

# **FunCs**

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# Table of Contents

Namespace Index .....	2
Hierarchical Index .....	3
Class Index .....	4
ExtensionMethods .....	5
FunCs .....	6
Class Documentation.....	7
FunCs.DoubleF.....	7
FunCs.ExpertMatchF.....	9
FunCs.ExpertMatchF<T>.....	12
ExtensionMethods.IEnumerable<double> .....	13
ExtensionMethods.IEnumerable<int> .....	14
ExtensionMethods.IEnumerable<OptionF<T>> .....	15
ExtensionMethods.IEnumerable<string> .....	16
FunCs.IntF .....	18
FunCs.OptionF<T> .....	20
ExtensionMethods.string .....	23
Index .....	24



# Namespace Index

## Packages

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

<b>ExtensionMethods</b>	.....5
<b>FunCs</b>	.....6

# Hierarchical Index

## Class Hierarchy

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

FunCs.DoubleF .....	7
FunCs.ExpertMatchF .....	9
FunCs.ExpertMatchF<T> .....	12
ExtensionMethods.IEnumerable<double> .....	13
ExtensionMethods.IEnumerable<int> .....	14
ExtensionMethods.IEnumerable<OptionF<T>> .....	15
ExtensionMethods.IEnumerable<string> .....	16
IEnumerable<T>	
FunCs.OptionF<T> .....	20
FunCs.IntF .....	18
ExtensionMethods.string .....	23

# Class Index

## Class List

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

<b>FunCs.DoubleF (Represents an immutable double-precision floating-point number )</b>	<b>7</b>
<b>FunCs.ExpertMatchF (The class that implements different pattern matching cases on single lists or lists of facts. General pattern matching is performed using the Rete algorithm implemented in the Clips expert system tool )</b>	<b>9</b>
<b>FunCs.ExpertMatchF&lt;T&gt; (The class that implements pattern matching on options )</b>	<b>12</b>
<b>ExtensionMethods.IEnumerable&lt;double&gt;</b>	<b>13</b>
<b>ExtensionMethods.IEnumerable&lt;int&gt;</b>	<b>14</b>
<b>ExtensionMethods.IEnumerable&lt;OptionF&lt;T&gt;&gt;</b>	<b>15</b>
<b>ExtensionMethods.IEnumerable&lt;string&gt;</b>	<b>16</b>
<b>FunCs.IntF (Represents an immutable 32-bit signed integer )</b>	<b>18</b>
<b>FunCs.OptionF&lt;T&gt; (The option type is used when an actual value may not exist. An option has an underlying type and can hold a value of that type, i.e. Some(value), or it may contain no value, i.e. None )</b>	<b>20</b>
<b>ExtensionMethods.string</b>	<b>23</b>

# Namespace Documentation

## ExtensionMethods Namespace Reference

### Classes

- class **IEnumerable<double>**
- class **IEnumerable<int>**
- class **IEnumerable<OptionF<T>>**
- class **IEnumerable<string>**
- class **string**



## FunCs Namespace Reference

### Classes

- struct **DoubleF**  
*Represents an immutable double-precision floating-point number.*
- class **ExpertMatchF**  
*The class that implements different pattern matching cases on single lists or lists of facts. General pattern matching is performed using the Rete algorithm implemented in the Clips expert system tool.*
- class **ExpertMatchF<T>**  
*The class that implements pattern matching on options.*
- struct **IntF**  
*Represents an immutable 32-bit signed integer.*
- class **OptionF<T>**  
*The option type is used when an actual value may not exist. An option has an underlying type and can hold a value of that type, i.e. Some(value), or it may contain no value, i.e. None.*

# Class Documentation

## FunCs.DoubleF Struct Reference

Represents an immutable double-precision floating-point number.

### Public Member Functions

- **DoubleF** (double value)  
*Initializes a new instance of the **DoubleF** structure.*
- override string **ToString** ()  
*Converts the numeric value of this instance to its equivalent string representation.*

### Static Public Member Functions

- static implicit **operator double** (**DoubleF** d)  
***DoubleF** can be implicitly converted to double so that it can be used for all the operations defined for double.*

### Properties

- double **Value** [get]  
*The read-only double value.*

---

## Detailed Description

Represents an immutable double-precision floating-point number.

---

## Constructor & Destructor Documentation

### FunCs.DoubleF.DoubleF (double value)

Initializes a new instance of the **DoubleF** structure.

