg2>(arg1, arg2)))
00989
                                                        {
00990
                                                                      DoThrow();
00991
00992
                                            }
00993
```

```
01019 #if (NET45 || NET46 || PORTABLE)
01020
01021
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
     MethodImplOptions.AggressiveInlining)]
01022 #endif
01023
              [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
01024
              public static void IfIsContainedIn<TArg1, TArg2>(TArg1 arg1, TArg2 arg2,
01025
     System.Collections.Generic.IDictionary<TArg1, TArg2> dictionary,
01026
                  string message)
01027
              {
                  if (ReferenceEquals(dictionary, null) || dictionary.Contains(new
01028
     System.Collections.Generic.KeyValuePair<TArg1, TArg2>(arg1, arg2)))
01029
01030
                       DoThrow (message);
01031
01032
              1
01033
01050 #if (NET45 || NET46 || PORTABLE)
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
     MethodImplOptions.AggressiveInlining)]
01053 #endif
01054
01055
              [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
     public static void IfIsNotContainedIn<TArg1, TArg2>(TArg1 arg1, TArg2 arg2, System.Collections.Generic.IDictionary<TArg1, TArg2> dictionary)
01056
01057
          {
01058
                  if (ReferenceEquals(dictionary, null) || !dictionary.Contains(new
     System.Collections.Generic.KeyValuePair<TArg1, TArg2>(arg1, arg2)))
01059
                  {
01060
                       DoThrow();
01061
01062
              }
01063
01089 #if (NET45 || NET46 || PORTABLE)
01090
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
     MethodImplOptions.AggressiveInlining)]
01092 #endif
01093
              [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
01094
     public static void IffsNotContainedIn<TArg1, TArg2>(TArg1 arg1, TArg2 arg2, System.Collections.Generic.IDictionary<TArg1, TArg2> dictionary,
01095
01096
                 string message)
01097
              {
01098
                  if (ReferenceEquals(dictionary, null) || !dictionary.Contains(new
     System.Collections.Generic.KeyValuePair<TArg1, TArg2>(arg1, arg2)))
01099
                  {
01100
                       DoThrow (message) ;
01101
                   }
01102
01103
01118 #if (NET45 || NET46 || PORTABLE)
01119
01120
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
     MethodImplOptions.AggressiveInlining)]
01121 #endif
01122
              [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
01123
01124
              public static void IfIsEmpty(string valueToCheck)
01125
              {
01126
                   if (IsNullOrWhiteSpace(valueToCheck))
01127
                   {
01128
                       DoThrow();
01129
                   }
01130
              }
01131
01154 #if (NET45 || NET46 || PORTABLE)
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
01156
     MethodImplOptions.AggressiveInlining)]
01157 #endif
01158
              [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
01159
              public static void IfIsEmpty(string valueToCheck, string message)
01161
01162
                   if (IsNullOrWhiteSpace(valueToCheck))
01163
                       DoThrow (message):
01164
01165
01166
              }
01167
01182 #if (NET45 || NET46 || PORTABLE)
01183
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
01184
      MethodImplOptions.AggressiveInlining) |
```

```
01185 #endif
01186
                                   [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
01187
01188
                                   public static void IfIsNotEmpty(string valueToCheck)
01189
01190
                                               if (!IsNullOrWhiteSpace(valueToCheck))
01191
                                              {
01192
                                                        DoThrow();
01193
01194
01195
01218 #if (NET45 || NET46 || PORTABLE)
01219
                                    [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
              MethodImplOptions.AggressiveInlining)]
01221 #endif
01222
                                   [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
01223
01224
                                   public static void IfIsNotEmpty(string valueToCheck, string message)
01225
01226
                                              if (!IsNullOrWhiteSpace(valueToCheck))
01227
01228
                                                        DoThrow (message);
01229
01230
                                   }
01231
01246 #if (NET45 || NET46 || PORTABLE)
01247
01248
                                   [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
              MethodImplOptions.AggressiveInlining)]
01249 #endif
01250
01251
                                   [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
01252
                                   public static void IfIsEmpty(System.Collections.ICollection collection)
01253
01254
                                              if (ReferenceEquals(collection, null) || collection.Count == 0)
01255
                                              {
01256
                                                        DoThrow();
01257
                                              }
01258
                                   }
01259
01281 #if (NET45 || NET46 || PORTABLE)
01282
                                   [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
01283
              MethodImplOptions.AggressiveInlining)]
01284 #endif
01285
                                   [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")] \\
01286
                                   public static void IfIsEmpty(System.Collections.ICollection collection, string
01287
              message)
01288
                                   {
01289
                                              if (ReferenceEquals(collection, null) || collection.Count == 0)
01290
01291
                                                        DoThrow (message);
01292
                                              }
01293
                                   }
01294
01309 #if (NET45 || NET46 || PORTABLE)
01310
01311
                                   [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
              MethodImplOptions.AggressiveInlining)]
01312 #endif
01313
                                   [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
01314
01315
                                   public static void IfIsNotEmpty (System.Collections.ICollection collection)
01316
01317
                                              if (ReferenceEquals(collection, null) || collection.Count > 0)
01318
                                              {
01319
                                                        DoThrow();
01320
                                              }
01321
                                   }
01322
01344 #if (NET45 || NET46 || PORTABLE)
01345
                                   [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
01346
              MethodImplOptions.AggressiveInlining)]
01347 #endif
01348
                                   [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
01349
                                   public static void IfIsNotEmpty(System.Collections.ICollection collection, string
01350
                 message)
01351
                                              if (ReferenceEquals(collection, null) || collection.Count > 0)
01352
01353
01354
                                                        DoThrow (message);
01355
                                              }
01356
                                   }
```

```
01372 #if (NET45 || NET46 || PORTABLE)
01373
01374
                                  [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
             MethodImplOptions.AggressiveInlining)]
01375 #endif
01376
01377
                                  [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
01378
                                  public static void IfIsEmpty<TArg>(System.Collections.Generic.IEnumerable<TArg> collection)
01379
01380
                                            if (ReferenceEquals(collection, null) || !collection.Any())
01381
                                            {
01382
                                                     DoThrow();
01383
01384
                                  }
01385
01407 #if (NET45 || NET46 || PORTABLE)
01408
01409
                                  [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
              MethodImplOptions.AggressiveInlining)]
01410 #endif
01411
                                 [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
01412
                                  public static void IfIsEmpty<TArg>(System.Collections.Generic.IEnumerable<TArg> collection,
01413
             string message)
01414
                                {
01415
                                            if (ReferenceEquals(collection, null) || !collection.Any())
01416
01417
                                                     DoThrow (message);
01418
                                            }
01419
01420
01435 #if (NET45 || NET46 || PORTABLE)
01436
01437
                                  [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
            MethodImplOptions.AggressiveInlining)]
01438 #endif
01439
                                  [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
01440
                                  public static void IfIsNotEmpty<TArg>(System.Collections.Generic.IEnumerable<TArg> collection
01441
01442
                                            if (ReferenceEquals(collection, null) || collection.Any())
01443
01444
                                           {
01445
                                                     DoThrow();
01446
01447
                                  }
01448
01470 #if (NET45 || NET46 || PORTABLE)
01471
01472
                                  [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
             MethodImplOptions.AggressiveInlining)]
01473 #endif
01474
                                  [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
01475
                                 public static void IfIsNotEmpty<TArg>(System.Collections.Generic.IEnumerable<TArg> collection
01476
             , string message)
01477
                                  {
01478
                                            if (ReferenceEquals(collection, null) || collection.Any())
01479
01480
                                                     DoThrow (message):
01481
                                            }
01482
                                  }
01483
01499 #if (NET45 || NET46 || PORTABLE)
01500
                                  [System. Runtime. Compiler Services. Method Impl (System. Runtime. Runtime. Method Impl (System. Runtime. 
01501
             MethodImplOptions.AggressiveInlining) ]
01502 #endif
01503
01504
                                  [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
01505
                                  public static void IfIsInstanceOf(object instance, Type type)
01506
                                            if (PortableTypeInfo.IsInstanceOf(instance, type))
01507
01508
                                           {
01509
01510
                                            }
01511
                                  }
01512
01535 #if (NET45 || NET46 || PORTABLE)
01536
01537
                                  [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
              MethodImplOptions.AggressiveInlining)]
01538 #endif
01539
                                  [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
01540
01541
                                  public static void IfIsInstanceOf(object instance, Type type, string message)
```

```
{
01543
                                                   if (PortableTypeInfo.IsInstanceOf(instance, type))
01544
01545
                                                              DoThrow (message);
01546
01547
                                        }
01548
01564 #if (NET45 || NET46 || PORTABLE)
01565
01566
                                       [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
               MethodImplOptions.AggressiveInlining)]
01567 #endif
01568
                                        [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
[SuppressMessage("Microsoft.Design", "CA1004:GenericMethodsShouldProvideTypeParameter")]
01569
01570
01571
                                       public static void IfIsInstanceOf<TType>(object instance)
01572
01573
                                                   if (instance is TType)
01574
01575
                                                              DoThrow();
01576
01577
01578
01601 #if (NET45 || NET46 || PORTABLE)
01602
01603
                                       [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
               MethodImplOptions.AggressiveInlining)]
01604 #endif
01605
                                       [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
[SuppressMessage("Microsoft.Design", "CA1004:GenericMethodsShouldProvideTypeParameter")]
01606
01607
01608
                                       public static void IfIsInstanceOf<TType>(object instance, string message)
01609
01610
                                                   if (instance is TType)
01611
01612
                                                              DoThrow (message);
01613
                                                   }
01614
01615
01631 #if (NET45 || NET46 || PORTABLE)
01632
01633
                                       [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
               MethodImplOptions.AggressiveInlining)]
01634 #endif
01635
01636
                                        [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
01637
                                       public static void IfIsNotInstanceOf(object instance, Type type)
01638
                                                   if (!PortableTypeInfo.IsInstanceOf(instance, type))
01639
01640
                                                   {
01641
                                                              DoThrow();
01642
01643
                                       }
01644
01667 #if (NET45 || NET46 || PORTABLE)
01668
01669
                                       [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
               MethodImplOptions.AggressiveInlining) ]
01670 #endif
01671
                                       [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
01672
01673
                                       public static void IfIsNotInstanceOf(object instance, Type type, string message)
01674
01675
                                                    if (!PortableTypeInfo.IsInstanceOf(instance, type))
01676
01677
                                                              DoThrow (message);
01678
01679
                                       }
01680
01696 #if (NET45 || NET46 || PORTABLE)
01697
01698
                                       [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
               MethodImplOptions.AggressiveInlining)]
01699 #endif
01700
                                       [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
[SuppressMessage("Microsoft.Design", "CA1004:GenericMethodsShouldProvideTypeParameter")]
01701
01702
01703
                                       public static void IfIsNotInstanceOf<TType>(object instance)
01704
01705
                                                   if (!(instance is TType))
01706
                                                   {
01707
                                                              DoThrow();
01708
01709
01710
01733 #if (NET45 || NET46 || PORTABLE)
01734
```

```
[System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
           MethodImplOptions.AggressiveInlining)]
01736 #endif
01737
                          [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
[SuppressMessage("Microsoft.Design", "CA1004:GenericMethodsShouldProvideTypeParameter")]
01738
01739
                          public static void IfIsNotInstanceOf<TType>(object instance, string message)
01740
01741
01742
                                  if (!(instance is TType))
01743
                                 {
01744
                                         DoThrow (message):
01745
01746
                          }
01747
01762 #if (NET45 || NET46 || PORTABLE)
01763
                          [System. Runtime. Compiler Services. Method Impl (System. Runtime. Runtime. Method Impl (System. Runtime. Runtime. Runtime. Method Impl (System. Runtime. 
01764
          MethodImplOptions.AggressiveInlining)]
01765 #endif
01766
01767
                          [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")] \\
                          public static void IfIsNaN(double number)
01768
01769
01770
                                  if (double.IsNaN(number))
01771
                                 {
01772
                                         DoThrow();
01773
01774
01775
01797 #if (NET45 || NET46 || PORTABLE)
01798
01799
                          [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
          MethodImplOptions.AggressiveInlining)]
01800 #endif
01801
                          [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
01802
                          public static void IfIsNaN(double number, string message)
01803
01804
01805
                                  if (double.IsNaN(number))
01806
01807
                                         DoThrow (message);
01808
                                 }
01809
                          }
01810
01825 #if (NET45 || NET46 || PORTABLE)
01826
01827
                          [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
          MethodImplOptions.AggressiveInlining)]
01828 #endif
01829
                          [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
01830
01831
                          public static void IfIsNotNaN(double number)
01832
01833
                                  if (!double.IsNaN(number))
01834
                                 {
01835
                                         DoThrow();
01836
01837
01838
01860 #if (NET45 || NET46 || PORTABLE)
01861
                          [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
01862
          MethodImplOptions.AggressiveInlining)]
01863 #endif
01864
                          [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")] \\
01865
01866
                          public static void IfIsNotNaN(double number, string message)
01867
01868
                                  if (!double.IsNaN(number))
01869
                                 {
01870
                                         DoThrow (message);
01871
                                  }
01872
01873
01888 #if (NET45 || NET46 || PORTABLE)
                          [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
01890
          MethodImplOptions.AggressiveInlining)]
01891 #endif
01892
                          [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
01893
01894
                          public static void IfIsNull<TArg>(TArg arg)
01895
01896
                                  if (!PortableTypeInfo.IsValueType(typeof(TArg)) && ReferenceEquals(
           arg, null))
01897
01898
                                         DoThrow();
```

```
01899
                                         }
01900
01901
01923 #if (NET45 || NET46 || PORTABLE)
01924
                               [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
01925
            MethodImplOptions.AggressiveInlining)]
01926 #endif
01927
                               [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
01928
                               public static void IfIsNull<TArg>(TArg arg, string message)
01929
01930
01931
                                        if (!PortableTypeInfo.IsValueType(typeof(TArg)) && ReferenceEquals(
            arg, null))
01932
                                        {
01933
                                                  DoThrow (message);
01934
                                         }
                               }
01935
01936
01951 #if (NET45 || NET46 || PORTABLE)
01952
01953
                               [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
            MethodImplOptions.AggressiveInlining) ]
01954 #endif
01955
01956
                               [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
01957
                               public static void IfIsNotNull<TArg>(TArg arg)
01958
01959
                                         if (PortableTypeInfo.IsValueType(typeof(TArg)) || !ReferenceEquals(
            arg, null))
01960
                                        {
01961
                                                 DoThrow();
01962
01963
                               }
01964
01986 #if (NET45 || NET46 || PORTABLE)
01987
01988
                               [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
            MethodImplOptions.AggressiveInlining)]
01989 #endif
01990
                               [SuppressMessage ("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")] \\
01991
                               public static void IfIsNotNull<TArg>(TArg arg, string message)
01992
01993
01994
                                         if (PortableTypeInfo.IsValueType(typeof(TArg)) || !ReferenceEquals(
            arg, null))
01995
01996
                                                  DoThrow (message);
01997
                                        }
01998
                              }
01999
02000
                               private static bool IsNullOrWhiteSpace(string value) => value == null || string.IsNullOrEmpty(value)
            .Trim());
02001
                  }
02002 }
```

7.23 Raise.cs File Reference

Classes

class PommaLabs.Thrower.Raise< TEx >

New exception handling mechanism, which is more fluent than the old ones.

Namespaces

• namespace PommaLabs.Thrower

7.24 Raise.cs

```
00001 // File name: Raise.cs
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00004 //
00005 // The MIT License (MIT)
00006 //
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00008 //
00009 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and
00010 // associated documentation files (the "Software"), to deal in the Software without restriction,
00011 // including without limitation the rights to use, copy, modify, merge, publish, distribute, 00012 // sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
00013 // furnished to do so, subject to the following conditions:
00014 //
00015 // The above copyright notice and this permission notice shall be included in all copies or
00016 // substantial portions of the Software.
00017 //
00018 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT 00019 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND 00020 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00023
00024 using PommaLabs. Thrower. Exception Handlers;
00025 using System.Diagnostics.CodeAnalysis;
00026
00027 namespace PommaLabs.Thrower
00028 {
00032
           public static class Raise
00033
00037
                public static ArgumentExceptionHandler ArgumentException { get; } = new
      ArgumentExceptionHandler();
00038
                public static ArgumentNullExceptionHandler ArgumentNullException { get;
        } = new ArgumentNullExceptionHandler();
00043
                public static ArgumentOutOfRangeExceptionHandler
00047
      ArgumentOutOfRangeException { get; } = new ArgumentOutOfRangeExceptionHandler();
00048
00052
                public static HttpExceptionHandler HttpException { get; } = new
       HttpExceptionHandler();
00053
00057
                public static IndexOutOfRangeExceptionHandler
       IndexOutOfRangeException { get; } = new IndexOutOfRangeExceptionHandler();
00058
00062
                public static InvalidOperationExceptionHandler
      InvalidOperationException { get; } = new InvalidOperationExceptionHandler();
00063
00067
                public static NotSupportedExceptionHandler NotSupportedException { get;
        } = new NotSupportedExceptionHandler();
00068
                public static ObjectDisposedExceptionHandler ObjectDisposedException
00072
       { get; } = new ObjectDisposedExceptionHandler();
00073
00074 }
```

7.25 Obsolete/RaiseArgumentException.cs File Reference

Classes

class PommaLabs.Thrower.RaiseArgumentException

Utility methods which can be used to handle bad arguments.

Namespaces

• namespace PommaLabs.Thrower

7.26 RaiseArgumentException.cs

```
00001 // File name: RaiseArgumentException.cs
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00004 //
00005 // The MIT License (MIT)
00006 //
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00008 //
00009 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and
00010 // associated documentation files (the "Software"), to deal in the Software without restriction,
00011 // including without limitation the rights to use, copy, modify, merge, publish, distribute, 00012 // sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
00013 \/\/ furnished to do so, subject to the following conditions:
00014 //
00015 // The above copyright notice and this permission notice shall be included in all copies or
00016 // substantial portions of the Software.
00017 //
00018 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT 00019 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
00020 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00023
00024 using PommaLabs. Thrower. Validation;
00025 using System;
00026 using System.Collections.Generic;
00027
00028 namespace PommaLabs.Thrower
00029 {
00036
                          [Obsolete("Please use Raise.ArgumentException.If* overloads, this class has been deprecated")]
00037
                         public sealed class RaiseArgumentException : RaiseBase
00038
00039
                                   #region If
00040
00041
                                  private const string DefaultIfMessage = "Argument is not valid";
00042
00047 #if (NET45 || NET46 || PORTABLE)
                                  [System. Runtime. Compiler Services. Method Impl (System. Runtime. Runtime. Method Impl (System. Runtime. Runtime. Method Impl (System. Runtime. Runtim
00048
              MethodImplOptions.AggressiveInlining)]
00049 #endif
00050
00051
                                   public static void If (bool condition)
00052
00053
                                             if (condition)
00054
                                             {
00055
                                                       throw new ArgumentException(DefaultIfMessage);
00056
00057
                                   }
00058
00068 #if (NET45 || NET46 || PORTABLE)
00069
                                   [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
              MethodImplOptions.AggressiveInlining)
00070 #endif
00071
00072
                                   public static void If(bool condition, string argumentName, string message = null)
00073
00074
                                             if (condition)
00075
00076
                                                       throw new ArgumentException(message ?? DefaultIfMessage, argumentName);
00077
00078
00079
08000
                                   #endregion If
00081
                                   #region IfNot
00083
00088 #if (NET45 || NET46 || PORTABLE)
00089
                                   [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
             MethodImplOptions.AggressiveInlining)]
00090 #endif
00091
00092
                                   public static void IfNot (bool condition)
00093
00094
                                             if (!condition)
00095
00096
                                                       throw new ArgumentException(DefaultIfMessage);
00097
                                             }
00098
00099
00109 #if (NET45 || NET46 || PORTABLE)
                                  [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
00110
              MethodImplOptions.AggressiveInlining)]
00111 #endif
00112
```

```
public static void IfNot(bool condition, string argumentName, string message = null)
00114
00115
                  if (!condition)
00116
                  {
00117
                      throw new ArgumentException (message ?? DefaultIfMessage, argumentName);
00118
                  }
00119
00120
00121
              #endregion IfNot
00122
              #region IfIsNotValid
00123
00124
00130 #if (NET45 || NET46 || PORTABLE)
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
     MethodImplOptions.AggressiveInlining)]
00132 #endif
00133
00134
              public static void IfIsNotValid<TArg>(TArg argument)
00135
00136
                  IList<ValidationError> validationErrors;
00137
                  if (!ObjectValidator.Validate(argument, out validationErrors))
00138
00139
                      throw new ArgumentException(ObjectValidator.
     FormatValidationErrors(validationErrors, null));
00140
                 }
00141
00142
00153 #if (NET45 || NET46 || PORTABLE)
00154
             [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
     MethodImplOptions.AggressiveInlining)]
00155 #endif
00156
00157
              public static void IfIsNotValid<TArg>(TArg argument, string argumentName, string message = null)
00158
                  IList<ValidationError> validationErrors;
if (!ObjectValidator.Validate(argument, out validationErrors))
00159
00160
00161
00162
                      throw new ArgumentException(ObjectValidator.
     FormatValidationErrors(validationErrors, message), argumentName);
00163
00164
              }
00165
              #endregion IfIsNotValid
00166
00167
00168
              #region IfIsNotValidEmailAddress
00169
00170
              private const string \ DefaultIfIsNotValidEmailAddressMessage = "String \"\{0\}\" is not a valid email
       address";
00171
00176 #if (NET45 || NET46 || PORTABLE)
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00177
     MethodImplOptions.AggressiveInlining)]
00178 #endif
00179
              public static void IfIsNotValidEmailAddress(string emailAddress)
00180
00181
00182
                  if (!EmailAddressValidator.Validate(emailAddress))
00183
                  {
00184
                      00185
                      throw new ArgumentException(exceptionMsg);
00186
                  }
00187
00188
00194 #if (NET45 || NET46 || PORTABLE)
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00195
     MethodImplOptions.AggressiveInlining)]
00196 #endif
00197
              public static void IfIsNotValidEmailAddress(string emailAddress,
00198
      EmailAddressValidator.Options validatorOptions)
00199
00200
                  if (!EmailAddressValidator.Validate(emailAddress, validatorOptions
     ))
00201
                  {
00202
                      var exceptionMsg = string.Format(DefaultIfIsNotValidEmailAddressMessage, emailAddress);
                      throw new ArgumentException(exceptionMsg);
00203
00204
                  }
00205
00206
00216 #if (NET45 || NET46 || PORTABLE)
             [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00217
      MethodImplOptions.AggressiveInlining)]
00218 #endif
00219
00220
              public static void IfIsNotValidEmailAddress(string emailAddress, string
      argumentName, string message = null)
00221
              {
```

