

# Expression Reference Information

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This section includes reference information about the Cora SeQUENCE Expression language.

## Expressions and .NET Types

Cora SeQUENCE expressions support the following types.

### Nullable Types

Nullable types represent value-type variables that you can assign a *null* value.

### Numeric Types

#### Integral Types

- SByte
- Byte
- Int16
- Int32
- Int64
- UInt16
- UInt32
- UInt 64

#### Real Types

- Single
- Double
- Decimal

### Enums and Arrays

#### Enum Types

In the expression language, access to the enum member is defined as a string that represents a member of that enum type.

```
act.Status = "Completed"
```

#### Array Type

The expression language supports creating and initializing an array instance.

```
new DateTime[] { }
```

### Accessible Types

Accessible types are types that you can reference in expressions.

### Access Rules

- The type is primitive.
- The type member is public.
- The type is exclusively added to the collection of the well-known types of the expression parse context.
- The type is member of the built-in predefined types.

### Constants

- The predefined constants *true* and *false* define the two values of the boolean type.
- The predefined constant *null* defines a null reference.
- The *null* constant is of Object type, but is also implicitly convertible to any reference type.

### Expression Parsing

Expression parsing is a process that converts a string that represents an expression into an expression tree.

### Expression Normalization

Expression normalization is an ability to modify an expression tree during the parsing process.

### Default Member Lookup

Uses *DefaultMemberAttribute* to locate a type member when it is not found on the type itself.

### Custom Member Lookup

Uses *CustomMemberProviderAttribute* to locate a type member when it is not found on the type itself.

The underlined compiled expression is a delegate generated by the .NET `LambdaExpression.Compile` method.

### Activities and Activity Views

Variable Name	Description
<ul style="list-style-type: none"> <li>• Start</li> <li>• End</li> <li>• IfElse</li> <li>• Empty</li> </ul>	ActivityView
<ul style="list-style-type: none"> <li>• Message</li> <li>• Split Or</li> <li>• Join And</li> <li>• Switch</li> <li>• Store Procedure</li> <li>• Database Listener</li> <li>• Assign</li> </ul>	DataBoundActivityView

Variable Name	Description
<ul style="list-style-type: none"> <li>• FormActivity</li> </ul>	FormActivityView
<ul style="list-style-type: none"> <li>• TaskActivity</li> </ul>	TaskActivityView
<ul style="list-style-type: none"> <li>• External Service Consumer</li> <li>• WCF Consumer</li> <li>• Web Service Consumer</li> <li>• Web Service Listener</li> </ul>	DynamicMethodActivityView
<ul style="list-style-type: none"> <li>• Error Handler</li> </ul>	ErrorHandlerActivityView
<ul style="list-style-type: none"> <li>• Sub Workflow</li> </ul>	SubWorkflowActivityView
SharePoint Listener	SharePointActivityView