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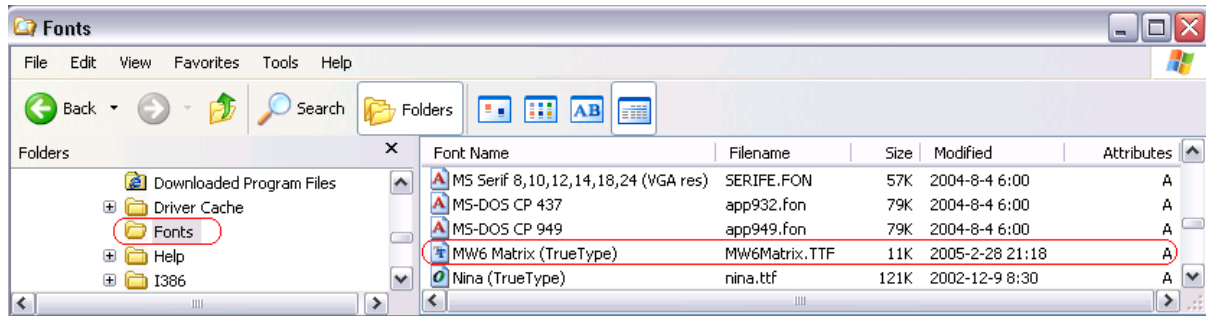
# 1 Introduction

MW6 DataMatrix font package can print DataMatrix barcode as a font, Win32 DLL encoder and .NET class library encoder are provided, the encoders are different for the trial version package and the full version package, the trial version encoders append "MW6 Demo" to the string encoded with DataMatrix.

There is only 1 TrueType font file (MW6Matrix.ttf) bundled with the font package:

Font name	Height/Width of module at 12 points
MW6 Matrix	1/30 inch

The above font file is same for the trial version package and the full version package, copy MW6Matrix.ttf file to the Windows Fonts folder.



## 2 How To Use Encoders

### 2.1 Win32 DLL Encoder

If you build DataMatrix font applications using Word, Access, Crystal Reports, VB, VC++, Delphi, Borland C++, FoxPro and PowerBuilder, Win32 DLL encoder is required to convert a regular string to DataMatrix font format string.

1. For 32-bit OS such as Windows XP and NT, copy "DataMatrixFont.dll" to the windows 32-bit system folder (e.g. "C:\winnt\system32" or "C:\windows\system32").
2. For 32-bit version of Windows Vista and above, copy "DataMatrixFont.dll" to the folder "C:\windows\system32".
3. For 64-bit version of Windows Vista and above, copy "DataMatrixFont.dll" to the folder "C:\windows\SysWow64".
4. If you want to generate DataMatrix barcodes inside 64-bit Office Word, Excel, or Access, copy "DataMatrixFont\_x64.dll" to the folder "c:\windows\system32".

### 2.2 .NET Class Library Encoder

If you build DataMatrix font applications using VB.NET or C#, .NET class library encoder is required to convert a regular string to DataMatrix font format string, copy "DataMatrixFontNet.dll" to your application folder.

## 2.3 Reference Guide

### 2.3.1 Win32 DLL Encoder Functions

#### 2.3.1.1 DMEncode Functiona

Encodes a string using DataMatrix format.

```
void DMEncode(  
    LPCTSTR Message,  
    WORD Mode,  
    WORD PreferredFormat,  
    BOOL HandleTilde);
```

#### Parameters

##### *Message*

String to be encoded using DataMatrix format.

##### *Mode*

Indicates which encoding mode is used, this parameter can be one of the following values.

Value	Comment
0	Auto mode for optimized encoding
1	ASCII encoding mode
2	C40 encoding mode
3	Text encoding mode
4	Base256 encoding mode

##### *PreferredFormat*

Indicates which format is used, the values of all formats are listed here.