```
00222
                                                        if (!EmailAddressValidator.Validate(emailAddress))
 00223
00224
                                                                   var exceptionMsg = message ?? string.Format(DefaultIfIsNotValidEmailAddressMessage,
                  emailAddress);
 00225
                                                                   throw new ArgumentException(exceptionMsg, argumentName);
 00226
                                                       }
 00228
 00239 #if (NET45 || NET46 || PORTABLE)
00240
                                           [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
                 MethodImplOptions.AggressiveInlining)]
00241 #endif
00242
                                           public static void IfIsNotValidEmailAddress(string emailAddress, string
                   argumentName, EmailAddressValidator.Options validatorOptions, string message = null
00244
                                                       if (!EmailAddressValidator.Validate(emailAddress, validatorOptions
00245
                  ))
 00246
                                                      {
                                                                   var exceptionMsg = message ?? string.Format(DefaultIfIsNotValidEmailAddressMessage,
 00247
                  emailAddress);
 00248
                                                                   throw new ArgumentException(exceptionMsg, argumentName);
 00249
 00250
                                           }
 00251
 00252
                                           #endregion IfIsNotValidEmailAddress
 00253
 00254
                                           #region IfIsNotValidPhoneNumber
00255
                                           private const string DefaultIfIsNotValidPhoneNumberMessage = "String \"{0}\" is not a valid phone
00256
                     number";
 00257
 00262 #if (NET45 || NET46 || PORTABLE)
                                           [System.Runtime.CompilerServices.MethodImpl (System.Runtime.CompilerServices.MethodImpl (System.Runtime.Comp
00263
                MethodImplOptions.AggressiveInlining)]
 00264 #endif
 00265
 00266
                                           public static void IfIsNotValidPhoneNumber(string phoneNumber)
 00267
 00268
                                                        if (!PhoneNumberValidator.Validate(phoneNumber))
 00269
                                                       {
 00270
                                                                    var exceptionMsg = string.Format(DefaultIfIsNotValidPhoneNumberMessage, phoneNumber):
 00271
                                                                   throw new ArgumentException(exceptionMsg);
 00272
                                                       }
 00273
                                           }
00274
00284 #if (NET45 || NET46 || PORTABLE)
00285
                                           [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
                 MethodImplOptions.AggressiveInlining)]
 00286 #endif
 00287
 00288
                                           public static void IfIsNotValidPhoneNumber(string phoneNumber, string
                  argumentName, string message = null)
 00289
                                           {
 00290
                                                        if (!PhoneNumberValidator.Validate(phoneNumber))
 00291
 00292
                                                                   var exceptionMsg = message ?? string.Format(DefaultIfIsNotValidPhoneNumberMessage,
                  phoneNumber);
 00293
                                                                   throw new ArgumentException(exceptionMsg, argumentName);
 00294
 00295
                                           }
 00296
 00297
                                           #endregion IfIsNotValidPhoneNumber
 00298
00299
                                          #region String validation
00300
                                           private const string StringIsNullOrEmptyMessage = "Argument cannot be a null or empty string";
00301
                                          private const string StringIsNullOrWhiteSpaceMessage = "Argument cannot be a null, empty or blank
00302
                     string";
00303
 00308 #if (NET45 || NET46 || PORTABLE)
 00309
                                           [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
                MethodImplOptions.AggressiveInlining)]
 00310 #endif
 00311
 00312
                                           public static void IfIsNullOrEmpty(string value)
 00313
 00314
                                                        if (ReferenceEquals(value, null) || string.Empty.Equals(value))
 00315
                                                       {
 00316
                                                                   throw new ArgumentException(StringIsNullOrEmptyMessage);
 00317
                                                       }
 00318
00319
00329 #if (NET45 || NET46 || PORTABLE)
                                          [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
00330
                  MethodImplOptions.AggressiveInlining)]
```

```
00333
              public static void IfIsNullOrEmpty(string value, string argumentName, string message
       = null)
00334
                  if (ReferenceEquals(value, null) || string.Empty.Equals(value))
00335
                  {
00337
                      throw new ArgumentException(message ?? StringIsNullOrEmptyMessage, argumentName);
00338
00339
00340
00345 #if (NET45 || NET46 || PORTABLE)
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00346
     MethodImplOptions.AggressiveInlining)]
00347 #endif
00348
              public static void IfIsNullOrWhiteSpace(string value)
00349
00350
00351
                  if (ReferenceEquals(value, null) || string.Empty.Equals(value.Trim()))
00352
                  {
00353
                      throw new ArgumentException(StringIsNullOrWhiteSpaceMessage);
00354
                  }
00355
              }
00356
00366 #if (NET45 || NET46 || PORTABLE)
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
     MethodImplOptions.AggressiveInlining)]
00368 #endif
00369
00370
              public static void IfIsNullOrWhiteSpace(string value, string argumentName,
     string message = null)
00371
              {
00372
                  if (ReferenceEquals(value, null) || string.Empty.Equals(value.Trim()))
00373
00374
                      throw new ArgumentException(message ?? StringIsNullOrWhiteSpaceMessage, argumentName);
00375
00376
              }
00377
00378
              #endregion String validation
00379
00380
              #region Collection validation
00381
              internal const string CollectionIsNullOrEmptyMessage = "Argument cannot be a null or empty
00382
      collection";
00383
00389 #if (NET45 || NET46 || PORTABLE)
00390
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
     MethodImplOptions.AggressiveInlining)]
00391 #endif
00392
              public static void IfIsNullOrEmpty<TItem>(ICollection<TItem> value)
00394
00395
                  if (ReferenceEquals(value, null) || value.Count == 0)
00396
                      throw new ArgumentException(CollectionIsNullOrEmptyMessage);
00397
00398
                  }
00399
00400
00411 #if (NET45 || NET46 || PORTABLE)
00412
              [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
      MethodImplOptions.AggressiveInlining)]
00413 #endif
00414
00415
              public static void IfIsNullOrEmpty<TItem>(ICollection<TItem> value, string argumentName, string
      message = null)
00416
              {
00417
                  if (ReferenceEquals(value, null) || value.Count == 0)
00418
                  {
00419
                      throw new ArgumentException(message ?? CollectionIsNullOrEmptyMessage, argumentName);
00420
                  }
00421
00422
00423
              #endregion Collection validation
          }
00424
00425 }
```

7.27 Obsolete/RaiseArgumentNullException.cs File Reference

Classes

· class PommaLabs.Thrower.RaiseArgumentNullException

Utility methods which can be used to handle null references.

Namespaces

• namespace PommaLabs.Thrower

7.28 RaiseArgumentNullException.cs

```
00001 // File name: RaiseArgumentNullException.cs
00002 //
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00004 //
00005 // The MIT License (MIT)
00006 //
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00008 //
00009 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and 00010 // associated documentation files (the "Software"), to deal in the Software without restriction,
00011 // including without limitation the rights to use, copy, modify, merge, publish, distribute, 00012 // sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
00013 // furnished to do so, subject to the following conditions:
00014 //
00015 // The above copyright notice and this permission notice shall be included in all copies or 00016 // substantial portions of the Software.
00017 //
00018 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT 00019 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
00020 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00023
00024 using PommaLabs. Thrower. Reflection;
00025 using System;
00026
00027 namespace PommaLabs.Thrower
00028 {
                   [Obsolete("Please use Raise.ArgumentNullException.If* overloads, this class has been deprecated")]
00035
                  public sealed class RaiseArgumentNullException :
00036
          RaiseBase
00037
               {
00038
                         #region Classes
00039
00045 #if (NET45 || NET46 || PORTABLE)
                         [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00046
           MethodImplOptions.AggressiveInlining)]
00047 #endif
00048
00049
                          public static void IfIsNull<TArg>(TArg argument)
00050
                                  if (!PortableTypeInfo.IsValueType(typeof(TArg)) && ReferenceEquals(
00051
          argument, null))
00052
                               {
00053
                                          throw new ArgumentNullException();
00054
                                  }
00055
                         }
00056
00063 #if (NET45 || NET46 || PORTABLE)
                          [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
           MethodImplOptions.AggressiveInlining)]
00065 #endif
00066
00067
                          public static void IfIsNull<TArg>(TArg argument, string argumentName)
00068
                          {
00069
                                  if (!PortableTypeInfo.IsValueType(typeof(TArg)) && ReferenceEquals(
          argument, null))
00070
                                {
00071
                                          throw new ArgumentNullException(argumentName);
00072
                                  }
00073
                          }
00082 #if (NET45 || NET46 || PORTABLE)
                          [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
          MethodImplOptions.AggressiveInlining)]
00084 #endif
00085
                          public static void IfIsNull<TArg>(TArg argument, string argumentName, string message)
00087
00088
                                  if (!PortableTypeInfo.IsValueType(typeof(TArg)) && ReferenceEquals(
          argument, null))
00089
                                 {
00090
                                          throw new ArgumentNullException(argumentName, message);
00091
                                  }
00092
                          }
```

```
00094
                                    #endregion Classes
00095
00096
                                   #region Nullable structs
00097
00103 #if (NET45 || NET46 || PORTABLE)
                                   [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00104
              MethodImplOptions.AggressiveInlining)]
00105 #endif
00106
                                   public static void IfIsNull<TArg>(TArg? argument)
00107
00108
                                            where TArg : struct
00109
00110
                                               if (!argument.HasValue)
00111
00112
                                                         throw new ArgumentNullException();
00113
                                               }
00114
                                   }
00122 #if (NET45 || NET46 || PORTABLE)
                                    [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
             MethodImplOptions.AggressiveInlining)]
00124 #endif
00125
00126
                                   public static void IfIsNull<TArg>(TArg? argument, string argumentName)
00127
                                            where TArg : struct
00128
00129
                                               if (!argument.HasValue)
00130
00131
                                                         throw new ArgumentNullException(argumentName);
00132
                                               }
00133
                                   }
00134
00142 #if (NET45 || NET46 || PORTABLE)
00143
                                    [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
             MethodImplOptions.AggressiveInlining)]
00144 #endif
00146
                                   public static void IfIsNull<TArg>(TArg? argument, string argumentName, string message)
00147
                                           where TArg : struct
00148
                                    {
00149
                                               if (!argument.HasValue)
00150
00151
                                                         throw new ArgumentNullException(argumentName, message);
00152
00153
                                   }
00154
00155
                                    #endregion Nullable structs
                         }
00156
00157 }
```

7.29 Obsolete/RaiseArgumentOutOfRangeException.cs File Reference

Classes

· class PommaLabs.Thrower.RaiseArgumentOutOfRangeException

Utility methods which can be used to handle ranges.

Namespaces

namespace PommaLabs.Thrower

7.30 RaiseArgumentOutOfRangeException.cs

```
00001 // File name: RaiseArgumentOutOfRangeException.cs
00002 //
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00004 //
00005 // The MIT License (MIT)
00006 //
```

```
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00008 //
00009 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and 00010 // associated documentation files (the "Software"), to deal in the Software without restriction,
00011 // including without limitation the rights to use, copy, modify, merge, publish, distribute, 00012 // sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
00013 // furnished to do so, subject to the following conditions:
00014 //
00015 // The above copyright notice and this permission notice shall be included in all copies or
00016 // substantial portions of the Software.
00017 //
00018 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT 00019 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND 00020 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00023
00024 using System;
00026 namespace PommaLabs.Thrower
00027 {
00034
            [Obsolete("Please use Raise.ArgumentOutOfRangeException.If* overloads, this class has been deprecated")
00035
           public sealed class RaiseArgumentOutOfRangeException :
      RaiseBase
00036
         {
00037
                #region If
00038
00044 #if (NET45 || NET46 || PORTABLE)
00045
                [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
      MethodImplOptions.AggressiveInlining)]
00046 #endif
00047
00048
                public static void If(bool condition, string argumentName = null)
00049
00050
                     if (condition)
00051
                    {
00052
                         throw string.IsNullOrEmpty(argumentName) ? new ArgumentOutOfRangeException() : new
      ArgumentOutOfRangeException(argumentName);
00053
00054
00055
00065 #if (NET45 || NET46 || PORTABLE)
                [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00066
      MethodImplOptions.AggressiveInlining)]
00067 #endif
00068
00069
                public static void If(bool condition, string argumentName, string message)
00070
00071
                     if (condition)
00072
                    {
00073
                         throw new ArgumentOutOfRangeException(argumentName, message);
00074
00075
                }
00076
00077
                #endregion If
00078
00079
                #region IfNot
00080
00086 #if (NET45 || NET46 || PORTABLE)
00087
                [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
      MethodImplOptions.AggressiveInlining)]
00088 #endif
00089
00090
                public static void IfNot(bool condition, string argumentName = null)
00091
00092
                     if (!condition)
00093
                     {
                         throw string.IsNullOrEmpty(argumentName) ? new ArgumentOutOfRangeException() : new
00094
      ArgumentOutOfRangeException(argumentName);
00095
00096
00097
00107 #if (NET45 || NET46 || PORTABLE)
                [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00108
      MethodImplOptions.AggressiveInlining)]
00109 #endif
00110
00111
                public static void IfNot(bool condition, string argumentName, string message)
00112
00113
                     if (!condition)
00114
                     {
00115
                         throw new ArgumentOutOfRangeException(argumentName, message);
00116
                     }
00117
                }
00118
                #endregion IfNot
00119
```

```
00121
              #region Less - Without parameter name, without message
00122
00130 #if (NET45 || NET46 || PORTABLE)
              [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
00131
      MethodImplOptions.AggressiveInlining)]
00132 #endif
00133
00134
              public static void IfIsLess<TArg>(TArg argument1, TArg argument2)
00135
                  where TArg : IComparable<TArg>
              {
00136
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) < 0)</pre>
00137
00138
                  {
00139
                       throw new ArgumentOutOfRangeException();
00140
                  }
00141
              }
00142
00149 #if (NET45 || NET46 || PORTABLE)
00150
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
      MethodImplOptions.AggressiveInlining)]
00151 #endif
00152
00153
              public static void IfIsLess (IComparable argument1, IComparable argument2)
00154
00155
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) < 0)</pre>
00156
                  {
00157
                       throw new ArgumentOutOfRangeException();
00158
                  }
00159
              }
00160
00161
              #endregion Less - Without parameter name, without message
00162
00163
              #region Less - With parameter name, without message
00164
00173 #if (NET45 || NET46 || PORTABLE)
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00174
     MethodImplOptions.AggressiveInlining)]
00175 #endif
00176
00177
              public static void IfIsLess<TArg>(TArg argument1, TArg argument2, string argumentName)
00178
                  where TArg : IComparable<TArg>
00179
              {
00180
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) < 0)</pre>
00181
                  {
00182
                       throw new ArgumentOutOfRangeException(argumentName);
00183
                  }
00184
              }
00185
00193 #if (NET45 || NET46 || PORTABLE)
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00194
      MethodImplOptions.AggressiveInlining)]
00195 #endif
00196
00197
              public static void IfIsLess (IComparable argument1, IComparable argument2, string
     argumentName)
00198
              {
00199
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) < 0)</pre>
00200
                  {
00201
                       throw new ArgumentOutOfRangeException(argumentName);
00202
                  }
00203
              }
00204
00205
              #endregion Less - With parameter name, without message
00206
00207
              #region Less - With parameter name, with message
00208
00218 #if (NET45 || NET46 || PORTABLE)
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00219
     MethodImplOptions.AggressiveInlining)]
00220 #endif
00221
00222
              public static void IfIsLess<TArg>(TArg argument1, TArg argument2, string argumentName, string
     message)
00223
                  where TArg : IComparable<TArg>
00224
              {
00225
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) < 0)</pre>
00226
                  {
00227
                      throw new ArgumentOutOfRangeException(argumentName, argument1, message);
00228
                  }
00229
              }
00230
00239 #if (NET45 || NET46 || PORTABLE)
              [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
00240
     MethodImplOptions.AggressiveInlining)]
00241 #endif
00242
00243
              public static void IfIsLess (IComparable argument), IComparable argument2, string
```

```
argumentName, string message)
00244
                       {
00245
                              if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) < 0)</pre>
00246
00247
                                      throw new ArgumentOutOfRangeException(argumentName, argument1, message);
00248
                              }
00249
                       }
00250
00251
                        #endregion Less - With parameter name, with message
00252
00253
                        #region LessEqual - Without parameter name, without message
00254
00262 #if (NET45 || NET46 || PORTABLE)
                       [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
         MethodImplOptions.AggressiveInlining)]
00264 #endif
00265
00266
                       public static void IfIsLessOrEqual<TArg>(TArg argument1, TArg argument2)
00267
                              where TArg : IComparable < TArg >
00268
                        {
                               if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) <= 0)</pre>
00269
00270
00271
                                     throw new ArgumentOutOfRangeException();
00272
00273
                       }
00274
00281 #if (NET45 || NET46 || PORTABLE)
                       [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00282
         MethodImplOptions.AggressiveInlining)]
00283 #endif
00284
                       public static void IfIsLessOrEqual(IComparable argument1, IComparable argument2)
00286
00287
                               if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) <= 0)</pre>
00288
00289
                                      throw new ArgumentOutOfRangeException();
00290
                              }
00291
00292
00293
                        #endregion LessEqual - Without parameter name, without message
00294
00295
                        #region LessEqual - With parameter name, without message
00296
00305 #if (NET45 || NET46 || PORTABLE)
00306
                       [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
         MethodImplOptions.AggressiveInlining)]
00307 #endif
00308
                       public static void IfIsLessOrEqual<TArg>(TArg argument1, TArg argument2, string argumentName)
00309
00310
                              where TArg : IComparable<TArg>
00311
                        {
00312
                               if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) <= 0)</pre>
00313
00314
                                     throw new ArgumentOutOfRangeException(argumentName);
00315
                              }
00316
00325 #if (NET45 || NET46 || PORTABLE)
                       [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
         MethodImplOptions.AggressiveInlining)]
00327 #endif
00328
00329
                       public static void IfIsLessOrEqual(IComparable argument1, IComparable argument2,
         string argumentName)
00330
00331
                              if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) <= 0)</pre>
00332
                              {
00333
                                     throw new ArgumentOutOfRangeException(argumentName);
00334
                              }
00335
                       }
00336
00337
                        #endregion LessEqual - With parameter name, without message
00338
                       \#region LessEqual - With parameter name, with message
00339
00340
00350 #if (NET45 || NET46 || PORTABLE)
00351
                       [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
          MethodImplOptions.AggressiveInlining)]
00352 #endif
00353
                       public static void IfIsLessOrEqual<TArg> (TArg argument1, TArg argument2, string argumentName,
00354
          string message)
00355
                              where TArg : IComparable<TArg>
00356
00357
                              if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) <= 0)</pre>
00358
                              {
                                     throw new ArgumentOutOfRangeException(argumentName, argument1, message);
00359
```

```
00360
                                                        }
 00361
 00362
00371 #if (NET45 || NET46 || PORTABLE)
                                          [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
00372
                  MethodImplOptions.AggressiveInlining)]
 00373 #endif
 00374
00375
                                           public static void IfIsLessOrEqual(IComparable argument1, IComparable argument2,
                  string argumentName, string message)
00376
                                           {
00377
                                                         if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) <= 0)
 00378
                                                        {
 00379
                                                                     throw new ArgumentOutOfRangeException(argumentName, argument1, message);
 00380
                                                        }
 00381
                                           }
 00382
 00383
                                            #endregion LessEqual - With parameter name, with message
 00384
 00385
                                            #region Greater - Without parameter name, without message
 00386
 00394 #if (NET45 || NET46 || PORTABLE)
                                           [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
00395
                 MethodImplOptions.AggressiveInlining)]
 00396 #endif
 00397
 00398
                                           public static void IfIsGreater<TArg>(TArg argument1, TArg argument2)
 00399
                                                       where TArg : IComparable<TArg>
 00400
 00401
                                                        if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) > 0)
 00402
                                                        {
 00403
                                                                     throw new ArgumentOutOfRangeException();
 00404
 00405
 00406
 00413 #if (NET45 || NET46 || PORTABLE)
                                           [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00414
                 MethodImplOptions.AggressiveInlining)]
 00415 #endif
 00416
 00417
                                           public static void IfIsGreater(IComparable argument1, IComparable argument2)
 00418
 00419
                                                         if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) > 0)
 00420
                                                        {
 00421
                                                                     throw new ArgumentOutOfRangeException();
 00422
00423
                                           }
00424
 00425
                                            #endregion Greater - Without parameter name, without message
00426
 00427
                                            #region Greater - With parameter name, without message
 00428
 00437 #if (NET45 || NET46 || PORTABLE)
00438
                                           [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
                 MethodImplOptions.AggressiveInlining)]
 00439 #endif
 00440
 00441
                                           public static void IfIsGreater<TArg>(TArg argument1, TArg argument2, string argumentName)
 00442
                                                       where TArg : IComparable<TArg>
 00443
 00444
                                                         \begin{tabular}{ll} \textbf{if} & (Reference Equals (argument 1, null) & | & | & | & | & | & | \\ \end{tabular} 
 00445
                                                        {
 00446
                                                                     throw new ArgumentOutOfRangeException(argumentName);
 00447
 00448
00449
00457 #if (NET45 || NET46 || PORTABLE)
                                           [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00458
                 MethodImplOptions.AggressiveInlining) ]
 00459 #endif
 00460
00461
                                           public static void IfIsGreater(IComparable argument1, IComparable argument2, string
                  argumentName)
 00462
                                           {
 00463
                                                         if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) > 0)
 00464
 00465
                                                                     throw new ArgumentOutOfRangeException(argumentName);
 00466
 00467
                                           }
00468
 00469
                                            #endregion Greater - With parameter name, without message
 00470
 00471
                                            #region Greater - With parameter name, with message
 00472
00482 #if (NET45 || NET46 || PORTABLE)
                                           [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
00483
                  MethodImplOptions.AggressiveInlining)]
```

```
00484 #endif
00485
00486
              public static void IfIsGreater<TArg>(TArg argument1, TArg argument2, string argumentName, string
     message)
00487
                  where TArg : IComparable<TArg>
00488
              {
00489
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) > 0)
00490
00491
                       throw new ArgumentOutOfRangeException(argumentName, argument1, message);
00492
00493
00494
00503 #if (NET45 || NET46 || PORTABLE)
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
     MethodImplOptions.AggressiveInlining)]
00505 #endif
00506
00507
              public static void IfIsGreater (IComparable argument1, IComparable argument2, string
      argumentName, string message)
00508
              {
00509
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) > 0)
00510
00511
                       throw new ArgumentOutOfRangeException(argumentName, argument1, message);
00512
00513
              }
00514
00515
              #endregion Greater - With parameter name, with message
00516
00517
              #region GreaterEqual - Without parameter name, without message
00518
00526 #if (NET45 || NET46 || PORTABLE)
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00527
      MethodImplOptions.AggressiveInlining)]
00528 #endif
00529
              public static void IfIsGreaterOrEqual<TArg>(TArg argument1, TArg argument2)
00530
00531
                  where TArg : IComparable<TArg>
00532
00533
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) >= 0)
00534
00535
                       throw new ArgumentOutOfRangeException();
00536
                  }
00537
              }
00538
00545 #if (NET45 || NET46 || PORTABLE)
00546
              [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
      MethodImplOptions.AggressiveInlining)]
00547 #endif
00548
00549
              public static void IfIsGreaterOrEqual(IComparable argument), IComparable
     argument2)
00550
00551
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) >= 0)
00552
00553
                       throw new ArgumentOutOfRangeException();
00554
                  }
00555
              }
00556
00557
              #endregion GreaterEqual - Without parameter name, without message
00558
00559
              #region GreaterEqual - With parameter name, without message
00560
00569 #if (NET45 || NET46 || PORTABLE)
              [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
     MethodImplOptions.AggressiveInlining)]
00571 #endif
00572
00573
              public static void IfIsGreaterOrEqual<TArg>(TArg argument), TArg argument2, string argumentName)
00574
                  where TArg : IComparable<TArg>
00575
              {
00576
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) >= 0)
00577
00578
                       throw new ArgumentOutOfRangeException(argumentName);
00579
00580
              }
00589 #if (NET45 || NET46 || PORTABLE)
00590
              [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
     MethodImplOptions.AggressiveInlining)]
00591 #endif
00592
              public static void IfIsGreaterOrEqual(IComparable argument1, IComparable
00593
      argument2, string argumentName)
00594
00595
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) >= 0)
00596
00597
                       throw new ArgumentOutOfRangeException(argumentName);
```

```
}
00599
00600
00601
                        #endregion GreaterEqual - With parameter name, without message
00602
00603
                        #region GreaterEqual - With parameter name, with message
00604
00614 #if (NET45 || NET46 || PORTABLE)
                        [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00615
          MethodImplOptions.AggressiveInlining)]
00616 #endif
00617
00618
                       public static void IfIsGreaterOrEqual<TArg>(TArg argument1, TArg argument2, string argumentName,
          string message)
00619
                              where TArg : IComparable<TArg>
00620
                              if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) >= 0)
00621
00622
                              {
00623
                                     throw new ArgumentOutOfRangeException(argumentName, argument1, message);
00624
                               }
00625
00626
00635 #if (NET45 || NET46 || PORTABLE)
                        [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00636
         MethodImplOptions.AggressiveInlining) ]
00637 #endif
00638
                        public static void IfIsGreaterOrEqual(IComparable argument1, IComparable
00639
         argument2, string argumentName, string message)
00640
                        {
00641
                               if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) >= 0)
00642
                              {
00643
                                      throw new ArgumentOutOfRangeException(argumentName, argument1, message);
00644
                               }
00645
                        }
00646
00647
                        #endregion GreaterEqual - With parameter name, with message
00648
00649
                        #region Equal - Without parameter name, without message
00650
00658 #if (NET45 || NET46 || PORTABLE)
                        [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
00659
         MethodImplOptions.AggressiveInlining)]
00660 #endif
00661
00662
                        public static void IfIsEqual<TArg>(TArg argument1, TArg argument2)
00663
                              where TArg : IComparable<TArg>
00664
                        {
00665
                               if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) == 0)
00666
                               {
00667
                                      throw new ArgumentOutOfRangeException();
00668
                               }
00669
00670
00677 #if (NET45 || NET46 || PORTABLE)
                        [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00678
         MethodImplOptions.AggressiveInlining)]
00679 #endif
00680
00681
                        public static void IfIsEqual(IComparable argument1, IComparable argument2)
00682
00683
                               if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) == 0)
00684
                              {
00685
                                      throw new ArgumentOutOfRangeException();
00686
                               }
00687
                        }
00688
00689
                        #endregion Equal - Without parameter name, without message
00690
00691
                        #region Equal - With parameter name, without message
00692
00701 #if (NET45 || NET46 || PORTABLE)
00702
                        [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
         MethodImplOptions.AggressiveInlining)]
00703 #endif
00704
00705
                        public static void IfIsEqual<TArg>(TArg argument1, TArg argument2, string argumentName)
00706
                              where TArg : IComparable<TArg>
00707
                        {
00708
                               if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) == 0)
00709
                               {
00710
                                      throw new ArgumentOutOfRangeException(argumentName);
00711
                               }
00712
                        }
00713
00721 #if (NET45 || NET46 || PORTABLE)
00722
                        [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
```

