Comparing Qt C++, C-Sharp and Visual Basic

This article provides a comparative overview of programming languages used on Nokia Platforms: C# and Visual Basic (Windows Phone), and Qt C++(Symbian and MeeGo).

Comments

Visual Basic

```
    'This line is commented
```

C#

```
// This line is commented

/* This line block is
Commented */
```

Qt C++ (same as for C#)

```
// This line is commented

/* This line block is
commented */
```

Data Types

Visual Basic

```
Boolean
Byte, SByte
Char
Short, UShort, INTEGER, UInteger, LONG, ULong
SINGLE, DOUBLE
Decimal
```

C#

```
bool
byte, sbyte
char
short, ushort, int, uint, long, ulong
float, double
decimal
```

Qt

```
bool
char
short
int
long
float
double
```

Variale declarations

Visual Basic

```
DIM <variable name> AS <datatype> = [<default Value>]
FOR example
DIM TotalAmount AS LONG=123456
```

C#

```
<datatype> <variable name> = [<default value>]
// example
long Totalamount = 123456
```

Qt

```
<datatype> <variable name> = [<default value>]
// Example
long Totalamount = 123456
```


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Condition statements

Visual Basic

```
IF <expression> THEN
  'Do something
ELSEIF <expression> THEN
  'Do something
ELSE
  'Do something
END IF
```

C#

```
if (<expression>)
  {
  // do something if expression is true
  }
elseif(<expression>)
  {
  // do something if expression is true
  }
else
  {
  // do something if expression is false
  }
```

Qt

```
if (<expression>)
  {
  // do something if expression is true
  }
else if(<expression>)
  {
  // do something if expression is true
  }
else
  {
  // do something if expression is false
  }
```

Switch

Visual Basic

```
 SELECT CASE <data>
     CASE <value1>
          'Do something
    CASE <value2>
         'Do something
    CASE ELSE
        'Do something if non of above case matched
    END SELECT
```

C#

```
switch (data)
{
case <value1>:
  //Do something
  break;
case <value2>:
  //do something
  break;
default:
  //do something if non of obove case matched.
  break;
}
```

Qt

```
switch (data)
  {
  case <value1>:
       //Do something
       break;
  case <value2>:
      //do something
      break;
  default:
      //do something if non of obove case matched.
      break;
  }
```

Loops

Visual Basic

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```
WHILE <expression>
  'do something
END WHILE

DO WHILE <expression>
  'do something
LOOP

DO UNTIL <expression>
   'do something
LOOP

FOR <variable>=<startValue> TO <endValue> STEP <increments>
     'do something
NEXT
```

C#

```
while (<expression>)
{
      // do something
}
do
{
      // do something
}while(expression);
for(<variable>=<startValue>;<expression>;<increment>)
{
      // do something
}
```

Qt

```
while (<expression>)
{
      // do something
}
for(<variable>=<startValue>;<expression>;<increment>)
{
      // do something
}
```

Exception handling

Visual Basic

```
Try
    'do something
catch ex AS Exception
    'do something
END Try
```

C#

```
try
{
     // do something
}
catch (Exception ex)
{
     //do something
}
```

Qt

```
try
{
   // do something
}
catch (e)
{
   //do something
}
```


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