##### *HandleTilde*

Indicates whether to process the tilde character "~" or not. If it is set to TRUE, non-printable characters can be passed to the encoder library by using the tilde character, "~**dNNN**" represents the ASCII character encoded by the 3 digits NNN, for example, "~d010" represents the character LF (line feed).

"~1" is used to indicate FNC1. For example, "~10107612345678900~117100503" can be used to generate GS1 DataMatrix "(01)0107612345678900(17)100503", and "~110AC34563G3" can be used to generate GS1 DataMatrix "(10)AC34563G3".

"~5" is used to indicate Macro 5. For example, "~5ABCDEF[GS]123456" can be used to generate DataMatrix "[>][RS]05[GS]ABCDEF[GS]123456[RS][EOT]".

"~6" is used to indicate Macro 6. For example, "~6ABCDEF[GS]123456" can be used to generate DataMatrix "[>][RS]06[GS]ABCDEF[GS]123456[RS][EOT]".

[RS] is the record separator with ASCII value 30, [GS] is the group separator with ASCII value 29,

---

and [EOT] is the end of transmission with ASCII value 4.

#### 2.3.1.2 DMGetCharAt Function

Retrieves the ASCII value for a character element in DataMatrix font data matrix.

```
WORD DMGetCharAt(WORD RowIndex, WORD ColIndex);
```

##### Parameters

*RowIndex*

This parameter is a 0-based index and a valid value must be between 0 and total number of rows - 1.

*ColIndex*

This parameter is a 0-based index and a valid value must be between 0 and total number of columns - 1.

##### Return Value

The return value is the ASCII value of a character element in DataMatrix font data matrix.

#### 2.3.1.3 DMGetCols Function

Returns the number of columns in DataMatrix font data matrix.

```
WORD DMGetCols();
```

##### Return Value

The return value is the number of columns in DataMatrix font data matrix.

#### 2.3.1.4 DMGetRows Function

Returns the number of rows in DataMatrix font data matrix.

```
WORD DMGetRows();
```

##### Return Value

The return value is the number of rows in DataMatrix font data matrix.

### 2.3.2 .NET Class Library Encoder Methods

#### 2.3.2.1 Encode Method

Encodes a string using DataMatrix format.

```
[Visual Basic .NET]  
Public Sub Encode(ByVal Message As String, _  
                  ByVal Mode As Integer, _
```

```
ByVal PreferredFormat As Integer, _
ByVal HandleTilde As Boolean)
```

```
[C#]
public void Encode(string Message,
    int Mode,
    int PreferredFormat,
    bool HandleTilde);
```

### Parameters

#### *Message*

String to be encoded using DataMatrix format.

#### *Mode*

Indicates which encoding mode is used, this parameter can be one of the following values.

Value	Comment
0	Auto mode for optimized encoding
1	ASCII encoding mode
2	C40 encoding mode
3	Text encoding mode
4	Base256 encoding mode

#### *PreferredFormat*

Indicates which format is used, the values of all formats are listed here.

#### *HandleTilde*

Indicates whether to process the tilde character "~" or not. If it is set to TRUE, non-printable characters can be passed to the encoder library by using the tilde character, "~dNNN" represents the ASCII character encoded by the 3 digits NNN, for example, "~d010" represents the character LF (line feed).

"~1" is used to indicate FNC1. For example, "~10107612345678900~117100503" can be used to generate GS1 DataMatrix "(01)0107612345678900(17)100503", and "~110AC34563G3" can be used to generate GS1 DataMatrix "(10)AC34563G3".

"~5" is used to indicate Macro 5. For example, "~5ABCDEF[GS]123456" can be used to generate DataMatrix "[>][RS]05[GS]ABCDEF[GS]123456[RS][EOT]".

"~6" is used to indicate Macro 6. For example, "~6ABCDEF[GS]123456" can be used to generate DataMatrix "[>][RS]06[GS]ABCDEF[GS]123456[RS][EOT]".

[RS] is the record separator with ASCII value 30, [GS] is the group separator with ASCII value 29, and [EOT] is the end of transmission with ASCII value 4.