```
MethodImplOptions.AggressiveInlining)]
00723 #endif
00724
00725
                        public static void IfIsEqual(IComparable argument1, IComparable argument2, string
          argumentName)
00726
                        {
00727
                               if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) == 0)
00728
00729
                                      throw new ArgumentOutOfRangeException(argumentName);
00730
                               }
00731
                        }
00732
00733
                        #endregion Equal - With parameter name, without message
00734
00735
                        #region Equal - With parameter name, with message
00736
00746 #if (NET45 || NET46 || PORTABLE)
                        [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
00747
         MethodImplOptions.AggressiveInlining)]
00748 #endif
00749
00750
                        public static void IfIsEqual<TArg>(TArg argument1, TArg argument2, string argumentName, string
         message)
00751
                               where TArg : IComparable<TArg>
00752
                        {
00753
                               if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) == 0)
00754
                               {
00755
                                      throw new ArgumentOutOfRangeException(argumentName, argument1, message);
00756
00757
                        }
00758
00767 #if (NET45 || NET46 || PORTABLE)
                        [System. Runtime. Compiler Services. Method Impl (System. Runtime. Runtime. Method Impl (System. Runtime. Runtime. Method Impl (System. Runtime. Runtim
         MethodImplOptions.AggressiveInlining)]
00769 #endif
00770
00771
                        public static void IfIsEqual (IComparable argument1, IComparable argument2, string
          argumentName, string message)
00772
                       {
00773
                               if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) == 0)
00774
00775
                                      throw new ArgumentOutOfRangeException(argumentName, argument1, message);
00776
00777
                        }
00778
00779
                        #endregion Equal - With parameter name, with message
00780
00781
                        #region NotEqual - Without parameter name, without message
00782
00790 #if (NET45 || NET46 || PORTABLE)
00791
                        [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
          MethodImplOptions.AggressiveInlining)]
00792 #endif
00793
00794
                        public static void IfIsNotEqual<TArg>(TArg argument1, TArg argument2)
00795
                              where TArg : IComparable<TArg>
00796
00797
                               if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) != 0)
00798
00799
                                      throw new ArgumentOutOfRangeException();
00800
                               }
00801
00802
00809 #if (NET45 || NET46 || PORTABLE)
                        [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00810
         MethodImplOptions.AggressiveInlining)]
00811 #endif
00812
00813
                        public static void IfIsNotEqual(IComparable argument1, IComparable argument2)
00815
                               if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) != 0)
00816
00817
                                      throw new ArgumentOutOfRangeException();
00818
00819
                        }
00820
00821
                        #endregion NotEqual - Without parameter name, without message
00822
00823
                        #region NotEqual - With parameter name, without message
00824
00833 #if (NET45 || NET46 || PORTABLE)
                        [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
00834
          MethodImplOptions.AggressiveInlining)]
00835 #endif
00836
00837
                        public static void IfIsNotEqual<TArg>(TArg argument1, TArg argument2, string argumentName)
00838
                               where TArg : IComparable<TArg>
```

```
if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) != 0)
00841
00842
                                                                       throw new ArgumentOutOfRangeException(argumentName);
00843
00844
00853 #if (NET45 || NET46 || PORTABLE)
                                             [System. Runtime. Compiler Services. Method Impl (System. Runtime. Runtime. Method Impl (System. Runtime. Runtime. Method Impl (System. Runtime. Runtim
                  MethodImplOptions.AggressiveInlining)]
00855 #endif
00856
00857
                                             public static void IfIsNotEqual(IComparable argument1, IComparable argument2, string
00858
                                            {
00859
                                                          if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) != 0)
00860
00861
                                                                       throw new ArgumentOutOfRangeException(argumentName);
00862
00863
                                             }
00864
00865
                                             #endregion NotEqual - With parameter name, without message
00866
                                             #region NotEqual - With parameter name, with message
00867
00868
00878 #if (NET45 || NET46 || PORTABLE)
00879
                                             [System. Runtime. Compiler Services. Method Impl (System. Runtime. Runtime. Method Impl (System. Runtime. Runtime. Method Impl (System. Runtime. Runtim
                  MethodImplOptions.AggressiveInlining)]
00880 #endif
00881
                                           public static void IfIsNotEqual<TArg>(TArg argument1, TArg argument2, string argumentName, string
00882
                 message)
00883
                                                          where TArg : IComparable < TArg >
00884
00885
                                                          if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) != 0)
00886
00887
                                                                       throw new ArgumentOutOfRangeException(argumentName, argument1, message);
00888
00889
00890
00899 #if (NET45 || NET46 || PORTABLE)
                                             [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
00900
                 MethodImplOptions.AggressiveInlining)]
00901 #endif
00902
00903
                                             public static void IfIsNotEqual(IComparable argument1, IComparable argument2, string
                   argumentName, string message)
00904
                                             {
00905
                                                          if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) != 0)
00906
                                                          {
00907
                                                                       throw new ArgumentOutOfRangeException(argumentName, argument1, message);
00908
00909
00910
00911
                                             #endregion NotEqual - With parameter name, with message
00912
                                }
00913 }
```

7.31 Obsolete/RaiseHttpException.cs File Reference

Classes

class PommaLabs.Thrower.RaiseHttpException

Utility methods which can be used to handle error codes through HTTP.

Namespaces

• namespace PommaLabs.Thrower

7.32 RaiseHttpException.cs

```
00001 // File name: RaiseHttpException.cs
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00004 //
00005 // The MIT License (MIT)
00006 //
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00008 //
00009 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and
00010 // associated documentation files (the "Software"), to deal in the Software without restriction,
00011 // including without limitation the rights to use, copy, modify, merge, publish, distribute, 00012 // sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
00013 // furnished to do so, subject to the following conditions:
00014 //
00015 // The above copyright notice and this permission notice shall be included in all copies or
00016 // substantial portions of the Software.
00017 //
00018 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT 00019 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
00020 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00023
00024 using System;
00025 using System.Net;
00026
00027 namespace PommaLabs.Thrower
00028 {
00033
           [Obsolete("Please use Raise.HttpException.If* overloads, this class has been deprecated")]
00034
           public static class RaiseHttpException
00035
00042 #if (NET45 || NET46 || PORTABLE)
00043
               [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
      MethodImplOptions.AggressiveInlining)]
00045 #endif
00046
00047
               public static void If (bool condition, HttpStatusCode httpStatusCode, string message = null)
00048
00049
                    if (condition)
00050
                   {
00051
                        throw string.IsNullOrEmpty(message) ? new HttpException(httpStatusCode) : new
      HttpException(httpStatusCode, message);
00052
                   }
00053
00054
00062 #if (NET45 || NET46 || PORTABLE)
00063
00064
               [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
     MethodImplOptions.AggressiveInlining)]
00065 #endif
00066
               \verb|public| static| void| \textbf{If} (bool condition, | \texttt{HttpStatusCode}| | \texttt{httpStatusCode}|, | \texttt{string}| | \texttt{message}|, \\
      HttpExceptionInfo additionalInfo)
00068
00069
                    if (condition)
00070
                    {
00071
                        throw new HttpException(httpStatusCode, message, additionalInfo);
00072
00073
00074
00081 #if (NET45 || NET46 || PORTABLE)
00082
               [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00083
      MethodImplOptions.AggressiveInlining)]
00084 #endif
00085
00086
               public static void IfNot(bool condition, HttpStatusCode httpStatusCode, string message = null)
00087
00088
                    if (!condition)
00089
                    {
                        throw string.IsNullOrEmpty(message) ? new HttpException(httpStatusCode) : new
00090
      HttpException(httpStatusCode, message);
00091
00092
               }
00093
00101 #if (NET45 || NET46 || PORTABLE)
               [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00103
      MethodImplOptions.AggressiveInlining)]
00104 #endif
00105
               public static void IfNot (bool condition, HttpStatusCode httpStatusCode, string message,
00106
      HttpExceptionInfo additionalInfo)
```

7.33 Obsolete/RaiseIndexOutOfRangeException.cs File Reference

Classes

· class PommaLabs.Thrower.RaiseIndexOutOfRangeException

Utility methods which can be used to handle indexes.

Namespaces

namespace PommaLabs.Thrower

7.34 RaiseIndexOutOfRangeException.cs

```
00001 // File name: RaiseIndexOutOfRangeException.cs
00002 //
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00005 // The MIT License (MIT)
00006 //
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00008 //
00009 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and 00010 // associated documentation files (the "Software"), to deal in the Software without restriction,
00011 // including without limitation the rights to use, copy, modify, merge, publish, distribute,
00012 // sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
00013 \!\!\!// furnished to do so, subject to the following conditions:
00014 //
00015 // The above copyright notice and this permission notice shall be included in all copies or
00016 // substantial portions of the Software.
00017 //
00018 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT 00019 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
00020 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, 00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00023
00024 using System;
00025
00026 namespace PommaLabs.Thrower
00027 {
            [Obsolete("Please use Raise.IndexOutOfRangeException.If* overloads, this class has been deprecated")]
00034
00035
           public sealed class RaiseIndexOutOfRangeException :
       RaiseBase
00036
00037
                #region Less - Without message
00038
00046 #if (NET45 || NET46 || PORTABLE)
                [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00047
      MethodImplOptions.AggressiveInlining)]
00048 #endif
00049
                public static void IfIsLess<TArg>(TArg argument1, TArg argument2)
00050
00051
                     where TArg : IComparable<TArg>
00052
                {
00053
                     if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) < 0)</pre>
00054
00055
                          throw new IndexOutOfRangeException();
00056
                     }
00057
                }
00065 #if (NET45 || NET46 || PORTABLE)
```

```
00066
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
      MethodImplOptions.AggressiveInlining)]
00067 #endif
00068
00069
              public static void IfIsLess (IComparable argument1, IComparable argument2)
00070
00071
                   if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) < 0)</pre>
00072
00073
                       throw new IndexOutOfRangeException();
00074
00075
              }
00076
00077
              #endregion Less - Without message
00078
00079
              #region Less - With message
00080
00089 #if (NET45 || NET46 || PORTABLE)
00090
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
     MethodImplOptions.AggressiveInlining)]
00091 #endif
00092
00093
              public static void IfIsLess<TArg>(TArg argument1, TArg argument2, string message)
00094
                  where TArg : IComparable<TArg>
00095
00096
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) < 0)
00097
                  {
00098
                       throw new IndexOutOfRangeException(message);
00099
                  }
00100
              }
00101
00109 #if (NET45 || NET46 || PORTABLE)
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00110
      MethodImplOptions.AggressiveInlining)]
00111 #endif
00112
              public static void IfIsLess (IComparable argument1, IComparable argument2, string message)
00113
00114
00115
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) < 0)</pre>
00116
                  {
00117
                       throw new IndexOutOfRangeException(message);
00118
                  }
00119
              }
00120
00121
              #endregion Less - With message
00122
00123
              #region LessEqual - Without message
00124
00132 #if (NET45 || NET46 || PORTABLE)
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00133
     MethodImplOptions.AggressiveInlining)]
00134 #endif
00135
00136
              public static void IfIsLessOrEqual<TArg>(TArg argument1, TArg argument2)
00137
                  where TArg : IComparable<TArg>
00138
00139
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) <= 0)</pre>
00140
00141
                       throw new IndexOutOfRangeException();
00142
                  }
00143
              }
00144
00151 #if (NET45 || NET46 || PORTABLE)
00152
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
      MethodImplOptions.AggressiveInlining)]
00153 #endif
00154
00155
              public static void IfIsLessOrEqual (IComparable argument1, IComparable argument2)
00156
00157
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) <= 0)
00158
                  {
00159
                       throw new IndexOutOfRangeException();
00160
                  }
00161
              }
00162
00163
              #endregion LessEqual - Without message
00164
00165
              #region LessEqual - With message
00166
00175 #if (NET45 || NET46 || PORTABLE)
00176
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
     MethodImplOptions.AggressiveInlining)]
00177 #endif
00178
00179
              public static void IfIsLessOrEqual<TArg>(TArg argument1, TArg argument2, string message)
00180
                  where TArg : IComparable<TArg>
00181
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) <= 0)
00182
```

```
{
                      throw new IndexOutOfRangeException(message);
00184
00185
                  }
00186
              }
00187
00195 #if (NET45 || NET46 || PORTABLE)
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00196
     MethodImplOptions.AggressiveInlining)]
00197 #endif
00198
              public static void IfIsLessOrEqual(IComparable argument1, IComparable argument2,
00199
     string message)
00200
              {
00201
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) <= 0)
00202
                  {
00203
                      throw new IndexOutOfRangeException(message);
00204
                  }
00205
              }
00206
00207
              #endregion LessEqual - With message
00208
              #region Greater - Without message
00209
00210
00218 #if (NET45 || NET46 || PORTABLE)
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00219
      MethodImplOptions.AggressiveInlining)]
00220 #endif
00221
00222
              public static void IfIsGreater<TArg>(TArg argument1, TArg argument2)
00223
                  where TArg : IComparable<TArg>
00224
              {
00225
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) > 0)
00226
00227
                      throw new IndexOutOfRangeException();
00228
                  }
00229
00230
00237 #if (NET45 || NET46 || PORTABLE)
00238
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
      MethodImplOptions.AggressiveInlining)]
00239 #endif
00240
00241
              public static void IfIsGreater (IComparable argument1, IComparable argument2)
00242
00243
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) > 0)
00244
00245
                      throw new IndexOutOfRangeException();
00246
                  }
00247
              }
00248
00249
              #endregion Greater - Without message
00250
00251
              #region Greater - With message
00252
00261 #if (NET45 || NET46 || PORTABLE)
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00262
     MethodImplOptions.AggressiveInlining)]
00263 #endif
00264
00265
              public static void IfIsGreater<TArg>(TArg argument1, TArg argument2, string message)
00266
                  where TArg : IComparable<TArg>
00267
00268
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) > 0)
00269
                  {
00270
                      throw new IndexOutOfRangeException(message);
00271
                  }
00272
              }
00273
00281 #if (NET45 || NET46 || PORTABLE)
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00282
      MethodImplOptions.AggressiveInlining)]
00283 #endif
00284
              public static void IfIsGreater(IComparable argument1, IComparable argument2, string
00285
     message)
00286
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) > 0)
00287
00288
                  {
00289
                      throw new IndexOutOfRangeException(message);
00290
                  }
00291
              }
00292
00293
              #endregion Greater - With message
00294
00295
              #region GreaterEqual - Without message
00296
00304 #if (NET45 || NET46 || PORTABLE)
```

```
00305
                        [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
          MethodImplOptions.AggressiveInlining)]
00306 #endif
00307
                        public static void IfIsGreaterOrEqual<TArg>(TArg argument1, TArg argument2)
00308
00309
                               where TArg : IComparable<TArg>
00310
00311
                               if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) >= 0)
00312
00313
                                      throw new IndexOutOfRangeException();
                               }
00314
00315
                        }
00316
00323 #if (NET45 || NET46 || PORTABLE)
00324
                        [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
          MethodImplOptions.AggressiveInlining)]
00325 #endif
00326
00327
                        public static void IfIsGreaterOrEqual(IComparable argument1, IComparable
         argument2)
00328
                        {
00329
                               if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) >= 0)
00330
                               {
00331
                                      throw new IndexOutOfRangeException();
00332
                               }
00333
                        }
00334
00335
                        #endregion GreaterEqual - Without message
00336
00337
                        #region GreaterEqual - With message
00338
00347 #if (NET45 || NET46 || PORTABLE)
                        [System. Runtime. Compiler Services. Method Impl (System. Runtime. Runtime. Method Impl (System. Runtime. Runtime. Method Impl (System. Runtime. Runtim
         MethodImplOptions.AggressiveInlining)]
00349 #endif
00350
00351
                        public static void IfIsGreaterOrEqual<TArg>(TArg argument1, TArg argument2, string message)
00352
                               where TArg : IComparable<TArg>
00353
                        {
00354
                               if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) >= 0)
00355
00356
                                      throw new IndexOutOfRangeException (message);
00357
00358
                        }
00359
00367 #if (NET45 || NET46 || PORTABLE)
00368
                        [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
         MethodImplOptions.AggressiveInlining)]
00369 #endif
00370
00371
                        public static void IfIsGreaterOrEqual(IComparable argument1, IComparable
          argument2, string message)
00372
                       {
00373
                                if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) >= 0)
00374
                               {
00375
                                      throw new IndexOutOfRangeException (message);
00376
00377
                        }
00378
00379
                        #endregion GreaterEqual - With message
00380
00381
                        #region Equal - Without message
00382
00390 #if (NET45 || NET46 || PORTABLE)
                        [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00391
         MethodImplOptions.AggressiveInlining)]
00392 #endif
00393
00394
                        public static void IfIsEqual<TArg>(TArg argument1, TArg argument2)
00395
                              where TArg : IComparable<TArg>
00396
00397
                               if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) == 0)
00398
00399
                                      throw new IndexOutOfRangeException();
00400
                               }
00401
00402
00409 #if (NET45 || NET46 || PORTABLE)
00410
                        [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
         MethodImplOptions.AggressiveInlining)]
00411 #endif
00412
00413
                        public static void IfIsEqual(IComparable argument1, IComparable argument2)
00414
00415
                                if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) == 0)
00416
00417
                                      throw new IndexOutOfRangeException();
```

```
00418
                                                          }
 00419
 00420
00421
                                              #endregion Equal - Without message
00422
00423
                                              #region Equal - With message
 00424
 00433 #if (NET45 || NET46 || PORTABLE)
                                              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00434
                  MethodImplOptions.AggressiveInlining)]
00435 #endif
00436
 00437
                                              public static void IfIsEqual<TArg>(TArg argument1, TArg argument2, string message)
 00438
                                                          where TArg : IComparable < TArg >
 00439
 00440
                                                           if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) == 0)
 00441
 00442
                                                                        throw new IndexOutOfRangeException(message);
 00443
 00444
 00445
 00453 #if (NET45 || NET46 || PORTABLE)
                                              [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
00454
                  MethodImplOptions.AggressiveInlining)]
 00455 #endif
 00456
 00457
                                              public static void IfIsEqual(IComparable argument1, IComparable argument2, string message)
 00458
 00459
                                                            if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) == 0)
 00460
                                                           {
 00461
                                                                        throw new IndexOutOfRangeException(message);
 00462
                                                           }
 00463
 00464
00465
                                              #endregion Equal - With message
00466
00467
                                              #region NotEqual - Without message
 00468
 00476 #if (NET45 || NET46 || PORTABLE)
                                              [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
                  MethodImplOptions.AggressiveInlining)]
00478 #endif
00479
 00480
                                              public static void IfIsNotEqual<TArg>(TArg argument1, TArg argument2)
 00481
                                                          where TArg : IComparable<TArg>
 00482
00483
                                                           if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) != 0)
 00484
                                                           {
 00485
                                                                        throw new IndexOutOfRangeException();
00486
                                                           }
 00487
                                              }
 00488
00495 #if (NET45 || NET46 || PORTABLE)
00496
                                              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
                  MethodImplOptions.AggressiveInlining)]
 00497 #endif
 00498
 00499
                                              public static void IfIsNotEqual(IComparable argument1, IComparable argument2)
 00500
 00501
                                                            if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) != 0)
00502
                                                           {
 00503
                                                                        throw new IndexOutOfRangeException();
 00504
                                                           }
 00505
 00506
00507
                                              #endregion NotEqual - Without message
00508
00509
                                              #region NotEqual - With message
00510
 00519 #if (NET45 || NET46 || PORTABLE)
                                              [System. Runtime. Compiler Services. Method Impl (System. Runtime. Runtime. Method Impl (System. Runtime. Runtime. Method Impl (System. Runtime. Runtim
 00520
                  MethodImplOptions.AggressiveInlining)]
 00521 #endif
00522
 00523
                                              public static void IfIsNotEqual<Targ>(Targ argument1, Targ argument2, string message)
 00524
                                                          where TArg : IComparable < TArg >
 00525
 00526
                                                            if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) != 0)
 00527
00528
                                                                        throw new IndexOutOfRangeException (message);
00529
                                                           }
 00530
                                              }
 00531
 00539 #if (NET45 || NET46 || PORTABLE)
00540
                                              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
                  MethodImplOptions.AggressiveInlining) ]
00541 #endif
```

```
00542
              public static void IfIsNotEqual(IComparable argument1, IComparable argument2, string
      message)
00544
00545
                  if (ReferenceEquals(argument1, null) || argument1.CompareTo(argument2) != 0)
00546
                      throw new IndexOutOfRangeException(message);
00548
00549
00550
00551
              #endregion NotEqual - With message
         }
00552
00553 }
```

7.35 Obsolete/RaiseInvalidOperationException.cs File Reference

Classes

• class PommaLabs.Thrower.RaiseInvalidOperationException

Utility methods which can be used to handle bad object states.

Namespaces

namespace PommaLabs.Thrower

7.36 RaiseInvalidOperationException.cs

```
00001 // File name: RaiseInvalidOperationException.cs
00002 //
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00004 //
00005 // The MIT License (MIT)
00006 //
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00008 //
00009 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and
00010 // associated documentation files (the "Software"), to deal in the Software without restriction,
00011 // including without limitation the rights to use, copy, modify, merge, publish, distribute, 00012 // sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
00013 // furnished to do so, subject to the following conditions:
00014 //
00015 // The above copyright notice and this permission notice shall be included in all copies or
00016 // substantial portions of the Software.
00018 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT
00019 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
00020 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00023
00024 using System;
00025
00026 namespace PommaLabs.Thrower
00027 {
            \texttt{[Obsolete("Please use Raise.InvalidOperationException.If* overloads, this class has been deprecated")]} \\
00034
00035
          public sealed class RaiseInvalidOperationException :
      RaiseBase
00036
00042 #if (NET45 || NET46 || PORTABLE)
00043
               [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
      MethodImplOptions.AggressiveInlining)]
00044 #endif
00045
00046
               public static void If(bool condition, string message = null)
00047
00048
                   if (condition)
00049
                   {
                        throw string.IsNullOrEmptv(message) ? new InvalidOperationException() : new
00050
      InvalidOperationException(message);
00051
                   }
```

```
00052
00053
00059 #if (NET45 || NET46 || PORTABLE)
             [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
     MethodImplOptions.AggressiveInlining)]
00061 #endif
00062
00063
              public static void IfNot(bool condition, string message = null)
00064
00065
                  if (!condition)
00066
                      throw string.IsNullOrEmpty(message) ? new InvalidOperationException() : new
00067
     InvalidOperationException(message);
00068
00069
00070
00071 3
```

7.37 Obsolete/RaiseNotSupportedException.cs File Reference

Classes

class PommaLabs.Thrower.RaiseNotSupportedException

Utility methods which can be used to handle unsupported operations.

Namespaces

namespace PommaLabs.Thrower

7.38 RaiseNotSupportedException.cs

```
00001 // File name: RaiseNotSupportedException.cs
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00004 //
00005 // The MIT License (MIT)
00006 //
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00008 //
00009 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and 00010 // associated documentation files (the "Software"), to deal in the Software without restriction,
00011 // including without limitation the rights to use, copy, modify, merge, publish, distribute, 00012 // sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
00013 // furnished to do so, subject to the following conditions:
00014 //
00015 // The above copyright notice and this permission notice shall be included in all copies or
00016 // substantial portions of the Software
00017 //
00018 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT 00019 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
00020 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00023
00024 using System;
00025
00026 namespace PommaLabs.Thrower
00034
            [Obsolete("Please use Raise.NotSupportedException.If* overloads, this class has been deprecated")]
00035
           public sealed class RaiseNotSupportedException :
      RaiseBase
00036
00042 #if (NET45 || NET46 || PORTABLE)
                [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
      MethodImplOptions.AggressiveInlining)]
00044 #endif
00045
00046
                public static void If(bool condition, string message = null)
00047
00048
                     if (condition)
```