#### Parameters:

value	The real value used for initialization
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---

## Member Function Documentation

### static implicit FunCs.DoubleF.operator double (**DoubleF** d) [static]

**DoubleF** can be implicitly converted to double so that it can be used for all the operations defined for double.

### **override string FunCs.DoubleF.ToString ()**

Converts the numeric value of this instance to its equivalent string representation.

---

## **Property Documentation**

### **double FunCs.DoubleF.Value [get]**

The read-only double value.

## FunCs.ExpertMatchF Class Reference

The class that implements different pattern matching cases on single lists or lists of facts. General pattern matching is performed using the Rete algorithm implemented in the Clips expert system tool.

### Public Member Functions

- **ExpertMatchF** (string list)  
*Initializes a new instance of the **ExpertMatchF** class.*
- **ExpertMatchF** (List< string > factList)  
*Initializes a new instance of the **ExpertMatchF** class.*
- bool **MatchListEmpty** ()  
*Returns true if the list is empty.*
- bool **MatchListHeadTail** (out string head, out List< string > tail)  
*Identifies the first item of the list and the rest of the list. It returns false if the list is empty.*
- bool **MatchListGeneral** (string pattern, out Dictionary< string, string > results)  
*Matches an arbitrary pattern on the list of facts. It returns false if the pattern cannot be matched on the facts.*
- bool **MatchMultiple** (List< string > patterns, out List< Dictionary< string, string >> results)  
*Matches arbitrary patterns on the list of facts. It returns false if the patterns cannot be matched on the facts.*
- bool **MatchMultiple** (List< string > patterns, string constraints, out List< Dictionary< string, string >> results)  
*Matches arbitrary patterns on the list of facts. It returns false if the pattern cannot be matched on the facts.*

---

### Detailed Description

The class that implements different pattern matching cases on single lists or lists of facts. General pattern matching is performed using the Rete algorithm implemented in the Clips expert system tool.

---

### Constructor & Destructor Documentation

#### FunCs.ExpertMatchF.ExpertMatchF (string list)

Initializes a new instance of the **ExpertMatchF** class.

##### Parameters:

<i>list</i>	A list of string items that will be used for pattern matching. To increase clarity and to stress that it is a list, it is recommended to enclose the items within square
-------------	--

	brackets
--	----------

### **FunCs.ExpertMatchF.ExpertMatchF (List< string > *factList*)**

Initializes a new instance of the **ExpertMatchF** class.

#### **Parameters:**

<i>factList</i>	A list of facts that will be used for pattern matching, where each fact is a list of string items. The facts are general and should not contain square brackets.
-----------------	--

## **Member Function Documentation**

### **bool FunCs.ExpertMatchF.MatchListEmpty ()**

Returns true if the list is empty.

### **bool FunCs.ExpertMatchF.MatchListHeadTail (out string *head*, out List< string > *tail*)**

Identifies the first item of the list and the rest of the list. It returns false if the list is empty.

#### **Parameters:**

<i>head</i>	The head of the list, i.e. the first item
<i>tail</i>	The rest of the list, starting with the second item

### **bool FunCs.ExpertMatchF.MatchListGeneral (string *pattern*, out Dictionary< string, string > *results*)**

Matches an arbitrary pattern on the list of facts. It returns false if the pattern cannot be matched on the facts.

#### **Parameters:**

<i>pattern</i>	A pattern containing items to be matched and variables, identified by ? for a single word or \$? for multiple words, e.g. ?a or \$?b. At least one variable must be named in the pattern
<i>results</i>	A dictionary that contains the values of the variables, e.g. results["?a"] contains the value of that variable after the pattern matching

### **bool FunCs.ExpertMatchF.MatchMultiple (List< string > *patterns*, out List< Dictionary< string, string >> *results*)**

Matches arbitrary patterns on the list of facts. It returns false if the patterns cannot be matched on the facts.

#### **Parameters:**

<i>patterns</i>	A list of patterns containing items to be matched and variables, identified by ? for a single word or \$? for multiple words, e.g. ?a or \$?b. At least one variable must be named in the patterns
<i>results</i>	A dictionary that contains the values of the variables, e.g. results["?a"] contains the value of that variable after the pattern matching

**bool FunCs.ExpertMatchF.MatchMultiple (List< string > *patterns*, string *constraints*,  
out List< Dictionary< string, string >> *results*)**

Matches arbitrary patterns on the list of facts. It returns false if the pattern cannot be matched on the facts.