#### 2.3.2.2 GetCols Method

Returns the number of columns in DataMatrix font data matrix.

[Visual Basic .NET]

```
Public Function GetCols() As Integer
```

[C#]

```
public int GetCols();
```

##### Return Value

The return value is the number of columns in DataMatrix font data matrix.

#### 2.3.2.3 GetRows Method

Returns the number of rows in DataMatrix font data matrix.

[Visual Basic .NET]

```
Public Function GetRows() As Integer
```

[C#]

```
public int GetRows();
```

##### Return Value

The return value is the number of rows in DataMatrix font data matrix.

#### 2.3.2.4 GetRowStringAt Method

Concatenates characters for a row in DataMatrix font data matrix to create a string and return it.

[Visual Basic .NET]

```
Public Function GetRowStringAt(ByVal RowIndex As Integer) As String
```

[C#]

```
public string GetRowStringAt(int RowIndex);
```

##### Parameters

*RowIndex*

This parameter is a 0-based index and a valid value must be between 0 and total number of rows - 1.

##### Return Value

The return value is a row string for DataMatrix font data matrix.

---

## 3 Crystal Reports

### 3.1 How To Use It

1. The old versions (prior to V9) of Crystal Reports have the limitation for the string length (< **256 characters**), the MW6 DataMatrix UFL encoder function can easily produce a string with more than 255 characters, so please upgrade your Crystal Reports to version 9 in order to add powerful DataMatrix barcode into your reports.
2. Go to the folder where u2lcom.dll is located and copy CRUFLDat.dll there, and this folder varies depending on your version of Crystal Reports. If you are running a 64 bit version of Windows OS such as Windows Vista 64 bit or Windows 7 64 bit, you may need to look in "*C:\Program Files (x86)*" rather than "*C:\Program Files*" folder.

Version	Folder
Crystal Reports 14 (CR2011)	C:\Program Files\Common Files\Business Objects\3.0\bin
Crystal Reports 12 (CR2008)	C:\Program Files\Common Files\Business Objects\3.0\bin <b>or</b> C:\Program Files\Business Objects\BusinessObjects Enterprise 12.0\win32_x86
Crystal Reports 11 R2 (XI R2)	C:\Program Files\Business Objects\common\3.5\bin
Crystal Reports 11 (XI)	C:\Program Files\Common Files\Business Objects\3.0\bin
Crystal Reports .Net 10.2	C:\Program Files\Common Files\Business Objects\2.7\Bin
Crystal Reports 10	C:\Program Files\Common Files\Crystal Decisions\2.5\bin
Crystal Reports 9	C:\Program Files\Common Files\Crystal Decisions\2.0\bin
Crystal Reports for Visual Studio 2003	C:\Program Files\Common Files\Crystal Decisions\1.1\bin
Crystal Reports .Net 1.0	C:\Program Files\Common Files\Crystal Decisions\1.0\bin