```
00049
                                                                                                     throw string.IsNullOrEmpty(message) ? new NotSupportedException() : new
                         NotSupportedException (message);
00051
00052
                                                               }
00053
00059 #if (NET45 || NET46 || PORTABLE)
                                                                [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
                        MethodImplOptions.AggressiveInlining)]
00061 #endif
00062
00063
                                                                public static void IfNot(bool condition, string message = null)
00064
00065
                                                                                    if (!condition)
00066
                                                                                  {
00067
                                                                                                    throw string.IsNullOrEmpty(message) ? new NotSupportedException() : new
                        NotSupportedException(message);
00068
                                                                            }
00069
00070
00071 }
```

7.39 Obsolete/RaiseObjectDisposedException.cs File Reference

Classes

class PommaLabs.Thrower.RaiseObjectDisposedException

Utility methods which can be used to handle bad object states.

Namespaces

namespace PommaLabs.Thrower

7.40 RaiseObjectDisposedException.cs

```
00001 // File name: RaiseObjectDisposedException.cs
00002 //
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00004 //
00005 // The MIT License (MIT)
00006 //
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00008 //
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00010 // associated documentation files (the "Software"), to deal in the Software without restriction,
00011 // including without limitation the rights to use, copy, modify, merge, publish, distribute,
00012 // sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
00013 \!\!\!// furnished to do so, subject to the following conditions:
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00016 // substantial portions of the Software.
00017 //
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00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00023
00024 using System;
00025
00026 namespace PommaLabs. Thrower
00027 {
00034
           [Obsolete("Please use Raise.ObjectDisposedException.If* overloads, this class has been deprecated")]
           public sealed class RaiseObjectDisposedException :
00036
00043 #if (NET45 || NET46 || PORTABLE)
               [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00044
      MethodImplOptions.AggressiveInlining)]
00045 #endif
```

```
00046
00047
              public static void If(bool disposed, string objectName, string message = null)
00048
00049
                  if (disposed)
00050
                  {
                      throw string.IsNullOrEmpty(message) ? new ObjectDisposedException(objectName) : new
00051
      ObjectDisposedException(objectName, message);
00052
00053
00054
          }
00055 }
```

7.41 RaiseGeneric.cs File Reference

Classes

· class PommaLabs.Thrower.RaiseBase

Stores items shared by various Raise<TEx> instances.

class PommaLabs.Thrower.Raise< TEx >

Contains methods that throw specified exception TEx if given conditions will be verified.

Namespaces

namespace PommaLabs.Thrower

7.42 RaiseGeneric.cs

```
00001 // File name: RaiseGeneric.cs
00002 //
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00004 //
00005 // The MIT License (MIT)
00006 //
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00008 //
00009 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and 00010 // associated documentation files (the "Software"), to deal in the Software without restriction,
00011 // including without limitation the rights to use, copy, modify, merge, publish, distribute,
00012 // sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
00013 // furnished to do so, subject to the following conditions:
00014 //
00015 // The above copyright notice and this permission notice shall be included in all copies or
00016 // substantial portions of the Software.
00017 //
00018 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT 00019 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND 00020 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00023
00024 using PommaLabs.Thrower.Reflection;
00025 using System;
00026 using System.Collections.Generic;
00027 using System.Diagnostics.CodeAnalysis;
00028 using System.Ling;
00029 using System.Reflection;
00030
00031 namespace PommaLabs. Thrower
00032 {
             public abstract class RaiseBase
00036
00037
                  [SuppressMessage("Microsoft.Naming", "CA1704:IdentifiersShouldBeSpelledCorrectly")][SuppressMessage("Microsoft.Security", "CA2105:ArrayFieldsShouldNotBeReadOnly")]
00041
00042
00043
                  protected static readonly Type[] NoCtorTypes = new Type[0];
00044
                  [SuppressMessage("Microsoft.Naming", "CA1704:IdentifiersShouldBeSpelledCorrectly")]
[SuppressMessage("Microsoft.Security", "CA2105:ArrayFieldsShouldNotBeReadOnly")]
00049
00050
00051
                  protected static readonly Type[] StrExCtorTypes = { typeof(string), typeof(Exception) };
```

7.42 RaiseGeneric.cs 217

```
00052
              [SuppressMessage("Microsoft.Naming", "CA1704:IdentifiersShouldBeSpelledCorrectly")][SuppressMessage("Microsoft.Security", "CA2105:ArrayFieldsShouldNotBeReadOnly")]
00057
00058
              protected static readonly Type[] StrCtorType = { typeof(string) };
00059
00060
00061
          public sealed partial class Raise<TEx> : RaiseBase where TEx : Exception
00072
00073 #pragma warning disable RECS0108 // Warns about static fields in generic types
00074
              private static readonly bool ExTypeIsAbstract = PortableTypeInfo.
00079
     IsAbstract(typeof(TEx));
00080
00085
              private static readonly ConstructorInfo NoArgsCtor = GetCtor(NoCtorTypes);
00086
00099
              private static readonly ConstructorInfo MsgCtor = GetCtor(StrExCtorTypes) ?? GetCtor(StrCtorType);
00100
00105
              private static readonly int MsqArqCount = (MsqCtor == null) ? 0 : MsqCtor.GetParameters().Length;
00106
00107 #pragma warning restore RECS0108 // Warns about static fields in generic types
00108
00112
              private Raise()
00113
00114
                  throw new InvalidOperationException("This class should not be instantiated");
00115
00116
00131
              [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
00132
              public static void If (bool cond)
00133
00134
                   if (cond)
00135
                   {
00136
                       DoThrow();
00137
00138
              }
00139
              [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")]
00161
00162
              public static void If (bool cond, string message)
00163
00164
                   if (cond)
00165
                   {
00166
                       DoThrow (message);
00167
                  }
00168
              }
00169
              [SuppressMessage("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")] \\
00184
00185
              public static void IfNot (bool cond)
00186
00187
                   if (!cond)
00188
                   {
00189
                       DoThrow():
00190
                  }
00191
00192
              [SuppressMessage ("Microsoft.Design", "CA1000:DoNotDeclareStaticMembersOnGenericTypes")] \\
00214
00215
              public static void IfNot (bool cond, string message)
00216
              {
00217
                   if (!cond)
00218
                  {
00219
                       DoThrow (message);
00220
                   }
00221
              }
00222
00223
              private static ConstructorInfo GetCtor(System.Collections.Generic.IList<Type> ctorTypes)
00224
00225
                   return (from c in PortableTypeInfo.GetConstructors(typeof(TEx))
00226
                           let args = c.GetParameters()
00227
                           let zipArgs = MyZip(args, ctorTypes, (argType, ctorType) => new { argType, ctorType })
00228
                           where args.Length == ctorTypes.Count &&
                                 (c.IsPublic || c.IsAssembly) &&
00229
00230
                                 zipArgs.All(t => ReferenceEquals(t.argType.ParameterType, t.ctorType))
00231
                           select c).FirstOrDefault();
00232
00233
              private static IEnumerable<TResult> MyZip<TFirst, TSecond, TResult>(IEnumerable<TFirst> first,
00234
      IEnumerable<TSecond> second, Func<TFirst, TSecond, TResult> resultSelector)
00235
              {
00236
                   Raise.ArgumentNullException.IfIsNull(first, nameof(first));
00237
                   Raise.ArgumentNullException.IfIsNull(second, nameof(second));
00238
                  Raise.ArgumentNullException.IfIsNull(resultSelector, nameof(resultSelector));
00239
00240
                  using (IEnumerator<TFirst> e1 = first.GetEnumerator())
00241
                  using (IEnumerator<TSecond> e2 = second.GetEnumerator())
00242
00243
                       while (e1.MoveNext() && e2.MoveNext())
00244
00245 #pragma warning disable CC0031 // Check for null before calling a delegate
00246
                           yield return resultSelector(e1.Current, e2.Current);
```

```
00247 #pragma warning restore CC0031 // Check for null before calling a delegate
00249
                   }
00250
              }
00251
00252
              private static void DoThrow()
00254
                   // Checks whether the proper constructor exists. If not, then we produce an internal exception.
00255
                   if (ExTypeIsAbstract)
00256
                       throw ThrowerException.AbstractEx;
00257
00258
00259
                   if (NoArgsCtor == null)
00260
00261
                       throw ThrowerException.MissingNoArgsCtor;
00262
                   \ensuremath{//}\ \mbox{A} proper constrctor exists: therefore, we can throw the exception.
00263
00264
                  throw (TEx) NoArgsCtor.Invoke(new object[0]);
00265
00266
              private static void DoThrow(string message)
00267
00268
                   // Checks whether the proper constructor exists. If not, then we produce an internal exception.
00269
00270
                   if (ExTypeIsAbstract)
00271
                   {
00272
                       throw ThrowerException.AbstractEx;
00273
00274
                   if (MsgCtor == null)
00275
00276
                       throw ExTypeIsAbstract ? ThrowerException.AbstractEx :
     ThrowerException.MissingMsgCtor;
00277
00278
                  ^{\prime}// A proper constrctor exists: therefore, we can throw the exception.
                  var messageArgs = new object[MsgArgCount];
messageArgs[0] = message;
00279
00280
00281
                  throw (TEx) MsgCtor.Invoke(messageArgs);
00282
              }
         }
00283
00284 }
```

7.43 Reflection/FastMember/CallSiteCache.cs File Reference

Classes

class PommaLabs.Thrower.Reflection.FastMember.CallSiteCache

Namespaces

namespace PommaLabs.Thrower.Reflection.FastMember

7.44 CallSiteCache.cs

```
00001 // Copyright 2013 Marc Gravell
00002 //
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00004 // in compliance with the License. You may obtain a copy of the License at:
00005 //
00006 // "http://www.apache.org/licenses/LICENSE-2.0"
00007 //
00008 // Unless required by applicable law or agreed to in writing, software distributed under the License
00009 // is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
00010 // or implied. See the License for the specific language governing permissions and limitations under
00011 // the License.
00012
00013 #if !NET35 && !PORTABLE
00014
00015 using Microsoft.CSharp.RuntimeBinder;
00016 using System;
00017 using System.Collections;
00018 using System.Runtime.CompilerServices;
```

```
00019
00020 namespace PommaLabs.Thrower.Reflection.FastMember
00021 {
00022
          internal static class CallSiteCache
00023
00024
              private static readonly Hashtable Getters = new Hashtable(), Setters = new Hashtable();
00026
              internal static object GetValue(string name, object target)
00027
00028
                  var callSite = (CallSite<Func<CallSite, object, object>>) Getters[name];
                  if (callSite == null)
00029
00030
00031
                      var newSite = CallSite<Func<CallSite, object, object>>.Create(Binder.GetMember(
      CSharpBinderFlags.None, name, typeof(CallSiteCache), new CSharpArgumentInfo[] { CSharpArgumentInfo.Create(
      CSharpArgumentInfoFlags.None, null) }));
00032
                      lock (Getters)
00033
00034
                          callSite = (CallSite<Func<CallSite, object, object>>) Getters[name];
00035
                          if (callSite == null)
00036
00037
                              Getters[name] = callSite = newSite;
00038
00039
                      }
00040
00041
                  return callSite.Target(callSite, target);
00042
00043
00044
              internal static void SetValue(string name, object target, object value)
00045
                  var callSite = (CallSite<Func<CallSite, object, object, object>>) Setters[name];
00046
00047
                  if (callSite == null)
00048
                  {
00049
                      var newSite = CallSite<Func<CallSite, object, object, object>>.Create(Binder.SetMember(
      CSharpBinderFlags.None, name, typeof(CallSiteCache), new CSharpArgumentInfo[] { CSharpArgumentInfo.Create(
      CSharpArgumentInfoFlags.None, null), CSharpArgumentInfo.Create(CSharpArgumentInfoFlags.UseCompileTimeType, null) }
00050
                      lock (Setters)
00051
00052
                          callSite = (CallSite<Func<CallSite, object, object, object>>) Setters[name];
00053
                          if (callSite == null)
00054
00055
                              Setters[name] = callSite = newSite;
00056
00057
00058
00059
                  callSite.Target(callSite, target, value);
00060
00061
00062 }
00063
00064 #endif
```

7.45 Reflection/FastMember/MemberSet.cs File Reference

Classes

• class PommaLabs.Thrower.Reflection.FastMember.MemberSet

Represents an abstracted view of the members defined for a type.

class PommaLabs.Thrower.Reflection.FastMember.Member

Represents an abstracted view of an individual member defined for a type.

Namespaces

· namespace PommaLabs.Thrower.Reflection.FastMember

7.46 MemberSet.cs

```
00001 // Copyright 2013 Marc Gravell
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00004 \!\!\!// in compliance with the License. You may obtain a copy of the License at:
00005 //
00006 // "http://www.apache.org/licenses/LICENSE-2.0"
00007 //
00008 // Unless required by applicable law or agreed to in writing, software distributed under the License 00009 // is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
00010 // or implied. See the License for the specific language governing permissions and limitations under
00011 // the License.
00012
00013 #if !PORTABLE
00014
00015 using System;
00016 using System.Collections.Generic;
00017 using System.Ling;
00018 using System.Reflection;
00019
00020 namespace PommaLabs.Thrower.Reflection.FastMember
00021 {
00025
          public sealed class MemberSet : IEnumerable<Member>, IList<Member>
00026
00027
               private Member[] members;
00028
00029
               internal MemberSet(Type type)
00030
00031
                   members = type
00032
                       .GetProperties()
00033
                       .Cast<MemberInfo>()
                        .Concat (type.GetFields().Cast<MemberInfo>()).OrderBy(x \Rightarrow x.Name, StringComparer.
00034
      InvariantCulture)
00035
                       .Select (member => new Member (member))
00036
                        .ToArray();
00037
00038
               public IEnumerator<Member> GetEnumerator()
00042
00043
00044
                   foreach (var member in members) yield return member;
00045
00046
00050
               public Member this[int index] => members[index];
00051
00055
               public int Count => members.Length;
00056
00057
               Member IList<Member>.this[int index]
00058
00059
                   get { return members[index]; }
00060
                   set { throw new NotSupportedException(); }
00061
00062
               System.Collections.IEnumerator System.Collections.IEnumerable.GetEnumerator() =>
00063
      GetEnumerator();
00064
00065
               bool ICollection < Member > . Remove (Member item)
00066
00067
                   throw new NotSupportedException();
00068
               }
00069
00070
               void ICollection < Member > . Add (Member item)
00071
00072
                   throw new NotSupportedException();
00073
00074
00075
               void ICollection<Member>.Clear()
00076
00077
                   throw new NotSupportedException();
00078
               }
00079
08000
               void IList<Member>.RemoveAt(int index)
00081
               {
00082
                   throw new NotSupportedException();
00083
00084
00085
               void IList<Member>.Insert(int index, Member item)
00086
00087
                   throw new NotSupportedException();
00088
00089
00090
               bool ICollection<Member>.Contains(Member item) => members.Contains(item);
00091
00092
               void ICollection<Member>.CopyTo(Member[] array, int arrayIndex)
00093
00094
                   members.CopyTo(array, arrayIndex);
```

```
00095
              }
00096
00097
              bool ICollection<Member>.IsReadOnly => true;
00098
00099
              int IList<Member>.IndexOf(Member member) => Array.IndexOf<Member>(members, member);
00100
         }
00101
00105
          public sealed class Member
00106
00107
              private readonly MemberInfo member;
00108
00109
              internal Member (MemberInfo member)
00110
00111
                  this.member = member;
00112
00113
00117
              public string Name => member.Name;
00118
00122
              public Type Type
00123
00124
                  get
00125
00126
                      switch (member.MemberType)
00127
00128
                          case MemberTypes.Field: return ((FieldInfo) member).FieldType;
00129
                          case MemberTypes.Property: return ((PropertyInfo) member).PropertyType;
00130
                          default: throw new NotSupportedException(member.MemberType.ToString());
00131
00132
                  }
00133
             }
00134
00139
              public bool IsDefined(Type attributeType)
00140
00141
                  if (attributeType == null) throw new ArgumentNullException(nameof(attributeType));
00142
                  return Attribute.IsDefined(member, attributeType);
00143
00144
         }
00145 }
00146
00147 #endif
```

7.47 Reflection/FastMember/ObjectAccessor.cs File Reference

Classes

• class PommaLabs.Thrower.Reflection.FastMember.ObjectAccessor

Represents an individual object, allowing access to members by-name.

Namespaces

· namespace PommaLabs.Thrower.Reflection.FastMember

7.48 ObjectAccessor.cs

```
00001 // Copyright 2013 Marc Gravell
00002 //
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00004 // in compliance with the License. You may obtain a copy of the License at:
00005 //
00006 // "http://www.apache.org/licenses/LICENSE-2.0"
00007 //
00008 // Unless required by applicable law or agreed to in writing, software distributed under the License
00009 // is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
00010 // or implied. See the License for the specific language governing permissions and limitations under
00011 // the License.
00012
00013 #if !PORTABLE
00014
00015 using System;
00016 using System;
```

```
00017 using System.Collections.Generic;
00018 using System.Ling;
00019
00020 #if !NET35
00021 using System.Dynamic;
00022 #endif
00024 namespace PommaLabs.Thrower.Reflection.FastMember
00025 {
00029
          public abstract class ObjectAccessor : IDictionary<string, object>
00030
              public abstract object this[string name] { get; set; }
00034
00035
00039
              public abstract object Target { get; }
00040
00045
              public override bool Equals(object obj) => Target.Equals(obj);
00046
00050
              public override int GetHashCode() => Target.GetHashCode();
00051
00055
              public override string ToString() => Target.ToString();
00056
00061
              public static ObjectAccessor Create(object target) => Create(target, false);
00062
              public static ObjectAccessor Create (object target, bool allowNonPublicAccessors
00068
00069
              {
00070
                  if (target == null) throw new ArgumentNullException(nameof(target));
00071 #if !NET35
00072
                  var dlr = target as IDynamicMetaObjectProvider;
                  if (dlr != null) return new DynamicWrapper(dlr); // use the DLR
00073
00074 #endif
00075
                  return new TypeAccessorWrapper(target, TypeAccessor.
      Create(target.GetType(), allowNonPublicAccessors));
00076
00077
00078
              #region IDictionary<string, object> members
00079
              public abstract ICollection<string> Keys { get; }
00089
00098
              public abstract ICollection<object> Values { get; }
00099
00104
              public abstract int Count { get; }
00105
              public bool IsReadOnly => true;
00114
00115
00126
              public abstract bool ContainsKey(string key);
00127
              public void Add(string key, object value)
00140
00141
00142
                  throw new NotSupportedException();
00143
00144
00157
              public bool Remove(string key)
00158
00159
                  throw new NotSupportedException();
00160
00161
00177
              public abstract bool TryGetValue(string key, out object value);
00178
00186
              public void Add(KeyValuePair<string, object> item)
00187
00188
                  throw new NotSupportedException();
00189
              }
00190
00197
              public void Clear()
00198
00199
                  throw new NotSupportedException();
00200
00201
00211
              public abstract bool Contains(KeyValuePair<string, object> item);
00212
00236
              public void CopyTo(KeyValuePair<string, object>[] array, int arrayIndex)
00237
00238
                  foreach (var kv in this)
00239
                  {
00240
                      array[arrayIndex++] = kv;
00241
00242
              }
00243
              public bool Remove(KeyValuePair<string, object> item)
00256
00257
00258
                  throw new NotSupportedException();
00259
00260
00266
              public abstract IEnumerator<KeyValuePair<string, object>> GetEnumerator();
00267
00276
              IEnumerator IEnumerable.GetEnumerator() => GetEnumerator();
```

```
00277
00278
              #endregion IDictionary<string, object> members
00279
00280
              00281
              {
00282
                  private readonly TypeAccessor _accessor;
00283
                  private readonly MemberSet _members;
00284
00285
                  public TypeAccessorWrapper(object target, TypeAccessor accessor)
00286
00287
                      Target = target:
00288
                      _accessor = accessor;
00289
                      _members = accessor.GetMembers();
00290
                  }
00291
00292
                  public override object this[string name]
00293
00294
                      get { return _accessor[Target, name]; }
00295
                      set { _accessor[Target, name] = value; }
00296
00297
00298
                  public override object Target { get; }
00299
00300
                  #region IDictionary<string, object> members
00301
00302
                  public override ICollection<string> Keys => _members.Select(x => x.Name).ToArray();
00303
00304
                  public override ICollection<object> Values => _members.Select(x => _accessor[Target, x.Name]).
     ToArrav();
00305
00306
                  public override int Count => _members.Count;
00307
00308
                  public override bool ContainsKey(string key) => _{\text{members.Any}}(x => x.\text{Name} == \text{key});
00309
00310
                  public override bool TryGetValue(string key, out object value)
00311
00312
                      if (ContainsKey(key))
00313
00314
                          value = _accessor[Target, key];
00315
                          return true;
00316
00317
                      value = null:
00318
                      return false;
00319
00320
00321
                  public override bool Contains(KeyValuePair<string, object> item) => _members.Any(x => x.Name ==
       item.Key && _accessor[Target, item.Key] == item.Value);
00322
00323
                  public override IEnumerator<KevValuePair<string, object>> GetEnumerator()
00324
00325
                      foreach (var m in _members)
00326
00327
                          yield return new KeyValuePair<string, object>(m.Name, _accessor[Target, m.Name]);
00328
00329
                  }
00330
00331
                  #endregion IDictionary<string, object> members
00332
00333
00334 #if !NET35
00335
              sealed class DynamicWrapper : ObjectAccessor
00336
00337
                  public DynamicWrapper(IDynamicMetaObjectProvider target)
00338
00339
                      Target = target;
00340
                  }
00341
00342
                  public override object this[string name]
00343
00344
                      get { return CallSiteCache.GetValue(name, Target); }
00345
                      set { CallSiteCache.SetValue(name, Target, value); }
00346
00347
00348
                  public override object Target { get; }
00349
00350
              #region IDictionary<string, object> members
00351
00352
                  public override ICollection<string> Keys
00353
00354
                      get { throw new NotSupportedException(); }
00355
                  }
00356
00357
                  public override ICollection<object> Values
00358
00359
                      get { throw new NotSupportedException(); }
00360
                  }
```

```
00362
                  public override int Count
00363
00364
                      get { throw new NotSupportedException(); }
00365
00366
00367
                  public override bool ContainsKey(string key)
00368
00369
                      throw new NotSupportedException();
00370
00371
                  public override bool TryGetValue(string key, out object value)
00372
00373
00374
                      throw new NotSupportedException();
00375
00376
                  public override bool Contains(KeyValuePair<string, object> item)
00377
00378
00379
                      throw new NotSupportedException();
00380
00381
00382
                  public override IEnumerator<KeyValuePair<string, object>> GetEnumerator()
00383
00384
                      throw new NotSupportedException();
00385
00386
00387
              #endregion IDictionary<string, object> members
00388
00389 #endif
00390
00391 }
00392
00393 #endif
```

7.49 Reflection/FastMember/ObjectReader.cs File Reference

Classes

class PommaLabs.Thrower.Reflection.FastMember.ObjectReader

Provides a means of reading a sequence of objects as a data-reader, for example for use with SqlBulkCopy or other data-base oriented code

Namespaces

namespace PommaLabs.Thrower.Reflection.FastMember

7.50 ObjectReader.cs

```
00001 // Copyright 2013 Marc Gravell
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00004 \!\!\!// in compliance with the License. You may obtain a copy of the License at:
00005 //
00006 // "http://www.apache.org/licenses/LICENSE-2.0"
00007 //
00008 // Unless required by applicable law or agreed to in writing, software distributed under the License 00009 // is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
00010 // or implied. See the License for the specific language governing permissions and limitations under
00011 // the License.
00012
00013 #if !PORTABLE
00015 using System;
00016 using System.Collections;
00017 using System.Collections.Generic;
00018 using System.Data;
00019
00020 namespace PommaLabs.Thrower.Reflection.FastMember
00021 {
```

7.50 ObjectReader.cs 225