**Parameters:**

<i>patterns</i>	A list of patterns containing items to be matched and variables, identified by ? for a single word or \$? for multiple words, e.g. ?a or \$?b. At least one variable must be named in the patterns
<i>constraints</i>	A logical expression which contains the conditions that the matched variable values must satisfy. The Clips language syntax and operators are used to describe the constraints
<i>results</i>	A dictionary that contains the values of the variables, e.g. results["?a"] contains the value of that variable after the pattern matching

## FunCs.ExpertMatchF<T> Class Reference

The class that implements pattern matching on options.

### Public Member Functions

- **ExpertMatchF** (OptionF< T > option)  
*Initializes a new instance of the **ExpertMatchF** class.*
- **MatchOptionSome** (out T some)  
*Returns true if the option contains a value and false otherwise.*
- **MatchOptionNone** ()  
*Returns true if the option does not contain a value and false otherwise.*

---

### Detailed Description

The class that implements pattern matching on options.

---

### Member Function Documentation

#### FunCs.ExpertMatchF<T>.ExpertMatchF (OptionF< T > option)

Initializes a new instance of the **ExpertMatchF** class.

##### Parameters:

<i>option</i>	An option object that will be used for pattern matching
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#### bool FunCs.ExpertMatchF<T>.MatchOptionSome (out T some)

Returns true if the option contains a value and false otherwise.

##### Parameters:

<i>some</i>	The value of the option
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#### bool FunCs.ExpertMatchF<T>.MatchOptionNone ()

Returns true if the option does not contain a value and false otherwise.

## ExtensionMethods.IEnumerable<double> Class Reference

### Public Member Functions

- **string ToStringF** (int noDecimals=3)  
*Converts the collection of doubles to a string representation.*
- **bool MatchF** (out double head, out IEnumerable< double > tail)  
*Identifies the first item of the list and the rest of the list. It returns false if the list is empty.*

---

### Member Function Documentation

**string ExtensionMethods.IEnumerable<double>.ToStringF** (int *noDecimals* = 3)

Converts the collection of doubles to a string representation.

**Parameters:**

<i>noDecimals</i>	The number of decimals places to be used when formatting the collection elements
-------------------	--

**bool ExtensionMethods.IEnumerable<double>.MatchF** (out double *head*, out IEnumerable< double > *tail*)

Identifies the first item of the list and the rest of the list. It returns false if the list is empty.

**Parameters:**

<i>head</i>	The head of the list, i.e. the first item
<i>tail</i>	The rest of the list, starting with the second item



## ExtensionMethods.IEnumerable<int> Class Reference

### Public Member Functions

- **string ToStringF ()**  
*Converts the collection of integers to a string representation.*
- **bool MatchF (out int head, out IEnumerable< int > tail)**  
*Identifies the first item of the list and the rest of the list. It returns false if the list is empty.*

---

### Member Function Documentation

#### **string ExtensionMethods.IEnumerable<int>.ToStringF ()**

Converts the collection of integers to a string representation.

#### **bool ExtensionMethods.IEnumerable<int>.MatchF (out int *head*, out IEnumerable< int > *tail*)**

Identifies the first item of the list and the rest of the list. It returns false if the list is empty.

##### **Parameters:**

<i>head</i>	The head of the list, i.e. the first item
<i>tail</i>	The rest of the list, starting with the second item

## ExtensionMethods.IEnumerable<OptionF<T>> Class Reference

### Public Member Functions

- `IEnumerable< T > WhereSome< T > ()`  
*Filters a sequence of OptionF objects and returns the list of values of the objects which are Some.*

---

### Member Function Documentation

#### `IEnumerable<T> ExtensionMethods.IEnumerable<OptionF<T>>.WhereSome< T > ()`

Filters a sequence of OptionF objects and returns the list of values of the objects which are Some.