3. For Windows Vista or above, you need to use an elevated Command Prompt to run *regsvr32.exe* command, click "**Start**" > "**All Programs**" > "**Accessories**", right-click "**Command Prompt**", and then click "**Run**" as administrator.
4. For 32-bit version Windows OS, run "*regsvr32 CRUFLDat.dll*" to register it. Copy "*DataMatrixFont.dll*" to the windows 32-bit system folder (e.g. "*C:\winnt\system32*" or "*C:\windows\system32*") and move to the step 6.
5. For 64-bit version Windows OS, run "*C:\windows\SysWOW64\regsvr32 CRUFLDat.dll*" to register it. Copy "*DataMatrixFont.dll*" to the windows 32-bit system folder, which is "*C:\windows\SysWOW64*".
6. Open up Crystal Reports, go to "**Field Explorer**", right click on "**Formula Fields**", click on "**New**", enter "**DataMatrix Barcode**", copy the following code into the Formula Editor area.

```
stringVar OrigStr := ToText({TableName.FieldName});
numberVar EncodingMode := 0;
numberVar PreferredFormat := 0;
booleanVar HandleTilde := true;

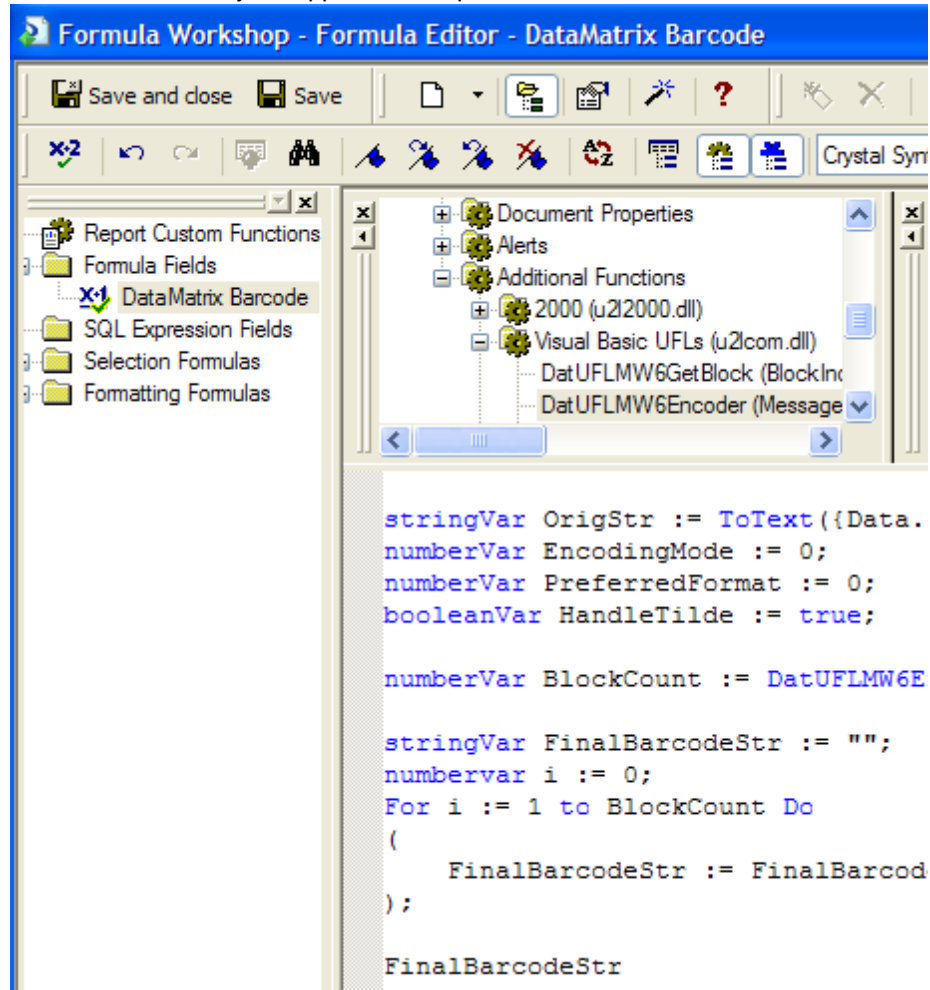
numberVar BlockCount := DatUFLMW6Encoder (OrigStr,EncodingMode,PreferredFormat,HandleTilde);

stringVar FinalBarcodeStr := "";
numbervar i := 0;
For i := 1 to BlockCount Do
```

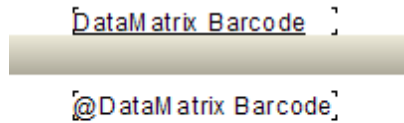


```
(  
    FinalBarcodeStr := FinalBarcodeStr + DatUFLMW6GetBlock (i - 1);  
);  
FinalBarcodeStr
```