```
internal class ObjectReader : IDataReader
00027
00028
              private IEnumerator source;
00029
               private readonly TypeAccessor accessor;
              private readonly string[] memberNames;
private readonly Type[] effectiveTypes;
00030
00031
              private readonly BitArray allowNull;
00032
00033
              public static ObjectReader Create<T>(IEnumerable<T> source, params string[] members)
00039
00040
00041
                   return new ObjectReader(typeof(T), source, members);
00042
00043
00050
              public ObjectReader(Type type, IEnumerable source, params string[] members)
00051
00052
                   if (source == null) throw new ArgumentOutOfRangeException(nameof(source));
00053
00054
                  var allMembers = members == null || members.Length == 0;
00055
00056
                   this.accessor = TypeAccessor.Create(type);
00057
                   if (accessor.GetMembersSupported)
00058
00059
                       var typeMembers = this.accessor.GetMembers();
00060
00061
                       if (allMembers)
00062
                           members = new string[typeMembers.Count];
00063
00064
                           for (int i = 0; i < members.Length; i++)</pre>
00065
00066
                               members[i] = typeMembers[i].Name;
00067
00068
                       }
00069
00070
                       this.allowNull = new BitArray(members.Length);
00071
                       this.effectiveTypes = new Type[members.Length];
00072
                       for (int i = 0; i < members.Length; i++)</pre>
00073
00074
                           Type memberType = null;
00075
                           var allowNull = true;
00076
                           var hunt = members[i];
00077
                           foreach (var member in typeMembers)
00078
00079
                               if (member.Name == hunt)
00080
00081
                                    if (memberType == null)
00082
00083
                                        var tmp = member.Type;
00084
                                        memberType = Nullable.GetUnderlyingType(tmp) ?? tmp;
00085
00086
                                        allowNull = !(memberType.IsValueType && memberType == tmp);
00087
00088
                                        // but keep checking, in case of duplicates
00089
00090
                                   else
00091
00092
                                        memberType = null; // duplicate found; say nothing
00093
00094
00095
00096
00097
                           this.allowNull[i] = allowNull;
00098
                           this.effectiveTypes[i] = memberType ?? typeof(object);
00099
                       }
00100
00101
                   else if (allMembers)
00102
00103
                       throw new InvalidOperationException("Member information is not available for this type; the
       required members must be specified explicitly");
00104
                  }
00105
00106
                   this.current = null;
00107
                  this.memberNames = (string[]) members.Clone();
00108
00109
                   this.source = source.GetEnumerator();
00110
              }
00111
00112
              private object current;
00113
00114
              void IDataReader.Close()
00115
00116
                   Dispose();
00117
              }
00118
00119
              int IDataReader.Depth
00120
              {
00121
                   get { return 0; }
00122
              }
```

```
00124
               DataTable IDataReader.GetSchemaTable()
00125
00126
                   \ensuremath{//} these are the columns used by <code>DataTable load</code>
00127
                   var table = new DataTable
00128
00129
                        Columns =
00130
00131
                            {"ColumnOrdinal", typeof(int)},
00132
                            {"ColumnName", typeof(string)},
                            {"DataType", typeof(Type)},
{"ColumnSize", typeof(int)},
{"AllowDBNull", typeof(bool)}
00133
00134
00135
00136
00137
                   };
                   var rowData = new object[5];
for (int i = 0; i < memberNames.Length; i++)</pre>
00138
00139
00140
00141
                        rowData[0] = i;
00142
                        rowData[1] = memberNames[i];
00143
                        rowData[2] = effectiveTypes == null ? typeof(object) : effectiveTypes[i];
00144
                        rowData[3] = -1;
                        rowData[4] = allowNull == null ? true : allowNull[i];
00145
00146
                       table.Rows.Add(rowData);
00147
                   return table;
00149
               }
00150
00151
               bool IDataReader.IsClosed
00152
00153
                   get { return source == null; }
00154
               }
00155
00156
               bool IDataReader.NextResult()
00157
               {
00158
                   return false:
00159
               }
00160
00161
               bool IDataReader.Read()
00162
00163
                   var tmp = source;
                   if (tmp != null && tmp.MoveNext())
00164
00165
00166
                       current = tmp.Current;
00167
                      return true;
00168
00169
                   current = null;
00170
                   return false;
00171
               }
00172
00173
               int IDataReader.RecordsAffected
00174
               {
00175
                   get { return 0; }
00176
00177
00181
               public void Dispose()
00183
00184
                   var tmp = source as IDisposable;
                   source = null;
00185
                   if (tmp != null) tmp.Dispose();
00186
00187
00188
00189
               int IDataRecord.FieldCount
00190
00191
                   get { return memberNames.Length; }
00192
00193
00194
               bool IDataRecord.GetBoolean(int i)
00195
00196
                   return (bool) this[i];
00197
00198
00199
               byte IDataRecord.GetByte(int i)
00200
               {
00201
                   return (byte) this[i];
00202
00203
00204
               long IDataRecord.GetBytes(int i, long fieldOffset, byte[] buffer, int bufferoffset, int length)
00205
                   var s = (byte[]) this[i];
00206
00207
                   var available = s.Length - (int) fieldOffset;
00208
                   if (available <= 0) return 0;</pre>
00209
00210
                   var count = Math.Min(length, available);
                   Buffer.BlockCopy(s, (int) fieldOffset, buffer, bufferoffset, count);
00211
00212
                   return count:
```

7.50 ObjectReader.cs 227

```
00213
              }
00214
00215
              char IDataRecord.GetChar(int i)
00216
00217
                  return (char) this[i];
00218
              }
00219
00220
              long IDataRecord.GetChars(int i, long fieldoffset, char[] buffer, int bufferoffset, int length)
00221
00222
                  var s = (string) this[i];
                  var available = s.Length - (int) fieldoffset;
if (available <= 0) return 0;</pre>
00223
00224
00225
00226
                  var count = Math.Min(length, available);
00227
                  s.CopyTo((int) fieldoffset, buffer, bufferoffset, count);
00228
                  return count;
00229
              }
00230
00231
              IDataReader IDataRecord.GetData(int i)
00232
              {
00233
                  throw new NotSupportedException();
00234
              }
00235
00236
              string IDataRecord.GetDataTypeName(int i)
00237
00238
                   return (effectiveTypes == null ? typeof(object) : effectiveTypes[i]).Name;
00239
00240
00241
              DateTime IDataRecord.GetDateTime(int i)
00242
00243
                  return (DateTime) this[i];
00244
              }
00245
00246
              decimal IDataRecord.GetDecimal(int i)
00247
00248
                  return (decimal) this[i];
00249
00250
00251
              double IDataRecord.GetDouble(int i)
00252
00253
                  return (double) this[i];
00254
              }
00255
00256
              Type IDataRecord.GetFieldType(int i)
00257
00258
                   return effectiveTypes == null ? typeof(object) : effectiveTypes[i];
00259
00260
00261
              float IDataRecord.GetFloat(int i)
00262
00263
                  return (float) this[i];
00264
00265
00266
              Guid IDataRecord.GetGuid(int i)
00267
00268
                  return (Guid) this[i];
00269
00270
00271
              short IDataRecord.GetInt16(int i)
00272
00273
                  return (short) this[i];
00274
              }
00275
00276
              int IDataRecord.GetInt32(int i)
00277
00278
                  return (int) this[i];
00279
              }
00280
00281
              long IDataRecord.GetInt64(int i)
00282
00283
                   return (long) this[i];
00284
00285
00286
              string IDataRecord.GetName(int i)
00287
              {
00288
                  return memberNames[i];
00289
              }
00290
00291
              int IDataRecord.GetOrdinal(string name)
00292
              {
00293
                  return Array.IndexOf(memberNames, name);
00294
              }
00295
00296
              string IDataRecord.GetString(int i)
00297
00298
                  return (string) this[i];
00299
              }
```

```
object IDataRecord.GetValue(int i)
00302
00303
                   return this[i];
00304
00305
00306
              int IDataRecord.GetValues(object[] values)
00307
00308
                   // duplicate the key fields on the stack
                  var members = this.memberNames;
var current = this.current;
00309
00310
00311
                  var accessor = this.accessor:
00312
00313
                  var count = Math.Min(values.Length, members.Length);
00314
                   for (int i = 0; i < count; i++) values[i] = accessor[current, members[i]] ?? DBNull.Value;</pre>
00315
                   return count;
              }
00316
00317
00318
              bool IDataRecord.IsDBNull(int i)
00319
00320
                   return this[i] is DBNull;
00321
00322
00323
              object IDataRecord.this[string name]
00324
00325
                   get { return accessor[current, name] ?? DBNull.Value; }
00326
00327
00331
              public object this[int i]
00332
00333
                   get { return accessor[current, memberNames[i]] ?? DBNull.Value; }
00334
00335
00336 }
00337
00338 #endif
```

7.51 Reflection/FastMember/TypeAccessor.cs File Reference

Classes

- · class PommaLabs.Thrower.Reflection.FastMember.TypeAccessor
 - Provides by-name member-access to objects of a given type.
- class PommaLabs.Thrower.Reflection.FastMember.TypeAccessor.RuntimeTypeAccessor

A TypeAccessor based on a Type implementation, with available member metadata

Namespaces

· namespace PommaLabs.Thrower.Reflection.FastMember

7.52 TypeAccessor.cs

```
00001 // Copyright 2013 Marc Gravell
00002 //
00003 // Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
00004 // in compliance with the License. You may obtain a copy of the License at:
00005 //
00006 // "http://www.apache.org/licenses/LICENSE-2.0"
00007 //
00008 // Unless required by applicable law or agreed to in writing, software distributed under the License
00009 // is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
00010 // or implied. See the License for the specific language governing permissions and limitations under
00011 // the License.
00012
00013 #if !PORTABLE
00014
00015 using System;
00016 using System;
```

7.52 TypeAccessor.cs 229

```
00017 using System.Collections.Generic;
00018 using System.Reflection;
00019 using System.Reflection.Emit;
00020 using System. Threading;
00021
00022 #if !NET35
00023 using System.Dynamic;
00024 #endif
00025
00026 namespace PommaLabs.Thrower.Reflection.FastMember
00027 {
00031
          public abstract class TypeAccessor
00032
              // hash-table has better read-without-locking semantics than dictionary
00033
00034
              private static readonly Hashtable publicAccessorsOnly = new Hashtable(), nonPublicAccessors = new
     Hashtable();
00035
00039
              public virtual bool CreateNewSupported => false;
00040
00044
              public virtual object CreateNew() { throw new NotSupportedException(); }
00045
00049
              public virtual bool GetMembersSupported => false;
00050
              public virtual MemberSet GetMembers() { throw new NotSupportedException(); }
00054
00055
00061
              public static TypeAccessor Create(Type type) => Create(type, false);
00062
00067
              public static TypeAccessor Create<T>() => Create(typeof(T), false);
00068
00075
              public static TypeAccessor Create(Type type, bool allowNonPublicAccessors)
00076
00077
                  if (type == null) throw new ArgumentNullException(nameof(type));
00078
                  var lookup = allowNonPublicAccessors ? nonPublicAccessors : publicAccessorsOnly;
                  var obj = (TypeAccessor) lookup[type];
00079
                  if (obj != null) return obj;
00080
00081
00082
                  lock (lookup)
00083
00084
                       // double-check
00085
                      obj = (TypeAccessor) lookup[type];
00086
                      if (obj != null) return obj;
00087
00088
                      obj = CreateNew(type, allowNonPublicAccessors);
00089
00090
                      lookup[type] = obj;
00091
00092
                  }
00093
              }
00094
              public static TypeAccessor Create<T>(bool allowNonPublicAccessors) => Create(typeof(T),
00100
       allowNonPublicAccessors);
00101
00102 #if !NET35
00103
              sealed class DynamicAccessor : TypeAccessor
00104
              {
00105
                  public static readonly DynamicAccessor Singleton = new DynamicAccessor();
                  private DynamicAccessor() { }
00107
                  public override object this[object target, string name]
00108
00109
                      get { return CallSiteCache.GetValue(name, target); }
00110
                      set { CallSiteCache.SetValue(name, target, value); }
00111
                  }
00112
              }
00113 #endif
00114
00115
              private static AssemblyBuilder assembly;
00116
              private static ModuleBuilder module;
00117
              private static int counter;
00118
00119
              private static readonly MethodInfo tryGetValue = typeof(Dictionary<string, int>).GetMethod("
     TryGetValue");
00120
00121
              private static void WriteMapImpl(ILGenerator il, Type type, List<MemberInfo> members, FieldBuilder
     mapField, bool allowNonPublicAccessors, bool isGet)
00122
00123
                  OpCode obj, index, value;
00124
00125
                  var fail = il.DefineLabel();
00126
                  if (mapField == null)
00127
                  {
00128
                      index = OpCodes.Ldarg_0;
00129
                      obj = OpCodes.Ldarg_1;
00130
                      value = OpCodes.Ldarg_2;
00131
                  }
00132
                  else
00133
                  {
00134
                      il.DeclareLocal(typeof(int));
```

```
index = OpCodes.Ldloc_0;
00136
                       obj = OpCodes.Ldarg_1;
00137
                       value = OpCodes.Ldarg_3;
00138
                       il.Emit(OpCodes.Ldarg_0);
00139
00140
                       il.Emit (OpCodes.Ldfld, mapField);
                       il.Emit(OpCodes.Ldarg_2);
00141
00142
                       il.Emit(OpCodes.Ldloca_S, (byte) 0);
00143
                       il.EmitCall(OpCodes.Callvirt, tryGetValue, null);
00144
                       il.Emit(OpCodes.Brfalse, fail);
00145
                  var labels = new Label[members.Count];
00146
                   for (int i = 0; i < labels.Length; i++)</pre>
00147
00148
00149
                       labels[i] = il.DefineLabel();
00150
                  il.Emit(index);
00151
                  il.Emit (OpCodes.Switch, labels);
00152
00153
                   il.MarkLabel(fail);
00154
                   il.Emit(OpCodes.Ldstr, "name");
00155
                  il.Emit(OpCodes.Newobj, typeof(ArgumentOutOfRangeException).GetConstructor(new Type[] { typeof(
     string) }));
00156
                   il.Emit(OpCodes.Throw);
                   for (int i = 0; i < labels.Length; i++)</pre>
00157
00158
00159
                       il.MarkLabel(labels[i]);
                       var member = members[i];
var isFail = true;
00160
00161
00162
                       switch (member.MemberType)
00163
00164
                           case MemberTypes.Field:
00165
                               var field = (FieldInfo) member;
00166
                                il.Emit(obj);
00167
                               Cast(il, type, true);
00168
                               if (isGet)
00169
                                    il.Emit(OpCodes.Ldfld, field);
00170
00171
                                    if (field.FieldType.IsValueType) il.Emit(OpCodes.Box, field.FieldType);
00172
00173
                               else
00174
00175
                                    il.Emit(value):
                                    Cast(il, field.FieldType, false);
00176
                                    il.Emit(OpCodes.Stfld, field);
00177
00178
00179
                               il.Emit(OpCodes.Ret);
00180
                               isFail = false;
00181
                               break;
00182
00183
                           case MemberTypes.Property:
                               var prop = (PropertyInfo) member;
MethodInfo accessor;
00184
00185
00186
                                if (prop.CanRead && (accessor = isGet ? prop.GetGetMethod(allowNonPublicAccessors)
      : prop.GetSetMethod(allowNonPublicAccessors)) != null)
00187
00188
                                    il.Emit(obj);
                                    Cast(il, type, true);
00190
                                    if (isGet)
00191
00192
                                        il.EmitCall(type.IsValueType ? OpCodes.Call : OpCodes.Callvirt, accessor,
      null);
00193
                                        if (prop.PropertyType.IsValueType) il.Emit(OpCodes.Box, prop.PropertyType);
00194
00195
                                    else
00196
00197
                                        il.Emit(value);
00198
                                        Cast(il, prop.PropertyType, false);
00199
                                        il.EmitCall(type.IsValueType ? OpCodes.Call : OpCodes.Callvirt, accessor,
     null);
00200
00201
                                    il.Emit(OpCodes.Ret);
00202
                                    isFail = false;
00203
00204
                               break:
00205
00206
                       if (isFail) il.Emit(OpCodes.Br, fail);
00207
                   }
00208
00209
              private static readonly MethodInfo stringEquals = typeof(string).GetMethod("op Equality", new Type(
00210
      ] { typeof(string), typeof(string) });
00211
              protected abstract class RuntimeTypeAccessor :
      TypeAccessor
00216
             {
                  protected abstract Type Type { get; }
00221
```

7.52 TypeAccessor.cs 231

```
public override bool GetMembersSupported => true;
00226
00227
                  private MemberSet members;
00228
00232
                  public override MemberSet GetMembers() => members ?? (members = new
      MemberSet (Type));
00233
              }
00234
00235
              private sealed class DelegateAccessor : RuntimeTypeAccessor
00236
00237
                   private readonly Dictionary<string, int> map;
                   private readonly Func<int, object, object> getter;
00238
                   private readonly Action<int, object, object> setter;
00239
00240
                   private readonly Func<object> ctor;
00241
                   private readonly Type type;
00242
                  protected override Type Type => type;
00243
     public DelegateAccessor(Dictionary<string, int> map, Func<int, object, object> getter,
Action<int, object, object> setter, Func<object> ctor, Type type)
00244
00245
                  {
00246
                       this.map = map;
                       this.getter = getter;
this.setter = setter;
00247
00248
00249
                       this.ctor = ctor:
00250
                       this.type = type;
00251
                   }
00252
00253
                   public override bool CreateNewSupported => ctor != null;
00254
00255
                   public override object CreateNew() => ctor != null ? ctor() : base.CreateNew();
00256
00257
                   public override object this[object target, string name]
00258
00259
                       get
00260
00261
                           int index:
00262
                           if (map.TryGetValue(name, out index)) return getter(index, target);
                           else throw new ArgumentOutOfRangeException(nameof(name));
00263
00264
00265
                       set
00266
00267
                           int index;
                           if (map.TryGetValue(name, out index)) setter(index, target, value);
00268
00269
                           else throw new ArgumentOutOfRangeException(nameof(name));
00270
00271
                   }
00272
              }
00273
00274
              private static bool IsFullyPublic(Type type, PropertyInfo[] props, bool allowNonPublicAccessors)
00275
00276
                   while (type.IsNestedPublic) type = type.DeclaringType;
00277
                   if (!type.IsPublic) return false;
00278
00279
                   if (allowNonPublicAccessors)
00280
00281
                       for (int i = 0; i < props.Length; i++)</pre>
00282
                           if (props[i].GetGetMethod(true) != null && props[i].GetGetMethod(false) == null) return
00283
       false; // non-public getter
00284
                           if (props[i].GetSetMethod(true) != null && props[i].GetSetMethod(false) == null) return
       false; // non-public setter
00285
00286
                  }
00287
00288
                  return true;
00289
              }
00290
00291
              private static TypeAccessor CreateNew(Type type, bool allowNonPublicAccessors)
00292
00293 #if !NET35
00294
                   if (typeof(IDynamicMetaObjectProvider).IsAssignableFrom(type))
00295
00296
                       return DynamicAccessor.Singleton;
00297
                   }
00298 #endif
00299
00300
                   var props = type.GetProperties(BindingFlags.Public | BindingFlags.Instance);
00301
                   var fields = type.GetFields(BindingFlags.Public | BindingFlags.Instance);
00302
                   var map = new Dictionary<string, int>(StringComparer.Ordinal);
                   var members = new List<MemberInfo>(props.Length + fields.Length);
00303
00304
                   var i = 0;
00305
                   foreach (var prop in props)
00306
00307
                       if (!map.ContainsKey(prop.Name) && prop.GetIndexParameters().Length == 0)
00308
00309
                           map.Add(prop.Name, i++);
00310
                           members.Add(prop);
```

```
00311
                                  }
00312
00313
                            foreach (var field in fields) if (!map.ContainsKey(field.Name)) { map.Add(field.Name, i++);
         members.Add(field); }
00314
00315
                            ConstructorInfo ctor = null:
00316
                            if (type.IsClass && !type.IsAbstract)
00317
00318
                                   ctor = type.GetConstructor(Type.EmptyTypes);
00319
00320
                            ILGenerator il:
00321
                            if (!IsFullyPublic(type, props, allowNonPublicAccessors))
00322
                                   var dynGetter = new DynamicMethod(type.FullName + "_get", typeof(object), new Type[] {
         typeof(int), typeof(object) }, type, true);
         var dynSetter = new DynamicMethod(type.FullName + "_set", null, new Type[] { typeof(int), typeof(object) }, type, true);
00324
00325
                                   WriteMapImpl(dynGetter.GetILGenerator(), type, members, null, allowNonPublicAccessors, true
         );
00326
                                   WriteMapImpl(dynSetter.GetILGenerator(), type, members, null, allowNonPublicAccessors,
00327
                                   DynamicMethod dynCtor = null;
00328
                                   if (ctor != null)
00329
                                         dynCtor = new DynamicMethod(type.FullName + "_ctor", typeof(object), Type.EmptyTypes,
00330
         type, true);
00331
                                         il = dynCtor.GetILGenerator();
00332
                                         il.Emit(OpCodes.Newobj, ctor);
00333
                                         il.Emit(OpCodes.Ret);
00334
00335
                                   return new DelegateAccessor(
00336
                                         map,
00337
                                         (Func<int, object, object>) dynGetter.CreateDelegate(typeof(Func<int, object, object>))
00338
                                          (Action<int, object, object>) dynSetter.CreateDelegate(typeof(Action<int, object,
           object>)),
00339
                                         dynCtor == null ? null : (Func<object>) dynCtor.CreateDelegate(typeof(Func<object>)),
         type);
00340
                            }
00341
00342
                             // note this region is synchronized; only one is being created at a time so we don't need
00343
                            // to stress about the builders
                            if (assembly == null)
00344
00345
00346
                                   var name = new AssemblyName("FastMember_dynamic");
00347
                                   assembly = AppDomain.CurrentDomain.DefineDynamicAssembly(name, AssemblyBuilderAccess.Run);
00348
                                   module = assembly.DefineDynamicModule(name.Name);
00349
                            var tb = module.DefineType("FastMember_dynamic." + type.Name + "_" + Interlocked.Increment(ref
00350
         counter).
00351
                                   (typeof(TypeAccessor).Attributes | TypeAttributes.Sealed | TypeAttributes.
         Public) & ~(TypeAttributes.Abstract | TypeAttributes.NotPublic), typeof(
         RuntimeTypeAccessor));
00352
                            il = tb.DefineConstructor(MethodAttributes.Public, CallingConventions.Standard, new[] {
00353
00354
                                  typeof(Dictionary<string,int>)
00355
                             }).GetILGenerator();
00356
                             il.Emit(OpCodes.Ldarg_0);
00357
                            il.Emit(OpCodes.Ldarg_1);
00358
                            var mapField = tb.DefineField("_map", typeof(Dictionary<string, int>), FieldAttributes.InitOnly
           | FieldAttributes.Private);
00359
                            il.Emit(OpCodes.Stfld, mapField);
00360
                            il.Emit(OpCodes.Ret);
00361
00362
                            var indexer = typeof(TypeAccessor).GetProperty("Item");
                            var baseGetter = indexer.GetGetMethod();
var baseSetter = indexer.GetSetMethod();
00363
00364
                            var body = tb.DefineMethod(baseGetter.Name, baseGetter.Attributes & ~MethodAttributes.Abstract,
00365
           typeof(object), new Type[] { typeof(object), typeof(string) });
                            il = body.GetILGenerator();
00366
00367
                            WriteMapImpl(il, type, members, mapField, allowNonPublicAccessors, true);
00368
                            tb.DefineMethodOverride(body, baseGetter);
00369
                            \verb|body = tb.DefineMethod(baseSetter.Name, baseSetter.Attributes \& ~MethodAttributes.Abstract, baseSetter.Name, baseSetter.Attributes & ~MethodAttributes.Abstract, baseSetter.Name, baseSetter.Attributes & ~MethodAttributes.Abstract, baseSetter.Attributes.Abstract, baseSetter.Attributes.Abstract, baseSetter.Attributes.Abstract, baseSetter.Attributes.Abstract, baseSetter.Attributes.Abstract, baseSetter.Attributes.Abstract, baseSetter.Attributes.Abstract, baseSetter.Attributes.Abstract, baseSetter.Attributes.Abstract, baseSetter.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.Attributes.
00370
         null, new Type[] { typeof(object), typeof(string), typeof(object) });
00371
                             il = body.GetILGenerator();
00372
                            WriteMapImpl(il, type, members, mapField, allowNonPublicAccessors, false);
00373
                            tb.DefineMethodOverride(body, baseSetter);
00374
00375
                            MethodInfo baseMethod:
00376
                            if (ctor != null)
00377
                                   baseMethod = typeof(TypeAccessor).GetProperty(nameof(CreateNewSupported)).
         GetGetMethod();
00379
                                   body = tb.DefineMethod(baseMethod.Name, baseMethod.Attributes, baseMethod.ReturnType, Type.
         EmptyTypes);
00380
                                   il = bodv.GetILGenerator();
```