## ExtensionMethods.IEnumerable<string> Class Reference

### Public Member Functions

- **string ToStringF ()**  
*Converts the collection of strings to a string representation.*
- **bool MatchF (out string head, out IEnumerable< string > tail)**  
*Identifies the first item of the list and the rest of the list. It returns false if the list is empty.*
- **bool MatchF (string pattern)**  
*Matches an empty pattern on the list.*
- **bool MatchF (string pattern, out string var1)**  
*Matches an arbitrary pattern on the list. It returns false if the pattern cannot be matched.*
- **bool MatchF (string pattern, out string var1, out string var2)**  
*Matches an arbitrary pattern on the list. It returns false if the pattern cannot be matched.*
- **bool MatchF (string pattern, out string var1, out string var2, out string var3)**  
*Matches an arbitrary pattern on the list. It returns false if the pattern cannot be matched.*
- **bool MatchF (string pattern, out string var1, out string var2, out string var3, out string var4)**  
*Matches an arbitrary pattern on the list. It returns false if the pattern cannot be matched.*

---

### Member Function Documentation

#### **string ExtensionMethods.IEnumerable<string>.ToStringF ()**

Converts the collection of strings to a string representation.

#### **bool ExtensionMethods.IEnumerable<string>.MatchF (out string head, out IEnumerable< string > tail)**

Identifies the first item of the list and the rest of the list. It returns false if the list is empty.

##### **Parameters:**

<i>head</i>	The head of the list, i.e. the first item
<i>tail</i>	The rest of the list, starting with the second item

#### **bool ExtensionMethods.IEnumerable<string>.MatchF (string pattern)**

Matches an empty pattern on the list.

##### **Parameters:**

<i>pattern</i>	A pattern containing items to be matched
----------------	--

**bool ExtensionMethods.IEnumerable<string>.MatchF (string *pattern*, out string *var1*)**

Matches an arbitrary pattern on the list. It returns false if the pattern cannot be matched.

**Parameters:**

<i>pattern</i>	A pattern with one variable
<i>var1</i>	The value of the first variable after pattern matching

**bool ExtensionMethods.IEnumerable<string>.MatchF (string *pattern*, out string *var1*, out string *var2*)**

Matches an arbitrary pattern on the list. It returns false if the pattern cannot be matched.

**Parameters:**

<i>pattern</i>	A pattern with two variables
<i>var1</i>	The value of the first variable after pattern matching
<i>var2</i>	The value of the second variable after pattern matching

**bool ExtensionMethods.IEnumerable<string>.MatchF (string *pattern*, out string *var1*, out string *var2*, out string *var3*)**

Matches an arbitrary pattern on the list. It returns false if the pattern cannot be matched.

**Parameters:**

<i>pattern</i>	A pattern with three variables
<i>var1</i>	The value of the first variable after pattern matching
<i>var2</i>	The value of the second variable after pattern matching
<i>var3</i>	The value of the third variable after pattern matching

**bool ExtensionMethods.IEnumerable<string>.MatchF (string *pattern*, out string *var1*, out string *var2*, out string *var3*, out string *var4*)**

Matches an arbitrary pattern on the list. It returns false if the pattern cannot be matched.

**Parameters:**

<i>pattern</i>	A pattern with four variables
<i>var1</i>	The value of the first variable after pattern matching
<i>var2</i>	The value of the second variable after pattern matching
<i>var3</i>	The value of the third variable after pattern matching
<i>var4</i>	The value of the fourth variable after pattern matching

## FunCs.IntF Struct Reference

Represents an immutable 32-bit signed integer.

### Public Member Functions

- **IntF** (int value)  
*Initializes a new instance of the **IntF** structure.*
- override string **ToString** ()  
*Converts the numeric value of this instance to its equivalent string representation.*

### Static Public Member Functions

- static implicit **operator int** (**IntF** i)  
***IntF** can be implicitly converted to int so that it can be used for all the operations defined for int.*

### Properties

- int **Value** [get]  
*The read-only int value.*

---

## Detailed Description

Represents an immutable 32-bit signed integer.

---

## Constructor & Destructor Documentation

### FunCs.IntF.IntF (int value)

Initializes a new instance of the **IntF** structure.

#### Parameters:

value	The integer value used for initialization
-------	---

---

## Member Function Documentation

### static implicit FunCs.IntF.operator int (IntF i)[static]

**IntF** can be implicitly converted to int so that it can be used for all the operations defined for int.

### override string FunCs.IntF.ToString ()

Converts the numeric value of this instance to its equivalent string representation.

---

## Property Documentation

**int FunCs.IntF.Value** [get]

The read-only int value.

## FunCs.OptionF<T> Class Reference

The option type is used when an actual value may not exist. An option has an underlying type and can hold a value of that type, i.e. `Some(value)`, or it may contain no value, i.e. `None`. Inherits `IEnumerable<T>`.