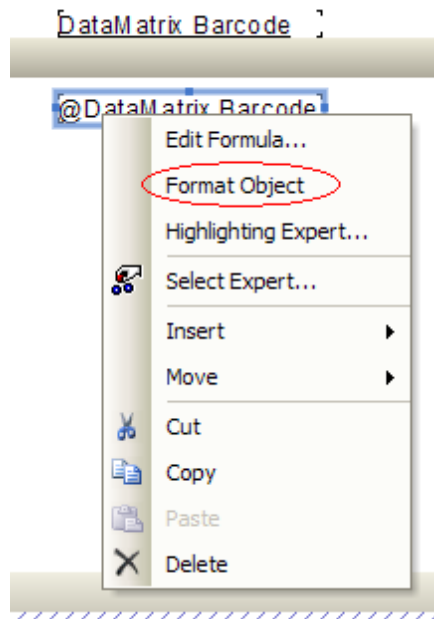
7. Change a few values to meet your application requirements, click **"Save"** and close this window.



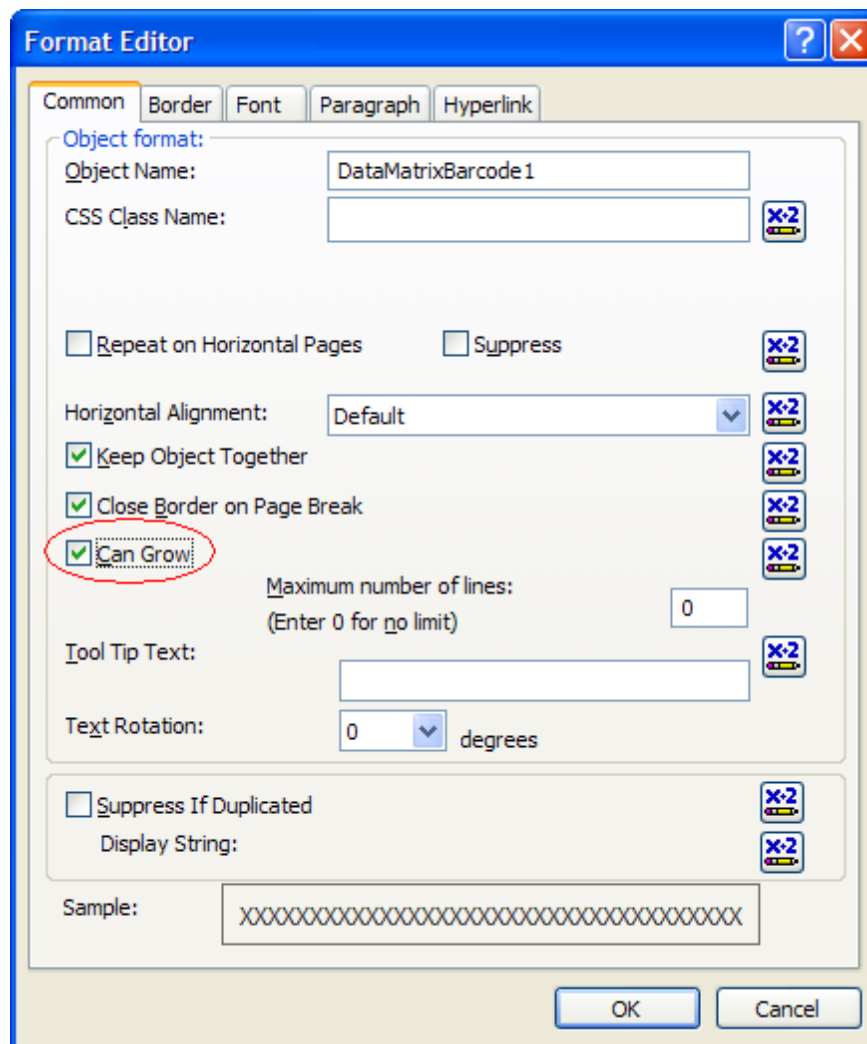
8. Click on the formula field **"DataMatrix Barcode"** and drag it on the report.