```
il.Emit(OpCodes.Ldc_I4_1);
00382
                      il.Emit(OpCodes.Ret);
00383
                      tb.DefineMethodOverride(body, baseMethod);
00384
00385
                      baseMethod = typeof(TypeAccessor).GetMethod(nameof(CreateNew));
00386
                      body = tb.DefineMethod(baseMethod.Name, baseMethod.Attributes, baseMethod.ReturnType, Type.
      EmptyTypes);
00387
                      il = body.GetILGenerator();
00388
                      il.Emit(OpCodes.Newobj, ctor);
00389
                      il.Emit(OpCodes.Ret);
                      tb.DefineMethodOverride(body, baseMethod);
00390
00391
                  }
00392
                  baseMethod = typeof(RuntimeTypeAccessor).GetProperty(nameof(Type),
      BindingFlags.NonPublic | BindingFlags.Instance).GetGetMethod(true);
00394
                  body = tb.DefineMethod(baseMethod.Name, baseMethod.Attributes & ~MethodAttributes.Abstract,
     baseMethod.ReturnType, Type.EmptyTypes);
                  il = body.GetILGenerator();
00395
                  il.Emit(OpCodes.Ldtoken, type);
00396
00397
                  il.Emit(OpCodes.Call, typeof(Type).GetMethod("GetTypeFromHandle"));
00398
                  il.Emit(OpCodes.Ret);
00399
                  tb.DefineMethodOverride(body, baseMethod);
00400
00401
                  var accessor = (TypeAccessor) Activator.CreateInstance(tb.CreateType(), map);
00402
                  return accessor;
00403
00404
00405
              private static void Cast(ILGenerator il, Type type, bool valueAsPointer)
00406
00407
                  if (type == typeof(object)) { }
00408
                  else if (type.IsValueType)
00409
00410
                      if (valueAsPointer)
00411
00412
                          il.Emit(OpCodes.Unbox, type);
00413
00414
                      else
00415
00416
                          il.Emit(OpCodes.Unbox_Any, type);
00417
00418
00419
                  else
00420
00421
                      il.Emit(OpCodes.Castclass, type);
00422
00423
00424
00428
              public abstract object this[object target, string name]
00429
00430
                  aet:
00431
                  set;
00432
00433
          }
00434 }
00435
00436 #endif
```

7.53 Reflection/PortableSerializationAttributes.cs File Reference

7.54 PortableSerializationAttributes.cs

```
00001 // File name: PortableSerializationAttributes.cs
00002 //
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00004 //
00005 // The MIT License (MIT)
00006 //
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00008 //
00009 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and 00010 // associated documentation files (the "Software"), to deal in the Software without restriction,
00011 // including without limitation the rights to use, copy, modify, merge, publish, distribute,
00012 // sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
00013 // furnished to do so, subject to the following conditions:
00014 //
00015 // The above copyright notice and this permission notice shall be included in all copies or
00016 // substantial portions of the Software.
00018 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT
```

```
00019 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
00020 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00023
00024 #if PORTABLE
00026 namespace System
00027 {
00031
          [AttributeUsage(AttributeTargets.Class | AttributeTargets.Struct, AllowMultiple = true, Inherited =
     false)1
00032
         public sealed class SerializableAttribute : Attribute
00033
              // This does nothing and should do nothing.
00034
00035
00036
          [AttributeUsage(AttributeTargets.Field, Inherited = false)]
00040
00041
          public sealed class NonSerializedAttribute : Attribute
00042
00043
              // This does nothing and should do nothing.
00044
00045 }
00046
00047 #endif
```

7.55 Reflection/PortableTypeInfo.cs File Reference

Classes

• class PommaLabs.Thrower.Reflection.PortableTypeInfo

Portable version of some useful reflection methods.

Namespaces

• namespace PommaLabs.Thrower.Reflection

7.56 PortableTypeInfo.cs

```
00001 // File name: PortableTypeInfo.cs
00002 //
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00004 //
00005 // The MIT License (MIT)
00006 //
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00008 //
00009 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and 00010 // associated documentation files (the "Software"), to deal in the Software without restriction,
00011 // including without limitation the rights to use, copy, modify, merge, publish, distribute, 00012 // sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
00013 // furnished to do so, subject to the following conditions:
00014 //
00015 // The above copyright notice and this permission notice shall be included in all copies or
00016 // substantial portions of the Software.
00017 //
00018 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT 00019 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
00020 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00023
00024 using System;
00025 using System.Collections.Generic;
00026 using System.Ling;
00027 using System.Reflection;
00028
00029 #if !PORTABLE
00030
00031 using PommaLabs. Thrower. Reflection. FastMember;
00032
```

```
00033 #endif
00034
00035 namespace PommaLabs.Thrower.Reflection
00036 {
00040
                               public static class PortableTypeInfo
00041
00042 #if !PORTABLE
                                            internal const BindingFlags PublicAndPrivateInstanceFlags = BindingFlags.Public | BindingFlags.
00043
                NonPublic | BindingFlags.Instance;
00044
                                         internal const BindingFlags PublicInstanceFlags = BindingFlags.Public | BindingFlags.Instance;
00045 #endif
00046
00047
                                          private static readonly object[] EmptyObjectArray = new object[0];
00048
00057 #if (NET45 || NET46 || PORTABLE)
00058
                                           [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
                MethodImplOptions.AggressiveInlining)]
00059 #endif
00060
00061
                                          public static IList<Attribute> GetCustomAttributes (MemberInfo memberInfo, bool
                  inherit)
00062
00063 #if PORTABLE
00064
                                                       return memberInfo.GetCustomAttributes(inherit).ToArray();
00065 #else
00066
                                                      return memberInfo.GetCustomAttributes(inherit).Cast<Attribute>().ToArray();
00067 #endif
00068
00069
00075 #if (NET45 || NET46 || PORTABLE)
                                          [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00076
                 MethodImplOptions.AggressiveInlining)]
00077 #endif
00078
00079
                                           public static IList<ConstructorInfo> GetConstructors(Type type)
00080
00081 #if PORTABLE
00082
                                                      return IntrospectionExtensions.GetTypeInfo(type).DeclaredConstructors.ToArray();
00083 #else
00084
                                                    return type.GetConstructors(PublicAndPrivateInstanceFlags);
00085 #endif
00086
                                          }
00087
00093 #if (NET45 || NET46 || PORTABLE)
                                          [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
                MethodImplOptions.AggressiveInlining)]
00095 #endif
00096
00097
                                           public static IList<ConstructorInfo> GetConstructors<T>() => GetConstructors(typeof(T));
00098
00104 #if (NET45 || NET46 || PORTABLE)
                                           [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
                MethodImplOptions.AggressiveInlining)]
00106 #endif
00107
00108
                                           public static Type GetBaseType(Type type)
00109
00110 #if PORTABLE
00111
                                                       return IntrospectionExtensions.GetTypeInfo(type).BaseType;
00112 #else
00113
                                                       return type.BaseType;
00114 #endif
00115
00116
00122 #if (NET45 || NET46 || PORTABLE)
00123
                                           [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
                MethodImplOptions.AggressiveInlining)]
00124 #endif
00125
00126
                                           public static Type GetGenericTypeDefinition(Type type)
00127
00128 #if PORTABLE
00129
                                                       return IntrospectionExtensions.GetTypeInfo(type).GetGenericTypeDefinition();
00130 #else
                                                       return type.GetGenericTypeDefinition();
00131
00132 #endif
00133
00134
00140 #if (NET45 || NET46 || PORTABLE)
                                           [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00141
                 MethodImplOptions.AggressiveInlining)]
00142 #endif
00143
00144
                                           public static IList<Type> GetGenericTypeArguments(Type type)
00145
00146 #if PORTABLE
00147
                                                       return IntrospectionExtensions.GetTypeInfo(type).GenericTypeArguments;
```

```
00148 #else
00149
                  return type.GetGenericArguments();
00150 #endif
00151
00152
00158 #if (NET45 || NET46 || PORTABLE)
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00159
     MethodImplOptions.AggressiveInlining)]
00160 #endif
00161
              public static IList<Type> GetInterfaces(Type type)
00162
00163
00164 #if PORTABLE
00165
                  return IntrospectionExtensions.GetTypeInfo(type).ImplementedInterfaces.ToArray();
00166 #else
00167
                  return type.GetInterfaces();
00168 #endif
00169
              }
00176 #if (NET45 || NET46 || PORTABLE)
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
     MethodImplOptions.AggressiveInlining)]
00178 #endif
00179
00180
              public static IList<PropertyInfo> GetPublicProperties(Type type)
00181
00182 #if PORTABLE
00183
                  var properties = new List<PropertyInfo>();
00184
                  while (type != null)
00185
00186
                      var typeInfo = IntrospectionExtensions.GetTypeInfo(type);
00187
                      properties.AddRange(typeInfo.DeclaredProperties.Where(p => p.GetMethod.IsPublic));
00188
                      type = typeInfo.BaseType;
00189
00190
                  return properties;
00191 #else
00192
                  return type.GetProperties(PublicInstanceFlags);
00193 #endif
00194
00195
00201 #if (NET45 || NET46 || PORTABLE)
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00202
     MethodImplOptions.AggressiveInlining)]
00203 #endif
00204
00205
              public static IList<PropertyInfo> GetPublicProperties<T>() => GetPublicProperties(typeof(T));
00206
00207
              #region GetPublicPropertyValue
00208
00215 #if (NET45 || NET46 || PORTABLE)
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00216
      MethodImplOptions.AggressiveInlining)]
00217 #endif
00218
              public static object GetPublicPropertyValue(object instance, PropertyInfo
00219
      propertyInfo)
00220
              {
                  Raise.ArgumentNullException.IfIsNull(instance, nameof(instance), "Instance cannot be null"
00221
00222
                 Raise.ArgumentException.IfNot(propertyInfo.CanRead, nameof(propertyInfo), "Given property
      cannot be read"):
00223
                  return propertyInfo.GetValue(instance, EmptyObjectArray);
00224
              }
00225
00226 #if !PORTABLE
00227 #if (NET45 || NET46 || PORTABLE)
00235
              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
     MethodImplOptions.AggressiveInlining) ]
00236 #endif
00237
              public static object GetPublicPropertyValue(
      TypeAccessor typeAccessor, object instance, PropertyInfo propertyInfo)
00239
             {
                  Raise.ArgumentNullException.IfIsNull(instance, nameof(instance), "Instance cannot be null"
00240
00241
                  Raise.ArgumentException.IfNot(propertyInfo.CanRead, nameof(propertyInfo), "Given property
      cannot be read");
00242
                 return typeAccessor[instance, propertyInfo.Name];
00243
              }
00244
00245 #endif
00246
00247
              #endregion GetPublicPropertyValue
00248
00249
              #region IsAbstract
00250
00256 #if (NET45 || NET46 || PORTABLE)
```

```
00257
                                     [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
                MethodImplOptions.AggressiveInlining)]
00258 #endif
00259
00260
                                     public static bool IsAbstract (Type type)
00261
00262 #if PORTABLE
00263
                                               return IntrospectionExtensions.GetTypeInfo(type).IsAbstract;
00264 #else
00265
                                               return type.IsAbstract;
00266 #endif
00267
                                     }
00268
00274 #if (NET45 || NET46 || PORTABLE)
00275
                                    [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
              MethodImplOptions.AggressiveInlining)]
00276 #endif
00277
00278
                                    public static bool IsAbstract<T>() => IsAbstract(typeof(T));
00279
00280
                                    #endregion IsAbstract
00281
00282
                                    #region IsClass
00283
00289 #if (NET45 || NET46 || PORTABLE)
                                    [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
               MethodImplOptions.AggressiveInlining)]
00291 #endif
00292
00293
                                     public static bool IsClass(Type type)
00294
00295 #if PORTABLE
00296
                                              return IntrospectionExtensions.GetTypeInfo(type).IsClass;
00297 #else
00298
                                               return type.IsClass;
00299 #endif
00300
                                    }
00307 #if (NET45 || NET46 || PORTABLE)
                                     [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
              MethodImplOptions.AggressiveInlining)]
00309 #endif
00310
00311
                                    public static bool IsClass<T>() => IsClass(typeof(T));
00312
00313
                                     #endregion IsClass
00314
00325 #if (NET45 || NET46 || PORTABLE)
                                    [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00326
              MethodImplOptions.AggressiveInlining)]
00327 #endif
00328
00329
                                     public static bool IsAssignableFrom(object obj, Type type)
00330
                                                if (ReferenceEquals(obj, null) || ReferenceEquals(type, null))
00331
00332
                                                {
                                                           return false:
00334
00335
00336 #if PORTABLE
00337
                                               return IntrospectionExtensions.GetTypeInfo(obj.GetType()).IsAssignableFrom(
               IntrospectionExtensions.GetTypeInfo(type));
00338 #else
00339
                                               return obj.GetType().IsAssignableFrom(type);
00340 #endif
00341
                                    }
00342
00343
                                    #region IsEnum
00344
00350 #if (NET45 || NET46 || PORTABLE)
                                     [System. Runtime. Compiler Services. Method Impl (System. Runtime. Runtime. Method Impl (System. Runtime. Runtime. Method Impl (System. Runtime. Runtim
               MethodImplOptions.AggressiveInlining)]
00352 #endif
00353
00354
                                    public static bool IsEnum (Type type)
00355
00356 #if PORTABLE
00357
                                        return IntrospectionExtensions.GetTypeInfo(type).IsEnum;
00358 #else
00359
                                               return type. IsEnum;
00360 #endif
00361
                                    }
00362
00368 #if (NET45 || NET46 || PORTABLE)
00369
                                    [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
              MethodImplOptions.AggressiveInlining)]
00370 #endif
```

```
00372
                                    public static bool IsEnum<T>() => IsEnum(typeof(T));
00373
00374
                                    #endregion IsEnum
00375
00376
                                    #region IsGenericType
00377
00383 #if (NET45 || NET46 || PORTABLE)
                                    [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.MethodImpl(System.Runtime.Compile
              MethodImplOptions.AggressiveInlining)]
00385 #endif
00386
00387
                                    public static bool IsGenericType(Type type)
00388
00389 #if PORTABLE
00390
                                              return IntrospectionExtensions.GetTypeInfo(type).IsGenericType;
00391 #else
00392
                                              return type.IsGenericType;
00393 #endif
00394
                                    }
00395
00401 #if (NET45 || NET46 || PORTABLE)
00402
                                   [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
              MethodImplOptions.AggressiveInlining)]
00403 #endif
00404
00405
                                    public static bool IsGenericType<T>() => IsGenericType(typeof(T));
00406
00407
                                    #endregion IsGenericType
00408
00409
                                   #region IsGenericTypeDefinition
00410
00416 #if (NET45 || NET46 || PORTABLE)
                                    [System.Runtime.CompilerServices.MethodImpl (System.Runtime.CompilerServices.MethodImpl (System.Runtime.Comp
00417
              MethodImplOptions.AggressiveInlining)]
00418 #endif
00419
                                   public static bool IsGenericTypeDefinition(Type type)
00421
00422 #if PORTABLE
00423
                                              return IntrospectionExtensions.GetTypeInfo(type).IsGenericTypeDefinition;
00424 #else
00425
                                             return type. Is Generic Type Definition;
00426 #endif
00427
00428
00434 #if (NET45 || NET46 || PORTABLE)
00435
                                  [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
              MethodImplOptions.AggressiveInlining)]
00436 #endif
00437
00438
                                   public static bool IsGenericTypeDefinition<T>() => IsGenericTypeDefinition(typeof(T));
00439
00440
                                   #endregion IsGenericTypeDefinition
00441
00448 #if (NET45 || NET46 || PORTABLE)
                                    [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
              MethodImplOptions.AggressiveInlining)]
00450 #endif
00451
00452
                                    public static bool IsInstanceOf(object obj, Type type)
00453
                                     {
00454
                                               if (ReferenceEquals(obj, null) || ReferenceEquals(type, null))
00455
                                               {
00456
                                                          return false;
00457
00458
00459 #if PORTABLE
                                              return IntrospectionExtensions.GetTypeInfo(type).IsAssignableFrom(IntrospectionExtensions.
00460
              GetTypeInfo(obj.GetType()));
00461 #else
00462
                                              return type.IsInstanceOfType(obj);
00463 #endif
                                    }
00464
00465
00466
                                  #region IsInterface
00467
00473 #if (NET45 || NET46 || PORTABLE)
00474
                                    [System. Runtime. Compiler Services. Method Impl (System. Runtime. Compiler Services.)] \\
             MethodImplOptions.AggressiveInlining)]
00475 #endif
00476
00477
                                    public static bool IsInterface(Type type)
00478
00479 #if PORTABLE
00480
                                              return IntrospectionExtensions.GetTypeInfo(type).IsInterface;
00481 #else
```

```
00482
                                     return type.IsInterface;
00483 #endif
00484
00485
00491 #if (NET45 || NET46 || PORTABLE)
00492
                              [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
           MethodImplOptions.AggressiveInlining)]
00493 #endif
00494
00495
                             public static bool IsInterface<T>() => IsInterface(typeof(T));
00496
00497
                            #endregion IsInterface
00498
00499
                            #region IsPrimitive
00500
00506 #if (NET45 || NET46 || PORTABLE)
                             [System. Runtime. Compiler Services. Method Impl (System. Runtime. Runtime. Method Impl (System. Runtime. 
00507
            MethodImplOptions.AggressiveInlining) ]
00509
00510
                            public static bool IsPrimitive(Type type)
00511
00512 #if PORTABLE
00513
                                return IntrospectionExtensions.GetTypeInfo(type).IsPrimitive;
00514 #else
00515
                                   return type. Is Primitive;
00516 #endif
00517
00518
00524 #if (NET45 || NET46 || PORTABLE)
                             [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
00525
           MethodImplOptions.AggressiveInlining)]
00526 #endif
00527
00528
                             public static bool IsPrimitive<T>() => IsPrimitive(typeof(T));
00529
00530
                            #endregion IsPrimitive
00532
                             #region IsValueType
00533
00539 #if (NET45 || NET46 || PORTABLE)
00540
                             [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
           MethodImplOptions.AggressiveInlining)]
00541 #endif
00542
                             public static bool IsValueType(Type type)
00543
00544
00545 #if PORTABLE
00546
                                      return IntrospectionExtensions.GetTypeInfo(type).IsValueType;
00547 #else
00548
                                    return type.IsValueType;
00549 #endif
00550
00551
00557 #if (NET45 || NET46 || PORTABLE)
00558
                             [System.Runtime.CompilerServices.MethodImpl(System.Runtime.CompilerServices.
           MethodImplOptions.AggressiveInlining)]
00559 #endif
00560
00561
                             public static bool IsValueType<T>() => IsValueType(typeof(T));
00562
00563
                            #endregion IsValueType
00564
                    }
00565 }
```

7.57 ThrowerException.cs File Reference

Classes

· class PommaLabs.Thrower.ThrowerException

Exception thrown by Raise<TEx> when the type parameter passed to that class has something invalid (missing constructors, etc).

Namespaces

namespace PommaLabs.Thrower

7.58 ThrowerException.cs

```
00001 // File name: ThrowerException.cs
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00004 //
00005 // The MIT License (MIT)
00006 //
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00009 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and
00010 // associated documentation files (the "Software"), to deal in the Software without restriction,
00011 // associated documentation lifes (the Software, ), to dear in the oriented models and of the Software, and to permit persons to whom the Software is
00013 // furnished to do so, subject to the following conditions:
00015 // The above copyright notice and this permission notice shall be included in all copies or
00016 \ensuremath{//} substantial portions of the Software.
00017 //
00018 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT 00019 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND 00020 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00023
00024 using System;
00025 using System.Diagnostics.CodeAnalysis;
00027 namespace PommaLabs.Thrower
00028 {
00033
           [Serializable]
00034
           [SuppressMessage("Microsoft.Design", "CA1032:ImplementStandardExceptionConstructors")]
00035
           public sealed class ThrowerException : Exception
00036
                [SuppressMessage("Microsoft.Design", "CA1032:ImplementStandardExceptionConstructors")]
00038
               private ThrowerException(string message)
00039
                    : base(message)
00040
00041
00042
00043
                internal static ThrowerException AbstractEx => new ThrowerException("Given exception type is
00044
00045
               internal static ThrowerException MissingNoArgsCtor => new ThrowerException("Given exception type
        has no parameterless constructor");
00046
                internal static ThrowerException MissingMsgCtor => new ThrowerException("Given exception type has
00047
        not a valid message constructor");
00048
00049 }
```

7.59 Validation/EmailAddressValidator.cs File Reference

Classes

· class PommaLabs.Thrower.Validation.EmailAddressValidator

An email address validator.

Namespaces

namespace PommaLabs.Thrower.Validation

7.60 EmailAddressValidator.cs

```
00001 // File name: EmailAddressValidator.cs
00003 // Author(s): Jeffrey Stedfast <jeff@xamarin.com>
00004 //
00005 // Copyright (c) 2013 Xamarin Inc.
00006 //
00007 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and 00008 // associated documentation files (the "Software"), to deal in the Software without restriction,
00009 // including without limitation the rights to use, copy, modify, merge, publish, distribute,
00010 //
          sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
00011 // furnished to do so, subject to the following conditions:
00012 //
00013 // The above copyright notice and this permission notice shall be included in all copies or
00014 // substantial portions of the Software.
00016 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT 00017 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
00018 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, 00019 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00020 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00021
00022 using System;
00023
00024 namespace PommaLabs. Thrower. Validation
00025 {
00030
           public static class EmailAddressValidator
00031
00032
                private const string AtomCharacters = "!#$%&'*+-/=?^_`{|}~";
00033
00034
                private static bool IsLetterOrDigit(char c)
00035
                    return (c >= 'A' && c <= 'Z') || (c >= 'a' && c <= 'z') || (c >= '0' && c <= '9');
00036
00037
00038
00039
                private static bool IsAtom(char c, bool allowInternational)
00040
00041
                    return c < 128 ? IsLetterOrDigit(c) || AtomCharacters.IndexOf(c) != -1 : allowInternational;
00042
00043
00044
                private static bool IsDomain(char c, bool allowInternational)
00045
00046
                    return c < 128 ? IsLetterOrDigit(c) || c == '-' : allowInternational;</pre>
00047
00048
                private static bool SkipAtom(string text, ref int index, bool allowInternational)
00049
00050
00051
                    var startIndex = index;
00052
00053
                    while (index < text.Length && IsAtom(text[index], allowInternational))</pre>
00054
                         index++;
00055
00056
                    return index > startIndex;
00057
00058
00059
                private static bool SkipSubDomain(string text, ref int index, bool allowInternational)
00060
00061
                    var startIndex = index;
00062
00063
                    if (!IsDomain(text[index], allowInternational) || text[index] == '-')
00064
                         return false;
00065
00066
                    index++:
00067
00068
                    while (index < text.Length && IsDomain(text[index], allowInternational))</pre>
00069
                         index++;
00070
00071
                    return (index - startIndex) < 64 && text[index - 1] != '-';</pre>
00072
00073
00074
                private static bool SkipDomain(string text, ref int index, bool allowInternational, bool
      allowTopLevelDomains)
00075
                {
00076
                    if (!SkipSubDomain(text, ref index, allowInternational))
                         return false:
00077
00078
00079
                    if (index < text.Length && text[index] == '.')</pre>
00080
                    {
00081
00082
00083
                             index++:
00084
00085
                             if (index == text.Length)
00086
                                  return false;
00087
```