### Public Member Functions

- `IEnumerator< T > GetEnumerator ()`  
*Returns an enumerator that iterates through the collection.*
- `override string ToString ()`  
*Converts the option to a string representation: `Some(value)` or `None`.*
- `override bool Equals (object obj)`  
*Determines whether the specified option object is equal to the current option object.*
- `OptionF< R > Select< R > (Func< T, R > f)`  
*Projects the current type of option into a new type of option. An equivalent name in other functional programming languages is `Map`.*
- `OptionF< R > SelectMany< R > (Func< T, OptionF< R >> f)`  
*Projects the current type of option into a new type of option and flattens the result. An equivalent name in other functional programming languages is `Bind`.*
- `override int GetHashCode ()`  
*Returns the hash code of the current option object.*
- `bool MatchSomeF< T > (out T some)`  
*Returns true if the option contains a value and false otherwise.*
- `bool MatchNoneF< T > ()`  
*Returns true if the option does not contain a value and false otherwise.*

### Static Public Member Functions

- `static OptionF< T > Some (T value)`  
*Creates an option that has a given value.*
- `static OptionF< T > None ()`  
*Creates an option with no value.*

### Properties

- `bool IsSome [get]`  
*Returns true if the option has a value and false if it has no value.*
- `bool IsNone [get]`  
*Returns true if the option has no value and false if it has a value.*

- **T Value** [get]  
*Returns the value of the option. It throws an exception if the option has no value.*

---

## Detailed Description

The option type is used when an actual value may not exist. An option has an underlying type and can hold a value of that type, i.e. Some(value), or it may contain no value, i.e. None.

---

## Member Function Documentation

**static OptionF<T> FunCs.OptionF<T>.Some (T value) [static]**

Creates an option that has a given value.

### Parameters:

value	A non-null value
-------	------------------

**static OptionF<T> FunCs.OptionF<T>.None () [static]**

Creates an option with no value.

**IEnumerator<T> FunCs.OptionF<T>.GetEnumerator ()**

Returns an enumerator that iterates through the collection.

**override string FunCs.OptionF<T>.ToString ()**

Converts the option to a string representation: Some(value) or None.

**override bool FunCs.OptionF<T>.Equals (object obj)**

Determines whether the specified option object is equal to the current option object.

**OptionF<R> FunCs.OptionF<T>.Select< R > (Func< T, R > f)**

Projects the current type of option into a new type of option. An equivalent name in other functional programming languages is Map.

### Template Parameters:

R	The type of the option returned by the transform function.
---	--

### Parameters:

f	A transform function to apply to the current option.
---	--



**OptionF<R> FunCs.OptionF<T>.SelectMany< R > (Func< T, OptionF< R >> f)**

Projects the current type of option into a new type of option and flattens the result. An equivalent name in other functional programming languages is Bind.

**Template Parameters:**

<i>R</i>	The type of the option returned by the transform function.
----------	--

**Parameters:**

<i>f</i>	A transform function to apply to the current option.
----------	--

**override int FunCs.OptionF<T>.GetHashCode ()**

Returns the hash code of the current option object.

**bool FunCs.OptionF<T>.MatchSomeF< T > (out T some)**

Returns true if the option contains a value and false otherwise.

**Parameters:**

<i>some</i>	The value of the option
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**bool FunCs.OptionF<T>.MatchNoneF< T > ()**

Returns true if the option does not contain a value and false otherwise.

---

## Property Documentation

**bool FunCs.OptionF<T>.IsSome [get]**

Returns true if the option has a value and false if it has no value.

**bool FunCs.OptionF<T>.IsNone [get]**

Returns true if the option has no value and false if it has a value.

**T FunCs.OptionF<T>.Value [get]**

Returns the value of the option. It throws an exception if the option has no value.

## ExtensionMethods.string Class Reference

### Public Member Functions

- `IEnumerable< int > ToIntEnumF ()`
  - `IEnumerable< double > ToDoubleEnumF ()`  
*Converts a string that represents a list of real numbers into the corresponding IEnumerable(double).*
  - `IEnumerable< string > ToStringEnumF (char separator=' ')`  
*Converts a string that represents a list of strings into the corresponding IEnumerable(string).*
- 

### Member Function Documentation

#### `IEnumerable<int> ExtensionMethods.string.ToIntEnumF ()`

Converts a string that represents a list of integers into the corresponding IEnumerable(int).

#### `IEnumerable<double> ExtensionMethods.string.ToDoubleEnumF ()`

Converts a string that represents a list of real numbers into the corresponding IEnumerable(double).