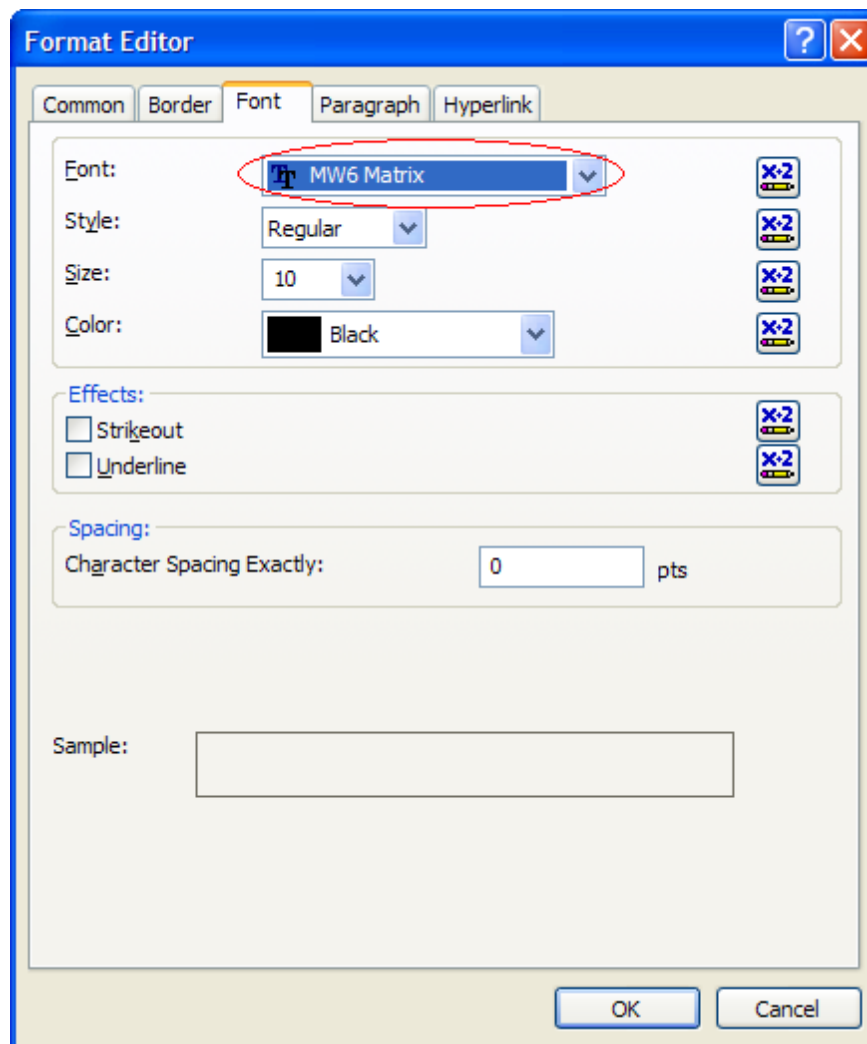
9. Right-click "**@DataMatrix Barcode**" and choose "**Format Object**".



10. Toggle on "**Can Grow**" check box under "**Common**" tab.
-



11. Choose "MW6 Matrix" as the font name under "**Font**" tab.



12. Run the report.

### DataMatrix Barcode



## 3.2 How To Distribute It

For the distribution purpose, you need to distribute MW6 DataMatrix font .ttf file (MW6Matrix.ttf), Win32 DLL Encoder (DataMatrixFont.dll), Crystal Reports UFL (CRUFLDat.dll), Crystal Reports Runtime (u2lcom.dll) and VB Runtime DLL (msvbvm60.dll), VB Runtime DLL already exists on most PCs and it can be found in the system folder.