```
if (!SkipSubDomain(text, ref index, allowInternational))
00089
                                eturn false;
00090
                       } while (index < text.Length && text[index] == '.');</pre>
00091
                   else if (!allowTopLevelDomains)
00092
00093
00094
                       return false;
00095
00096
00097
                   return true;
00098
              }
00099
00100
              private static bool SkipQuoted(string text, ref int index, bool allowInternational)
00101
00102
                   var escaped = false;
00103
                   // skip over leading '"'
00104
00105
                  index++;
00106
00107
                   while (index < text.Length)</pre>
00108
00109
                       if (text[index] >= 128 && !allowInternational)
00110
                           return false;
00111
00112
                       if (text[index] == '\\')
00113
00114
                           escaped = !escaped;
00115
00116
                       else if (!escaped)
00117
00118
                           if (text[index] == '"')
00119
                               break;
00120
00121
                       else
00122
                           escaped = false;
00123
00124
00125
00126
                       index++;
00127
00128
                   if (index >= text.Length || text[index] != '"')
00129
00130
                       return false;
00131
00132
                  index++;
00133
00134
                   return true;
00135
              }
00136
              private static bool SkipWord(string text, ref int index, bool allowInternational)
00137
00138
00139
                   if (text[index] == '"')
00140
                       return SkipQuoted(text, ref index, allowInternational);
00141
                  return SkipAtom(text, ref index, allowInternational);
00142
00143
              }
00144
00145
              private static bool SkipIPv4Literal(string text, ref int index)
00146
00147
                  var groups = 0;
00148
00149
                  while (index < text.Length && groups < 4)</pre>
00150
00151
                       var startIndex = index;
00152
                      var value = 0;
00153
                       while (index < text.Length && text[index] >= '0' && text[index] <= '9')</pre>
00154
00155
00156
                           value = (value * 10) + (text[index] - '0');
00157
                           index++;
00158
00159
00160
                       if (index == startIndex || index - startIndex > 3 || value > 255)
00161
                           return false:
00162
00163
                       groups++;
00164
00165
                       if (groups < 4 && index < text.Length && text[index] == '.')</pre>
00166
                           index++;
00167
                  }
00168
00169
                   return groups == 4;
00170
00171
00172
              private static bool IsHexDigit(char c)
00173
00174
                   return (c >= 'A' && c <= 'F') || (c >= 'a' && c <= 'f') || (c >= '0' && c <= '9');
```

```
00175
                  }
00176
00177
                   // This needs to handle the following forms:
00178
                  //
// IPv6-addr = IPv6-full / IPv6-comp / IPv6v4-full / IPv6v4-comp IPv6-hex = 1*4HEXDIG
// IPv6-full = IPv6-hex 7(":" IPv6-hex) IPv6-comp = [IPv6-hex *5(":" IPv6-hex)] "::"
// [IPv6-hex *5(":" IPv6-hex)]; The "::" represents at least 2 16-bit groups of zeros; No
// more than 6 groups in addition to the "::" may be; present IPv6v4-full = IPv6-hex 5(":"
00179
00180
00181
00182
                  // More than 6 groups in addition to the :: May be ; present provoner 3(
// IPv6-hex) ":" IPv4-address-literal IPv6v4-comp = [IPv6-hex *3(":" IPv6-hex)] "::"
// [IPv6-hex *3(":" IPv6-hex) ":"] IPv4-address-literal; The "::" represents at least 2
// 16-bit groups of zeros; No more than 4 groups in addition to the "::" and;
// IPv4-address-literal may be present
00183
00184
00185
00186
00187
                  private static bool SkipIPv6Literal(string text, ref int index)
00188
00189
                        var compact = false;
00190
                       var colons = 0;
00191
00192
                        while (index < text.Length)</pre>
00193
00194
                             var startIndex = index;
00195
00196
                             while (index < text.Length && IsHexDigit(text[index]))</pre>
00197
                                  index++;
00198
00199
                             if (index >= text.Length)
00200
                                  break;
00201
00202
                             if (index > startIndex && colons > 2 && text[index] == '.')
00203
                                   // IPv6v4
00204
00205
                                  index = startIndex:
00206
00207
                                   if (!SkipIPv4Literal(text, ref index))
00208
                                       return false;
00209
                                  return compact ? colons < 6 : colons == 6;</pre>
00210
00211
                             }
00212
00213
                             var count = index - startIndex;
00214
                             if (count > 4)
00215
                                   return false;
00216
                             if (text[index] != ':')
00217
00218
                                  break;
00219
00220
                             startIndex = index;
00221
                             while (index < text.Length && text[index] == ':')</pre>
00222
                                  index++:
00223
00224
                             count = index - startIndex;
00225
                             if (count > 2)
00226
                                  return false;
00227
00228
                             if (count == 2)
00229
00230
                                  if (compact)
00231
                                       return false;
00232
00233
                                  compact = true;
00234
                                  colons += 2;
00235
00236
                             else
00237
                             {
00238
                                  colons++;
00239
00240
                        }
00241
00242
                        if (colons < 2)
00243
                             return false:
00244
00245
                        return compact ? colons < 7 : colons == 7;</pre>
00246
                  }
00247
                  public static bool Validate(string emailAddress, Options options =
00265
       Options.None)
00266
00267
                        var allowInternational = ((options & Options.AllowInternational) ==
       Options.AllowInternational);
00268
                       var allowTopLevelDomains = ((options & Options.AllowTopLevelDomains) ==
       Options.AllowTopLevelDomains);
00269
00270
                       var index = 0;
00271
00272
                        if (emailAddress == null)
00273
                             throw new ArgumentNullException(nameof(emailAddress));
00274
00275
                        if (emailAddress.Length == 0 || emailAddress.Length >= 255)
```

```
return false;
00277
00278
                   if (!SkipWord(emailAddress, ref index, allowInternational) || index >= emailAddress.Length)
00279
                       return false;
00280
00281
                   while (emailAddress[index] == '.')
00282
00283
                       index++;
00284
00285
                       if (index >= emailAddress.Length)
00286
                           return false;
00287
00288
                       if (!SkipWord(emailAddress, ref index, allowInternational))
00289
00290
00291
                       if (index >= emailAddress.Length)
00292
                           return false:
00293
                   }
00294
00295
                   if (index + 1 >= emailAddress.Length || index > 64 || emailAddress[index++] != '@')
00296
00297
00298
                   if (emailAddress[index] != '[')
00299
                   {
00300
                       // domain
00301
                       if (!SkipDomain(emailAddress, ref index, allowInternational, allowTopLevelDomains))
00302
00303
00304
                       return index == emailAddress.Length;
00305
                  }
00306
00307
                   // address literal
00308
00309
                  // we need at least 8 more characters
if (index + 8 >= emailAddress.Length)
00310
00311
00312
                       return false;
00313
00314
                   var ipv6 = emailAddress.Substring(index, 5);
00315
                   if (ipv6.ToLowerInvariant() == "ipv6:")
00316
00317
                       index += "IPv6:".Length;
00318
                       if (!SkipIPv6Literal(emailAddress, ref index))
00319
                           return false;
00320
                   }
00321
                   else
00322
00323
                       if (!SkipIPv4Literal(emailAddress, ref index))
00324
                           return false:
00325
                  }
00326
00327
                   if (index >= emailAddress.Length || emailAddress[index++] != ']')
00328
                       return false;
00329
                   return index == emailAddress.Length;
00330
00331
              }
00332
              [Flags]
00336
00337
              public enum Options
00338
00342
                  None = 0.
00343
00347
                  AllowInternational = 1,
00348
00352
                  AllowTopLevelDomains = 2
00353
00354
          }
00355 }
```

7.61 Validation/ObjectValidator.cs File Reference

Classes

• class PommaLabs.Thrower.Validation.ObjectValidator

Validates an object public properties that have been decorated with the ValidateAttribute custom attribute.

Namespaces

• namespace PommaLabs.Thrower.Validation

7.62 ObjectValidator.cs 245

7.62 ObjectValidator.cs

```
00001 // File name: ObjectValidator.cs
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00004 //
00005 // The MIT License (MIT)
00006 //
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00008 //
00009 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and
00010 // associated documentation files (the "Software"), to deal in the Software without restriction,
00011 // including without limitation the rights to use, copy, modify, merge, publish, distribute, 00012 // sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
00013 \/\/ furnished to do so, subject to the following conditions:
00014 //
00015 // The above copyright notice and this permission notice shall be included in all copies or
00016 // substantial portions of the Software.
00017 //
00018 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT 00019 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
00020 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00023
00024 using PommaLabs.Thrower.Reflection;
00025 using System;
00026 using System.Collections;
00027 using System.Collections.Generic;
00028 using System.Ling;
00029 using System.Text;
00030
00031 namespace PommaLabs. Thrower. Validation
00032 {
00037
           public static class ObjectValidator
00038
00042
               public const string RootPlaceholder = "$";
00043
               private static readonly ValidateAttribute DefaultValidation = new
00044
      ValidateAttribute():
00045
00046
               private static readonly HashSet<Type> AlwaysValidTypes = new HashSet<Type>
00047
00048
                   typeof(bool),
                   typeof(char),
typeof(byte),
00049
00050
                   typeof(short),
00051
00052
                   typeof (ushort),
                   typeof(int),
00053
00054
                   typeof(uint),
00055
                   typeof(long),
00056
                   typeof(ulong),
00057
                   typeof(float),
00058
                   typeof (double)
                   typeof(decimal),
00059
00060
                   typeof(string)
00061
               };
00062
               public static string FormatValidationErrors(IEnumerable<ValidationError>
00069
      validationErrors, string startMessage = null)
00070
              {
00071
                   var builder = new StringBuilder();
00072
                   if (!string.IsNullOrEmpty(startMessage))
00073
00074
                        builder.Append(startMessage);
00075
                       builder.Append(" - ");
00077
                   builder.AppendLine("Following paths failed the validation checks:");
00078
                   foreach (var ve in validationErrors)
00079
00080
                        builder.AppendLine($" >> {ve.Path}: {ve.Reason}");
00081
00082
                   return builder.ToString();
00083
00084
00092
               public static bool Validate(object obj, out IList<ValidationError> validationErrors)
00093
00094
                    // The list of errors which will be populated during the validation process.
00095
                   validationErrors = new List<ValidationError>();
00097 #if (!NET35 && !PORTABLE)
00098
                   // Applies standard .NET validation.
00099
00100
                   var netValidationErrors = new List<System.ComponentModel.DataAnnotations.ValidationResult
00101
                   var netValidationContext = new System.ComponentModel.DataAnnotations.ValidationContext(
```

```
obj, null, null);
00102
                  if (!System.ComponentModel.DataAnnotations.Validator.TryValidateObject(obj,
      netValidationContext, netValidationErrors, true))
00103
                  {
00104
                      foreach (var netValidationError in netValidationErrors)
                      foreach (var memberName in netValidationError.MemberNames)
00105
00106
00107
                          validationErrors.Add(new ValidationError
00108
                              Path = $"{RootPlaceholder}.{memberName}",
00109
                              Reason = netValidationError.ErrorMessage
00110
00111
                          });
00112
                      }
00113
                  }
00114
00115 #endif
00116
00117
                  // Apply the final Thrower validation.
                  return ValidateInternal(obj, RootPlaceholder, DefaultValidation, validationErrors);
00119
             }
00120
00121
              private static bool ValidateInternal(object obj, string path,
     ValidateAttribute validation, IList<ValidationError> validationErrors)
00122
             {
00123
                  if (ReferenceEquals(obj, null))
00124
                  {
00125
                      if (validation.Required)
00126
00127
                          validationErrors.Add(new ValidationError { Path = path, Reason = "
     Property is required, found null" });
00128
                          return false:
00129
00130
00131
                      // If object is null, we cannot do anything else.
00132
                      return true;
                  }
00133
00134
00135
                  var objType = obj.GetType();
00136
                  if (AlwaysValidTypes.Contains(objType) || PortableTypeInfo.
00137
     IsEnum(objType))
00138
                 {
00139
                      return true:
00140
                  }
00141
00142
                  var isValueType = PortableTypeInfo.IsValueType(objType);
00143
00144
                  \ensuremath{//} Check whether this type is nullable.
                  if (validation.Required && isValueType && PortableTypeInfo.
00145
     IsGenericType(objType) && objType.GetGenericTypeDefinition() == typeof(Nullable<>))
00146
                  {
                      var nullableProps = PortableTypeInfo.
00147
      GetPublicProperties(objType);
00148
                      var nullableHasValueProp = nullableProps.First(p => p.Name == nameof(Nullable<bool>.
      HasValue));
00149
                      if ((bool) PortableTypeInfo.
00150
     GetPublicPropertyValue(obj, nullableHasValueProp))
00151
00152
                          validationErrors.Add(new ValidationError { Path = path, Reason = "
     Property is required, found null" });
00153
                          return false;
00154
00155
00156
                      var nullableValueProp = nullableProps.First(p => p.Name == nameof(Nullable<bool>.Value));
00157
                      var nullableValue = PortableTypeInfo.
     GetPublicPropertyValue(obj, nullableValueProp);
00158
                      return ValidateInternal (nullableValue, path, validation, validationErrors);
00159
                  }
00160
00161
                  var collection = obj as ICollection;
00162
                  if (collection != null)
00163
                      var c = collection.Count;
00164
                      if (c < validation.CollectionItemsMinCount)</pre>
00165
00166
                           validationErrors.Add(new ValidationError { Path = path, Reason = $"
00167
     Minimum item count is {validation.CollectionItemsMinCount}, found {c}" });
00168
00169
                      if (c > validation.CollectionItemsMaxCount)
00170
00171
                          validationErrors.Add(new ValidationError { Path = path, Reason = $"
      Maximum item count is {validation.CollectionItemsMaxCount}, found {c}"
00172
00173
                  }
00174
00175
                  var enumerable = obi as IEnumerable;
```

```
00176
                  if (enumerable != null && validation.Enumerable)
00177
                  {
00178
                      var itemValidation = new ValidateAttribute { Required = validation.
      EnumerableItemsRequired };
                     var index = 0;
00179
00180
                      foreach (var item in enumerable)
00181
00182
                          var indexedNewPath = $"{path}[{index++}]";
00183
                          ValidateInternal(item, indexedNewPath, itemValidation, validationErrors);
00184
00185
                  }
00186
00187
                  if (PortableTypeInfo.IsClass(objType) || isValueType)
00188
00189
                      var props = PortableTypeInfo.GetPublicProperties(objType
00190
                      var reqProps = from p in props
00191
                                     from a in PortableTypeInfo.
      GetCustomAttributes(p, false)
00192
                                     let v = a as ValidateAttribute
00193
                                     where v != null
00194
                                     select new { PropertyInfo = p, Validation = v };
00195
00196 #if !PORTABLE
00197
                      var typeAccessor = Reflection.FastMember.TypeAccessor.Create(objType);
00198 #endif
00199
00200
                      foreach (var rp in reqProps)
00201
00202
                          var propertyInfo = rp.PropertyInfo;
00203
00204 #if PORTABLE
00205
                          var propertyValue = PortableTypeInfo.
      GetPublicPropertyValue(obj, propertyInfo);
00206 #else
                          var propertyValue = PortableTypeInfo.
00207
      GetPublicPropertyValue(typeAccessor, obj, propertyInfo);
00208 #endif
00209
00210
                          var newPath = $"{path}.{propertyInfo.Name}";
00211
                          ValidateInternal(propertyValue, newPath, rp.Validation, validationErrors);
00212
                      }
00213
00214
                      return validationErrors.Count == 0;
00215
                 }
00216
00217
                  // Non dovrei mai finire qui!
00218
                  return true;
             }
00219
00220
         }
00221 }
```

7.63 Validation/PhoneNumberValidator.cs File Reference

Classes

class PommaLabs.Thrower.Validation.PhoneNumberValidator

A phone number validator.

Namespaces

namespace PommaLabs.Thrower.Validation

7.64 PhoneNumberValidator.cs

```
00001 // Taken from:
    http://referencesource.microsoft.com/#System.ComponentModel.DataAnnotations/DataAnnotations/PhoneAttribute.cs
00002
00003 using System.Text.RegularExpressions;
00004
```

```
00005 namespace PommaLabs.Thrower.Validation
00011
         public static class PhoneNumberValidator
00012
00013
             private static readonly Regex PhoneNumberRegex = CreatePhoneNumberRegex();
00014
00020
             public static bool Validate(string phoneNumber)
00021
00022
                 // Preconditions
00023
                 Raise.ArgumentException.IfIsNullOrWhiteSpace(phoneNumber, nameof(phoneNumber));
00024
00025
                 return PhoneNumberRegex. IsMatch (phoneNumber);
00026
             }
00027
00028
             private static Regex CreatePhoneNumberRegex()
00029
00030
                 const string pattern = @"
     00031 #if PORTABLE
00032
                const RegexOptions options = RegexOptions.IgnoreCase | RegexOptions.ExplicitCapture;
00033 #else
00034
                \verb|const| \texttt{RegexOptions} = \verb|RegexOptions|. \texttt{Compiled}| | \texttt{RegexOptions}. \texttt{IgnoreCase}| | \texttt{RegexOptions}. \\
     ExplicitCapture;
00035 #endif
00036
                 return new Regex (pattern, options);
00037
00038
         }
00039 }
```

7.65 Validation/ValidateAttribute.cs File Reference

Classes

class PommaLabs.Thrower.Validation.ValidateAttribute

Indicates that the property should be validated.

Namespaces

· namespace PommaLabs.Thrower.Validation

7.66 ValidateAttribute.cs

```
00001 // File name: ValidateAttribute.cs
00002 //
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00004 //
00005 // The MIT License (MIT)
00006 //
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00008 //
00009 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and 00010 // associated documentation files (the "Software"), to deal in the Software without restriction,
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00012 // sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
00013 // furnished to do so, subject to the following conditions:
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00016 // substantial portions of the Software.
00017 //
00018 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT 00019 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND 00020 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00023
00024 using System;
00025 using System.Collections;
00026
00027 namespace PommaLabs.Thrower.Validation
00028 {
```

```
00032
          [AttributeUsage(AttributeTargets.Property, AllowMultiple = false, Inherited = false)]
00033
          public sealed class ValidateAttribute : Attribute
00034
00040
              public bool Required { get; set; } = false;
00041
00048
              public bool Enumerable { get; set; } = true;
00049
00056
              public bool EnumerableItemsRequired { get; set; } = false;
00057
00068
              public long CollectionItemsMinCount { get; set; } = OL;
00069
00076
              public long CollectionItemsMaxCount { get; set; } = long.MaxValue;
00077
          }
00078 }
```

7.67 Validation/ValidationError.cs File Reference

Classes

struct PommaLabs.Thrower.Validation.ValidationError

Represents an error found while validating an object.

Namespaces

· namespace PommaLabs.Thrower.Validation

7.68 ValidationError.cs

