

C#

Arrays and Lists

```
int[] array = new int[] { 1, 2, 3 };
List<int> list = new List<int> { 1, 2, 3 };
```

Lambdas

```
List.Where(item => item == 1)
Action<int> myAct = new Action<int>((myInt) =>
{
    myInt = 2;
});
```

Control Flow

```
for (int i = 0; i <= Length; i++)
{
    expression
}
```

```
foreach (var item in collection)
{
    expression
}
```

```
if (statement)
{
    expression
}
else if (statement)
{
    expression
}
else
{
    expression
}
```

```
while (statement)
{
    expression
}
```

```
do
{
    expression
} while (statement);
```

```
switch (variable)
{
    case a:
        expression
        break;
    default:
        expression
        break;
}
```

```
try
{
    expression
}
catch (Exception e)
{
    expression
}
finally
{
    expression
}
```

Synergy .NET

Arrays and Lists

```
DATA array, [#]int, NEW int[#] { 1, 2, 3 }
DATA list, @List<int>, NEW List<int>() { 1, 2, 3 }
```

Lambdas

```
List.Where(LAMBDA (item) {item == 1})
LAMBDA MyLambda(myInt)
BEGIN
    myInt = 2
END
DATA myAct, @Action<int>, NEW Action<int>(MyLambda)
```

Control Flow

```
DATA i, int
FOR i FROM 0 THRU Length
BEGIN
    expression
END
```

```
DATA variable, type
FOREACH variable IN collection
BEGIN
    expression
END
```

```
IF (statement) THEN
BEGIN
    expression
END
ELSE IF (statement) THEN
BEGIN
    expression
END
ELSE
BEGIN
    expression
END
```

```
WHILE (statement) DO
BEGIN
    expression
END
```

```
DO statement
BEGIN
    expression
END
UNTIL (statement)
```

```
USING variable SELECT
(a),
BEGIN
    expression
EXIT
END
(),
BEGIN
    expression
EXIT
END
END
TRY
BEGIN
    expression
END
CATCH (e, @exception)
BEGIN
    expression
END
FINALLY
BEGIN
    expression
END
ENDTRY
```



Need more help?

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	C#	Synergy .NET
Namespace	<pre>namespace MyNamespace { ... }</pre>	<pre>NAMESPACE MyNamespace ... ENDNAMESPACE</pre>
Class & Constructor	<pre>class MyClass { MyClass (string args) { ... } }</pre>	<pre>CLASS MyClass METHOD MyClass args, string ENDPARAMS PROC ... ENDMETHOD ENDCLASS</pre>
Method	<pre>static int MyMethod(string param) { ... return 42; }</pre>	<pre>STATIC METHOD MyMethod, int param, string ENDPARAMS PROC MRETURN 42 ENDMETHOD</pre>
Calling a Method	<pre>int argA = 10; MyMethod(argA);</pre>	<pre>DATA argA, int, 10 MyMethod(argA)</pre>
Declaring an Interface	<pre>interface IInterface { void MyMethod(); }</pre>	<pre>INTERFACE IInterface METHOD MyMethod, void ENDPARAMS ENDMETHOD ENDINTERFACE</pre>
Implementing an Interface	<pre>class MyClass : IInterface { public void MyMethod() { throw new Exception(); } }</pre>	<pre>CLASS MyClass IMPLEMENTS IInterface PUBLIC METHOD MyMethod, void ENDPARAMS PROC THROW NEW Exception() ENDMETHOD ENDCLASS</pre>
Auto-Implemented Property	<pre>string MyString { get; set; } string MyString { get; }</pre>	<pre>READWRITE PROPERTY MyString, string READONLY PROPERTY MyString, string</pre>
Full Property	<pre>private string _myString; public string MyString { get { return _myString; } set { _myString = value; } }</pre>	<pre>PRIVATE _myString, string PUBLIC PROPERTY MyString, string METHOD get PROC MRETURN _myString ENDMETHOD METHOD set PROC _myString = value ENDMETHOD ENDPROPERTY</pre>
Structure	<pre>struct MyStruct { public string fname; public string lname; public string phoneNum; }</pre>	<pre>CLS STRUCTURE MyStruct PUBLIC fname, string PUBLIC lname, string PUBLIC phoneNum, string ENDSTRUCTURE</pre>