#### `IEnumerable<string> ExtensionMethods.string.ToStringEnumF (char separator = ' ')`

Converts a string that represents a list of strings into the corresponding IEnumerable(string).

##### Parameters:

<i>separator</i>	A separator used to split the list
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# Index

- DoubleF
  - FunCs.DoubleF, 7
- Equals
  - FunCs.OptionF\_T, 21
- ExpertMatchF
  - FunCs.ExpertMatchF, 9, 10
  - FunCs.ExpertMatchF\_T, 12
- ExtensionMethods, 5
- ExtensionMethods.IEnumerable\_double, 13
  - MatchF, 13
  - ToStringF, 13
- ExtensionMethods.IEnumerable\_int, 14
  - MatchF, 14
  - ToStringF, 14
- ExtensionMethods.IEnumerable\_OptionF\_T, 15
  - WhereSome< T >, 15
- ExtensionMethods.IEnumerable\_string, 16
  - MatchF, 16, 17
  - ToStringF, 16
- ExtensionMethods.string, 23
  - ToDoubleEnumF, 23
  - ToIntEnumF, 23
  - ToStringEnumF, 23
- FunCs, 6
- FunCs.DoubleF, 7
  - DoubleF, 7
  - operator double, 7
  - ToString, 8
  - Value, 8
- FunCs.ExpertMatchF, 9
  - ExpertMatchF, 9, 10
  - MatchListEmpty, 10
  - MatchListGeneral, 10
  - MatchListHeadTail, 10
  - MatchMultiple, 10, 11
- FunCs.ExpertMatchF\_T, 12
  - ExpertMatchF, 12
  - MatchOptionNone, 12
  - MatchOptionSome, 12
- FunCs.IntF, 18
  - IntF, 18
  - operator int, 18
  - ToString, 18
  - Value, 19
- FunCs.OptionF\_T, 20
  - Equals, 21
  - GetEnumerator, 21
  - GetHashCode, 22
  - IsNone, 22
  - IsSome, 22
  - MatchNoneF< T >, 22
  - MatchSomeF< T >, 22
  - None, 21
  - Select< R >, 21
  - SelectMany< R >, 22
- Some, 21
- ToString, 21
- Value, 22
- GetEnumerator
  - FunCs.OptionF\_T, 21
- GetHashCode
  - FunCs.OptionF\_T, 22
- IntF
  - FunCs.IntF, 18
- IsNone
  - FunCs.OptionF\_T, 22
- IsSome
  - FunCs.OptionF\_T, 22
- MatchF
  - ExtensionMethods.IEnumerable\_double, 13
  - ExtensionMethods.IEnumerable\_int, 14
  - ExtensionMethods.IEnumerable\_string, 16, 17
- MatchListEmpty
  - FunCs.ExpertMatchF, 10
- MatchListGeneral
  - FunCs.ExpertMatchF, 10
- MatchListHeadTail
  - FunCs.ExpertMatchF, 10
- MatchMultiple
  - FunCs.ExpertMatchF, 10, 11
- MatchNoneF< T >
  - FunCs.OptionF\_T, 22
- MatchOptionNone
  - FunCs.ExpertMatchF\_T, 12
- MatchOptionSome
  - FunCs.ExpertMatchF\_T, 12
- MatchSomeF< T >
  - FunCs.OptionF\_T, 22
- None
  - FunCs.OptionF\_T, 21
- operator double
  - FunCs.DoubleF, 7
- operator int
  - FunCs.IntF, 18
- Select< R >
  - FunCs.OptionF\_T, 21
- SelectMany< R >
  - FunCs.OptionF\_T, 22
- Some
  - FunCs.OptionF\_T, 21
- ToDoubleEnumF
  - ExtensionMethods.string, 23
- ToIntEnumF
  - ExtensionMethods.string, 23
- ToString
  - FunCs.DoubleF, 8
  - FunCs.IntF, 18
  - FunCs.OptionF\_T, 21
- ToStringEnumF
  - ExtensionMethods.string, 23

ToStringF	FunCs.IntF, 19
ExtensionMethods.IEnumerable_double, 13	FunCs.OptionF_T, 22
ExtensionMethods.IEnumerable_int, 14	WhereSome< T >
ExtensionMethods.IEnumerable_string, 16	ExtensionMethods.IEnumerable_OptionF_T
Value	, 15
FunCs.DoubleF, 8	