```
00001 // File name: ValidationError.cs
00003 // Author(s): Alessio Parma <alessio.parma@gmail.com>
00004 //
00005 // The MIT License (MIT)
00006 //
00007 // Copyright (c) 2013-2016 Alessio Parma <alessio.parma@gmail.com>
00008 //
00009 // Permission is hereby granted, free of charge, to any person obtaining a copy of this software and 00010 // associated documentation files (the "Software"), to deal in the Software without restriction,
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00012 // sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is 00013 // furnished to do so, subject to the following conditions:
00014 //
00015 // The above copyright notice and this permission notice shall be included in all copies or
00016 // substantial portions of the Software.
00017 //
00018 // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT 00019 // NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND 00020 // NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
00021 // DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
00022 // OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
00023
00024 using System;
00025
00026 namespace PommaLabs.Thrower.Validation
00027 {
             [Serializable]
00031
00032
            public struct ValidationError
00033
00037
                  public string Path { get; set; }
00038
00042
                  public string Reason { get; set; }
00043
            }
00044 }
```

Index

Add	DefaultUserMessage
PommaLabs::Thrower::Reflection::FastMember::← ObjectAccessor, 73, 74	PommaLabs::Thrower::HttpException, 51
AllowInternational	Enumerable
PommaLabs::Thrower::Validation::EmailAddress↔ Validator, 45	PommaLabs::Thrower::Validation::Validate ← Attribute, 157
AllowTopLevelDomains	EnumerableItemsRequired
PommaLabs::Thrower::Validation::EmailAddress↔ Validator, 45	PommaLabs::Thrower::Validation::Validate ← Attribute, 157
	Equals
Clear PommaLabs::Thrower::Reflection::FastMember::← ObjectAccessor, 74	PommaLabs::Thrower::Reflection::FastMember::- ObjectAccessor, 76
CollectionItemsMaxCount	ErrorCode
PommaLabs::Thrower::Validation::Validate Attribute, 157	PommaLabs::Thrower::HttpException, 51 PommaLabs::Thrower::HttpExceptionInfo, 55
CollectionItemsMinCount	ExceptionHandlers/ArgumentExceptionHandler.cs, 159
PommaLabs::Thrower::Validation::Validate ← Attribute, 157	ExceptionHandlers/ArgumentNullExceptionHandler.cs,
Contains	ExceptionHandlers/ArgumentOutOfRangeException ←
PommaLabs::Thrower::Reflection::FastMember::← ObjectAccessor, 74	Handler.cs, 164 ExceptionHandlers/GenericExceptionHandler.cs, 169
ContainsKey	170
PommaLabs::Thrower::Reflection::FastMember::← ObjectAccessor, 75	ExceptionHandlers/HttpExceptionHandler.cs, 170, 171 ExceptionHandlers/IndexOutOfRangeException Handler.cs, 172
СоруТо	ExceptionHandlers/InvalidOperationExceptionHandler.
PommaLabs::Thrower::Reflection::FastMember::←	cs, 175, 176
ObjectAccessor, 75	ExceptionHandlers/NotSupportedExceptionHandler.cs,
Count	176
PommaLabs::Thrower::Reflection::FastMember::← MemberSet, 69	ExceptionHandlers/ObjectDisposedExceptionHandler. cs, 177
PommaLabs::Thrower::Reflection::FastMember::←	
ObjectAccessor, 79	FormatValidationErrors
Create PommaLabs::Thrower::Reflection::FastMember::←	PommaLabs::Thrower::Validation::ObjectValidator,
ObjectAccessor, 75, 76 PommaLabs::Thrower::Reflection::FastMember::	81
TypeAccessor, 154	GetBaseType
Create < T >	PommaLabs::Thrower::Reflection::PortableType ←
PommaLabs::Thrower::Reflection::FastMember::	Info, 86
TypeAccessor, 154, 155	GetConstructors
CreateNew	PommaLabs::Thrower::Reflection::PortableType ←
PommaLabs::Thrower::Reflection::FastMember::	Info, 86
TypeAccessor, 155	GetConstructors< T >
CreateNewSupported	PommaLabs::Thrower::Reflection::PortableType ←
PommaLabs::Thrower::Reflection::FastMember::	Info, 86
TypeAccessor, 155	GetCustomAttributes
	$PommaLabs:: Thrower:: Reflection:: Portable Type \hookleftarrow$
DefaultErrorCode	Info, 87
PommaLabs::Thrower::HttpException, 51	GetEnumerator

PommaLabs::Thrower::Reflection::FastMember::↔ MemberSet, 69	PommaLabs::Thrower::RaiseArgumentOutOf ← RangeException, 116
PommaLabs::Thrower::Reflection::FastMember::← ObjectAccessor, 76	PommaLabs::Thrower::RaiseHttpException, 132.
GetGenericTypeArguments	PommaLabs::Thrower::RaiseInvalidOperation ←
PommaLabs::Thrower::Reflection::PortableType ←	Exception, 146
Info, 87	PommaLabs::Thrower::RaiseNotSupported ←
GetGenericTypeDefinition	Exception, 147
PommaLabs::Thrower::Reflection::PortableType ←	PommaLabs::Thrower::RaiseObjectDisposed↔
Info, 88	Exception, 149
GetHashCode	IfIsEqual
PommaLabs::Thrower::Reflection::FastMember::	PommaLabs::Thrower::ExceptionHandlers::←
ObjectAccessor, 77	ArgumentOutOfRangeExceptionHandler, 30,
GetInterfaces	31
PommaLabs::Thrower::Reflection::PortableType ←	
Info, 88	PommaLabs::Thrower::ExceptionHandlers::←
GetMembers	IndexOutOfRangeExceptionHandler, 56, 57
PommaLabs::Thrower::Reflection::FastMember::	PommaLabs::Thrower::RaiseArgumentOutOf Page 5 years in 110, 117
TypeAccessor, 155	RangeException, 116, 117
PommaLabs::Thrower::Reflection::FastMember::	PommaLabs::Thrower::RaiseIndexOutOfRange ←
TypeAccessor::RuntimeTypeAccessor, 151	Exception, 136
GetMembersSupported	IfIsEqual < TArg >
PommaLabs::Thrower::Reflection::FastMember::	PommaLabs::Thrower::ExceptionHandlers::←
TypeAccessor, 155	ArgumentOutOfRangeExceptionHandler, 31, 32
$PommaLabs:: Thrower:: Reflection:: Fast Member:: \leftarrow$	PommaLabs::Thrower::ExceptionHandlers::←
TypeAccessor::RuntimeTypeAccessor, 151	IndexOutOfRangeExceptionHandler, 57
GetPublicProperties	PommaLabs::Thrower::RaiseArgumentOutOf←
PommaLabs::Thrower::Reflection::PortableType ←	RangeException, 117, 118
Info, 88	PommaLabs::Thrower::RaiseIndexOutOfRange←
GetPublicProperties< T >	Exception, 136
PommaLabs::Thrower::Reflection::PortableType ←	IfIsGreater
Info, 89	PommaLabs::Thrower::ExceptionHandlers::←
GetPublicPropertyValue	ArgumentOutOfRangeExceptionHandler, 33
PommaLabs::Thrower::Reflection::PortableType ←	PommaLabs::Thrower::ExceptionHandlers::←
Info, 89	IndexOutOfRangeExceptionHandler, 58
	PommaLabs::Thrower::RaiseArgumentOutOf↔
HttpException	RangeException, 118, 119
PommaLabs::Thrower::HttpException, 49–51	PommaLabs::Thrower::RaiseIndexOutOfRange←
HttpException.cs, 178	Exception, 137
HttpExceptionInfo	IfIsGreater< TArg >
PommaLabs::Thrower::HttpExceptionInfo, 54	PommaLabs::Thrower::ExceptionHandlers::←
HttpStatusCode	ArgumentOutOfRangeExceptionHandler, 34
PommaLabs::Thrower::HttpException, 51	PommaLabs::Thrower::ExceptionHandlers::←
If	IndexOutOfRangeExceptionHandler, 58, 59
PommaLabs::Thrower::ExceptionHandlers::←	PommaLabs::Thrower::RaiseArgumentOutOf Page 5 years in 110, 100
ArgumentExceptionHandler, 14	RangeException, 119, 120
PommaLabs::Thrower::ExceptionHandlers::←	PommaLabs::Thrower::RaiseIndexOutOfRange ←
ArgumentNullExceptionHandler, 24	Exception, 137, 138
PommaLabs::Thrower::ExceptionHandlers::←	IfIsGreaterOrEqual
ArgumentOutOfRangeExceptionHandler, 30	PommaLabs::Thrower::ExceptionHandlers::←
PommaLabs::Thrower::ExceptionHandlers::←	ArgumentOutOfRangeExceptionHandler, 35
GenericExceptionHandler, 47	PommaLabs::Thrower::ExceptionHandlers::←
PommaLabs::Thrower::ExceptionHandlers::Http↔	IndexOutOfRangeExceptionHandler, 59, 60
ExceptionHandler, 52, 53	PommaLabs::Thrower::RaiseArgumentOutOf←
PommaLabs::Thrower::ExceptionHandlers::←	RangeException, 120, 121
ObjectDisposedExceptionHandler, 80	PommaLabs::Thrower::RaiseIndexOutOfRange←
PommaLabs::Thrower::RaiseArgumentException,	Exception, 138, 139
100, 101	IfIsGreaterOrEqual < TArg >

$PommaLabs:: Thrower:: Exception Handlers:: \leftarrow$	IfIsNotEqual < TArg >
ArgumentOutOfRangeExceptionHandler, 36,	$PommaLabs:: Thrower:: Exception Handlers:: \leftarrow$
37	ArgumentOutOfRangeExceptionHandler, 43
PommaLabs::Thrower::ExceptionHandlers::←	PommaLabs::Thrower::ExceptionHandlers::←
IndexOutOfRangeExceptionHandler, 60	IndexOutOfRangeExceptionHandler, 64, 65
PommaLabs::Thrower::RaiseArgumentOutOf RangeException, 121, 122	PommaLabs::Thrower::RaiseArgumentOutOf ← RangeException, 128, 129
$PommaLabs:: Thrower:: Raise Index Out Of Range \hookleftarrow$	PommaLabs::Thrower::RaiseIndexOutOfRange←
Exception, 139	Exception, 143, 144
IfIsLess	IfIsNotValid< TArg >
PommaLabs::Thrower::ExceptionHandlers::←	PommaLabs::Thrower::ExceptionHandlers::←
ArgumentOutOfRangeExceptionHandler, 37,	ArgumentExceptionHandler, 15
38	PommaLabs:: Thrower:: Raise Argument Exception,
PommaLabs::Thrower::ExceptionHandlers::←	101, 102
IndexOutOfRangeExceptionHandler, 61	IfIsNotValidEmailAddress
PommaLabs::Thrower::RaiseArgumentOutOf ←	PommaLabs::Thrower::ExceptionHandlers::←
RangeException, 123	ArgumentExceptionHandler, 16–18
$PommaLabs:: Thrower:: Raise Index Out Of Range \hookleftarrow$	PommaLabs::Thrower::RaiseArgumentException,
Exception, 140	103, 104
IfIsLess< TArg >	IfIsNotValidPhoneNumber
PommaLabs::Thrower::ExceptionHandlers::←	PommaLabs::Thrower::ExceptionHandlers::←
ArgumentOutOfRangeExceptionHandler, 38,	ArgumentExceptionHandler, 19
39	PommaLabs::Thrower::RaiseArgumentException,
PommaLabs::Thrower::ExceptionHandlers::←	105
IndexOutOfRangeExceptionHandler, 61, 62	IfIsNull< TArg >
PommaLabs::Thrower::RaiseArgumentOutOf —	PommaLabs::Thrower::ExceptionHandlers::←
RangeException, 124	ArgumentNullExceptionHandler, 24–27
PommaLabs::Thrower::RaiseIndexOutOfRange←	PommaLabs::Thrower::RaiseArgumentNull←
Exception, 140, 141	Exception, 110–112
IfIsLessOrEqual	IfIsNullOrEmpty
PommaLabs::Thrower::ExceptionHandlers::←	PommaLabs::Thrower::ExceptionHandlers::←
ArgumentOutOfRangeExceptionHandler, 39,	ArgumentExceptionHandler, 20
40	PommaLabs::Thrower::RaiseArgumentException,
PommaLabs::Thrower::ExceptionHandlers::←	106
IndexOutOfRangeExceptionHandler, 62	IfIsNullOrEmpty< Titem >
PommaLabs::Thrower::RaiseArgumentOutOf Page Evection 125	PommaLabs::Thrower::ExceptionHandlers::←
RangeException, 125	ArgumentExceptionHandler, 21
PommaLabs::Thrower::RaiseIndexOutOfRange← Exception, 141, 142	PommaLabs::Thrower::RaiseArgumentException, 106, 107
IfIsLessOrEqual < TArg >	IfIsNullOrWhiteSpace
PommaLabs::Thrower::ExceptionHandlers::←	PommaLabs::Thrower::ExceptionHandlers::
ArgumentOutOfRangeExceptionHandler, 40,	ArgumentExceptionHandler, 21, 22
41	PommaLabs::Thrower::RaiseArgumentException,
PommaLabs::Thrower::ExceptionHandlers::←	107
IndexOutOfRangeExceptionHandler, 63	IfNot
PommaLabs::Thrower::RaiseArgumentOutOf ←	PommaLabs::Thrower::ExceptionHandlers::←
RangeException, 126, 127	ArgumentExceptionHandler, 22
PommaLabs::Thrower::RaiseIndexOutOfRange ←	PommaLabs::Thrower::ExceptionHandlers::←
Exception, 142	ArgumentOutOfRangeExceptionHandler, 44
IfIsNotEqual	PommaLabs::Thrower::ExceptionHandlers::←
PommaLabs::Thrower::ExceptionHandlers::←	GenericExceptionHandler, 47
ArgumentOutOfRangeExceptionHandler, 42	PommaLabs::Thrower::ExceptionHandlers::Http↔
PommaLabs::Thrower::ExceptionHandlers::←	ExceptionHandler, 53
IndexOutOfRangeExceptionHandler, 64	PommaLabs::Thrower::RaiseArgumentException,
PommaLabs::Thrower::RaiseArgumentOutOf←	108
RangeException, 127, 128	PommaLabs::Thrower::RaiseArgumentOutOf←
PommaLabs::Thrower::RaiseIndexOutOfRange←	RangeException, 129, 130
Exception, 143	PommaLabs::Thrower::RaiseHttpException, 133

PommaLabs::Thrower::RaiseInvalidOperation← Exception, 146	IsValueType PommaLabs::Thrower::Reflection::PortableType←
PommaLabs::Thrower::RaiseNotSupported ←	Info, 96
Exception, 147 IsAbstract	IsValueType< T > PommaLabs::Thrower::Reflection::PortableType↔
PommaLabs::Thrower::Reflection::PortableType ← Info, 90	Info, 97
IsAbstract< T >	Keys
PommaLabs::Thrower::Reflection::PortableType← Info, 90	PommaLabs::Thrower::Reflection::FastMember::← ObjectAccessor, 79
IsAssignableFrom	
PommaLabs::Thrower::Reflection::PortableType ← Info, 90	Name PommaLabs::Thrower::Reflection::FastMember::←
IsClass	Member, 68
PommaLabs::Thrower::Reflection::PortableType ← Info, 91	NewWithMessage PommaLabs::Thrower::ExceptionHandlers::←
IsClass < T >	GenericExceptionHandler, 47
PommaLabs::Thrower::Reflection::PortableType ← Info, 92	PommaLabs::Thrower::ExceptionHandlers:: InvalidOperationExceptionHandler, 67
IsDefined	PommaLabs::Thrower::ExceptionHandlers::Not←
$PommaLabs:: Thrower:: Reflection:: Fast Member:: \hookleftarrow$	SupportedExceptionHandler, 71
Member, 67	NoCtorTypes
IsEnum	PommaLabs::Thrower::RaiseBase, 131
PommaLabs::Thrower::Reflection::PortableType ←	None
Info, 92 IsEnum< T >	PommaLabs::Thrower::Validation::EmailAddress ← Validator, 45
PommaLabs::Thrower::Reflection::PortableType↔	validator, 40
Info, 92	Obsolete/Raise.cs, 180
IsGenericType	Obsolete/RaiseArgumentException.cs, 192, 193
PommaLabs::Thrower::Reflection::PortableType ← Info, 93	Obsolete/RaiseArgumentNullException.cs, 196, 197 Obsolete/RaiseArgumentOutOfRangeException.cs, 198
IsGenericType< T >	Obsolete/RaiseHttpException.cs, 206, 207
PommaLabs::Thrower::Reflection::PortableType← Info, 93	Obsolete/RaiseIndexOutOfRangeException.cs, 208 Obsolete/RaiseInvalidOperationException.cs, 213
IsGenericTypeDefinition	Obsolete/RaiseNotSupportedException.cs, 214
PommaLabs::Thrower::Reflection::PortableType ← Info, 94	Obsolete/RaiseObjectDisposedException.cs, 215 Options
IsGenericTypeDefinition< T >	PommaLabs::Thrower::Validation::EmailAddress←
PommaLabs::Thrower::Reflection::PortableType ← Info, 94	Validator, 45
IsInstanceOf	Path
PommaLabs::Thrower::Reflection::PortableType←	PommaLabs::Thrower::Validation::ValidationError,
Info, 94	158
IsInterface	PommaLabs, 9
PommaLabs::Thrower::Reflection::PortableType ←	PommaLabs.Thrower, 9
Info, 95	PommaLabs.Thrower.ExceptionHandlers, 10
IsInterface < T >	PommaLabs.Thrower.ExceptionHandlers.Argument ←
PommaLabs::Thrower::Reflection::PortableType ←	ExceptionHandler, 13
Info, 95 IsPrimitive	PommaLabs.Thrower.ExceptionHandlers.Argument ← NullExceptionHandler, 23
PommaLabs::Thrower::Reflection::PortableType ←	PommaLabs.Thrower.ExceptionHandlers.Argument ←
Info, 95	OutOfRangeExceptionHandler, 28
IsPrimitive < T >	PommaLabs.Thrower.ExceptionHandlers.Generic←
$PommaLabs:: Thrower:: Reflection:: Portable Type \leftarrow$	ExceptionHandler< TException >, 46
Info, 96	PommaLabs. Thrower. Exception Handlers. Http Exception + the property of the
IsReadOnly	Handler, 52
PommaLabs::Thrower::Reflection::FastMember::← ObjectAccessor, 78	PommaLabs.Thrower.ExceptionHandlers.IndexOutOf← RangeExceptionHandler, 55

$PommaLabs. Thrower. Exception Handlers. Invalid \hookleftarrow$	lf, 24
OperationExceptionHandler, 65	IfIsNull< TArg >, 24–27
PommaLabs.Thrower.ExceptionHandlers.NotSupported ExceptionHandler, 70	 PommaLabs::Thrower::ExceptionHandlers::Argument- OutOfRangeExceptionHandler
PommaLabs.Thrower.ExceptionHandlers.Object ←	If, 30
DisposedExceptionHandler, 80	IfIsEqual, 30, 31
PommaLabs.Thrower.HttpException, 48	If $If SEqual < TArg >$, 31, 32
PommaLabs.Thrower.HttpExceptionInfo, 54	IfIsGreater, 33
PommaLabs.Thrower.Raise< TEx >, 97, 98	IfIsGreater< TArg >, 34
PommaLabs.Thrower.RaiseArgumentException, 98	IfIsGreaterOrEqual, 35
PommaLabs.Thrower.RaiseArgumentNullException, 108	IfIsGreaterOrEqual < TArg >, 36, 37 IfIsLess, 37, 38
$PommaLabs. Thrower. Raise Argument Out Of Range \hookleftarrow$	IfIsLess< TArg >, 38, 39
Exception, 113	IfIsLessOrEqual, 39, 40
PommaLabs.Thrower.RaiseBase, 130	IfIsLessOrEqual< TArg >, 40, 41
PommaLabs.Thrower.RaiseHttpException, 132	IfIsNotEqual, 42
PommaLabs.Thrower.RaiseIndexOutOfRangeException,	IfIsNotEqual< TArg >, 43
134	IfNot, 44
PommaLabs.Thrower.RaiseInvalidOperationException, 144	PommaLabs::Thrower::ExceptionHandlers::Generic ← ExceptionHandler
PommaLabs.Thrower.RaiseNotSupportedException,	If, 47
146	IfNot, 47
PommaLabs.Thrower.RaiseObjectDisposedException,	NewWithMessage, 47
148	PommaLabs::Thrower::ExceptionHandlers::Http↔
PommaLabs.Thrower.Reflection, 10	ExceptionHandler
PommaLabs.Thrower.Reflection.FastMember, 11	If, 52, 53
PommaLabs.Thrower.Reflection.FastMember.Member, 67	IfNot, 53
PommaLabs.Thrower.Reflection.FastMember.Member -	PommaLabs::Thrower::ExceptionHandlers::IndexOut OfRangeExceptionHandler
Set, 68	IfIsEqual, 56, 57
PommaLabs.Thrower.Reflection.FastMember.Object←	IfIsEqual < TArg >, 57
Accessor, 71	IfIsGreater, 58
PommaLabs.Thrower.Reflection.FastMember.Type←	IfIsGreater< TArg >, 58, 59
Accessor, 153	IfIsGreaterOrEqual, 59, 60
PommaLabs.Thrower.Reflection.FastMember.Type←	IfIsGreaterOrEqual < TArg >, 60
Accessor.RuntimeTypeAccessor, 149	IfIsLess, 61
PommaLabs.Thrower.Reflection.PortableTypeInfo, 84	IfIsLess< TArg >, 61, 62
PommaLabs.Thrower.ThrowerException, 152	IfIsLessOrEqual, 62
PommaLabs.Thrower.Validation, 11	IfIsLessOrEqual < TArg >, 63
Pomma Labs. Thrower. Validation. Email Address Validator,	IfIsNotEqual, 64
45	IfIsNotEqual < TArg >, 64, 65
PommaLabs.Thrower.Validation.ObjectValidator, 80	$PommaLabs:: Thrower:: Exception Handlers:: Invalid {\leftarrow}$
PommaLabs.Thrower.Validation.PhoneNumber←	OperationExceptionHandler
Validator, 83	NewWithMessage, 67
PommaLabs.Thrower.Validation.ValidateAttribute, 156	PommaLabs::Thrower::ExceptionHandlers::Not ←
PommaLabs.Thrower.Validation.ValidationError, 158	SupportedExceptionHandler
PommaLabs::Thrower::ExceptionHandlers::Argument ←	NewWithMessage, 71
ExceptionHandler	PommaLabs::Thrower::ExceptionHandlers::Object←
If, 14	DisposedExceptionHandler
IfIsNotValid< TArg >, 15	If, 80
IfIsNotValidEmailAddress, 16–18	PommaLabs::Thrower::HttpException DefaultErrorCode, 51
IfIsNotValidPhoneNumber, 19	DefaultUserMessage, 51
IfIsNullOrEmpty, 20 IfIsNullOrEmpty< TItem >, 21	ErrorCode, 51
IfIsNullOrWhiteSpace, 21, 22	HttpException, 49–51
IfNot, 22	HttpStatusCode, 51
PommaLabs::Thrower::ExceptionHandlers::Argument ←	UserMessage, 51
NullExceptionHandler	PommaLabs::Thrower::HttpExceptionInfo
1 7 7 7 7	

ErrorCode, 55	lf, 149
HttpExceptionInfo, 54	PommaLabs::Thrower::Reflection::FastMember::
UserMessage, 55	Member
PommaLabs::Thrower::RaiseArgumentException	IsDefined, 67
If, 100, 101	Name, 68
IfIsNotValid< TArg >, 101, 102	Type, 68
IfIsNotValidEmailAddress, 103, 104	PommaLabs::Thrower::Reflection::FastMember::←
IfIsNotValidPhoneNumber, 105	MemberSet
IfIsNullOrEmpty, 106	Count, 69
IfIsNullOrEmpty< TItem >, 106, 107	GetEnumerator, 69
IfIsNullOrWhiteSpace, 107	this[int index], 69
IfNot, 108	PommaLabs::Thrower::Reflection::FastMember::
PommaLabs::Thrower::RaiseArgumentNullException	ObjectAccessor
IfIsNull< TArg >, 110–112	Add, 73, 74
PommaLabs::Thrower::RaiseArgumentOutOfRange←	Clear, 74
Exception	Contains, 74
lf, 116	ContainsKey, 75
IfIsEqual, 116, 117	CopyTo, 75
IfIsEqual < TArg >, 117, 118	Count, 79
IfIsGreater, 118, 119	Create, 75, 76
IfIsGreater< TArg >, 119, 120	Equals, 76
IfIsGreaterOrEqual, 120, 121	GetEnumerator, 76
IfIsGreaterOrEqual < TArg >, 121, 122	GetHashCode, 77
IfIsLess, 123	IsReadOnly, 78
IfIsLess< TArg >, 124	Keys, 79
IfIsLessOrEqual, 125	Remove, 77
IfIsLessOrEqual< TArg >, 126, 127	Target, 79
IfIsNotEqual, 127, 128	this[string name], 79
IfIsNotEqual < TArg >, 128, 129	ToString, 78
IfNot, 129, 130	TryGetValue, 78
PommaLabs::Thrower::RaiseBase	Values, 79
NoCtorTypes, 131	PommaLabs::Thrower::Reflection::FastMember::Type
StrCtorType, 131	Accessor
	Create, 154
StrExCtorTypes, 132 PommaLabs::Thrower::RaiseHttpException	Create < T >, 154, 155
If, 132, 133	CreateNew, 155
	CreateNewSupported, 155
IfNot, 133 PommaLabs::Thrower::RaiseIndexOutOfRange↔	• •
•	GetMembers, 155 GetMembersSupported, 155
Exception	
IfIsEqual, 136	this[object target, string name], 156 PommaLabs::Thrower::Reflection::FastMember::Type←
IfIsEqual < TArg >, 136	••
IfIsGreater, 137	Accessor::RuntimeTypeAccessor
IfIsGreater< TArg >, 137, 138	GetMembers, 151
IfIsGreaterOrEqual, 138, 139	GetMembersSupported, 151
IfIsGreaterOrEqual< TArg >, 139	Type, 151
IfIsLess, 140	PommaLabs::Thrower::Reflection::PortableTypeInfo
IfIsLess< TArg >, 140, 141	GetBaseType, 86
IfIsLessOrEqual, 141, 142	GetConstructors, 86
IfIsLessOrEqual< TArg >, 142	GetConstructors< T >, 86
IfIsNotEqual, 143	GetCustomAttributes, 87
IfIsNotEqual < TArg >, 143, 144	GetGenericTypeArguments, 87
PommaLabs::Thrower::RaiseInvalidOperationException	GetGenericTypeDefinition, 88
If, 146	GetInterfaces, 88
IfNot, 146	GetPublicProperties, 88
PommaLabs::Thrower::RaiseNotSupportedException	GetPublicProperties< T >, 89
If, 147	GetPublicPropertyValue, 89
IfNot, 147	IsAbstract, 90
PommaLabs::Thrower::RaiseObjectDisposedException	IsAbstract< T >, 90

IsAssignableFrom, 90	PommaLabs::Thrower::Validation::ObjectValidator,
IsClass, 91	83
IsClass< T >, 92	
IsEnum, 92	StrCtorType
IsEnum $<$ T $>$, 92	PommaLabs::Thrower::RaiseBase, 131
IsGenericType, 93	StrExCtorTypes
IsGenericType< T >, 93	PommaLabs::Thrower::RaiseBase, 132
IsGenericTypeDefinition, 94	
IsGenericTypeDefinition< T >, 94	Target
IsInstanceOf, 94	PommaLabs::Thrower::Reflection::FastMember::←
IsInterface, 95	ObjectAccessor, 79
IsInterface < T >, 95	this[int index]
IsPrimitive, 95	PommaLabs::Thrower::Reflection::FastMember::←
IsPrimitive < T >, 96	MemberSet, 69
IsValueType, 96	this[object target, string name]
IsValueType< T >, 97	PommaLabs::Thrower::Reflection::FastMember::←
PommaLabs::Thrower::Validation::EmailAddress←	TypeAccessor, 156
Validator	this[string name]
AllowInternational, 45	PommaLabs::Thrower::Reflection::FastMember::←
AllowTopLevelDomains, 45	ObjectAccessor, 79
None, 45	ThrowerException.cs, 239
Options, 45	ToString
Validate, 45	PommaLabs::Thrower::Reflection::FastMember::←
PommaLabs::Thrower::Validation::ObjectValidator	ObjectAccessor, 78
FormatValidationErrors, 81	TryGetValue
RootPlaceholder, 83	PommaLabs::Thrower::Reflection::FastMember::←
Validate, 81	ObjectAccessor, 78
PommaLabs::Thrower::Validation::PhoneNumber←	Type
Validator	PommaLabs::Thrower::Reflection::FastMember::←
Validate, 83	Member, 68
PommaLabs::Thrower::Validation::ValidateAttribute	PommaLabs::Thrower::Reflection::FastMember::←
CollectionItemsMaxCount, 157	TypeAccessor::RuntimeTypeAccessor, 151
CollectionItemsMinCount, 157	UserMessage
Enumerable, 157	PommaLabs::Thrower::HttpException, 51
EnumerableItemsRequired, 157	PommaLabs::Thrower::HttpExceptionInfo, 55
Required, 158	TommacabsTillowerTitpcxceptioninio, 33
PommaLabs::Thrower::Validation::ValidationError	Validate
Path, 158	PommaLabs::Thrower::Validation::EmailAddress←
Reason, 158	Validator, 45
D: 404	PommaLabs::Thrower::Validation::ObjectValidator,
Raise.cs, 191	81
RaiseGeneric.cs, 216	PommaLabs::Thrower::Validation::PhoneNumber -
Reason	Validator, 83
PommaLabs::Thrower::Validation::ValidationError, 158	Validation/EmailAddressValidator.cs, 240, 241
Reflection/FastMember/CallSiteCache.cs, 218	Validation/ObjectValidator.cs, 244, 245
	Validation/PhoneNumberValidator.cs, 247
Reflection/FastMember/MemberSet.cs, 219, 220	Validation/ValidateAttribute.cs, 248
Reflection/FastMember/ObjectAccessor.cs, 221 Reflection/FastMember/ObjectReader.cs, 224	Validation/ValidationError.cs, 249
Reflection/FastMember/TypeAccessor.cs, 228	Values
Reflection/PortableSerializationAttributes.cs, 233	PommaLabs::Thrower::Reflection::FastMember::
	ObjectAccessor, 79
Reflection/PortableTypeInfo.cs, 234	
Remove PommaLabs::Thrower::Reflection::FastMember::	
ObjectAccessor, 77	
Required	
PommaLabs::Thrower::Validation::Validate ←	
Attribute, 158	
RootPlaceholder	
riodi additionali	