## 3.3 UFL Functions

### 3.3.1 DatUFLMW6Encoder Function

Encodes a string using DataMatrix format.

```
Public Function DatUFLMW6Encoder(ByVal Message As String, _  
                                ByVal Mode As Integer, _  
                                ByVal PreferredFormat As Integer, _  
                                ByVal HandleTilde As Boolean) As Integer
```

#### Parameters

##### *Message*

String to be encoded using DataMatrix format.

##### *Mode*

Indicates which encoding mode is used, this parameter can be one of the following values.

Value	Comment
0	Auto mode for optimized encoding
1	ASCII encoding mode
2	C40 encoding mode
3	Text encoding mode
4	Base256 encoding mode

##### *PreferredFormat*

Indicates which format is used, the values of all formats are listed here.

##### *HandleTilde*

Indicates whether to process the tilde character "~" or not, the detailed description is:

- "~1" is used to represent the FNC1 code.
- "~2" is used to represent the Structured Append and must be followed by a 3-digit number between 1 and 255.
- "~3" is used only at the very beginning of the symbol for the reader programming purpose.
- "~5" is used only at the very beginning of the symbol, the header []> + ASCII 30 + ASCII 05 + ASCII 29 will be transmitted by the barcode reader before the data in the message and the trailer ASCII 30 + ASCII 4 will be transmitted afterwards.

- "~6" is used only at the very beginning of the symbol, the header [ ]> + ASCII 30 + ASCII 06 + ASCII 29 will be transmitted by the barcode reader before the data in the message and the trailer ASCII 30 + ASCII 4 will be transmitted afterwards.
- "~7NNNNNN" is used to specify the Extended Channel and NNNNNN is a value between 000000 and 999999.
- "~dNNN" is used to represent the ASCII character with the value of NNN.

### Return Value

Number of DataMatrix format string blocks. Each block has 254 characters, the only exception is that last block might contain <254 characters. Since Crystal Reports UFL function only allows the returned string with maximum 254 characters, we have to build entire DataMatrix format string by concatenating all blocks together.

## 3.3.2 DatUFLMW6GetBlock Function

Retrieves a block data of DataMatrix format string.

```
Public Function DatUFLMW6GetBlock(ByVal BlockIndex As Integer) As String
```

### Parameters

*BlockIndex*

This parameter is a 0-based index and a valid value must be between 0 and total number of blocks - 1.

### Return Value

A block data of DataMatrix format string.

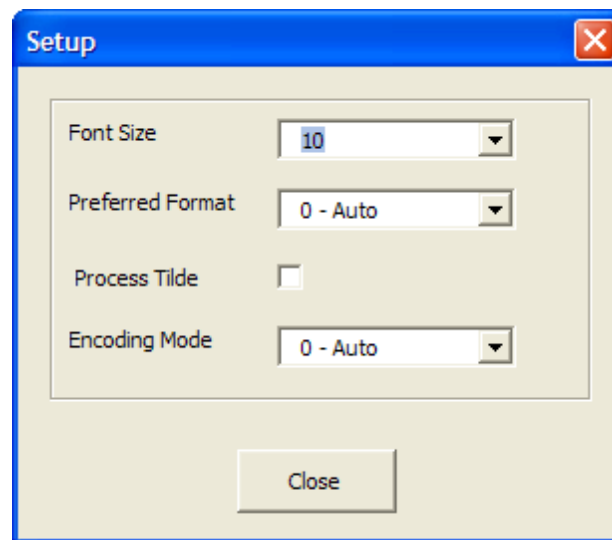
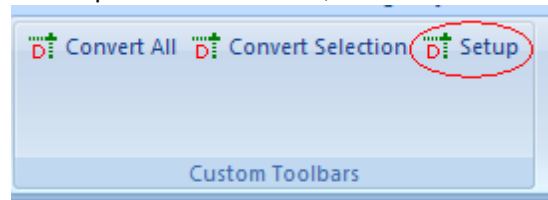
## 4 Office 2007 & 2010

### 4.1 Word

#### 4.1.1 Install Template File

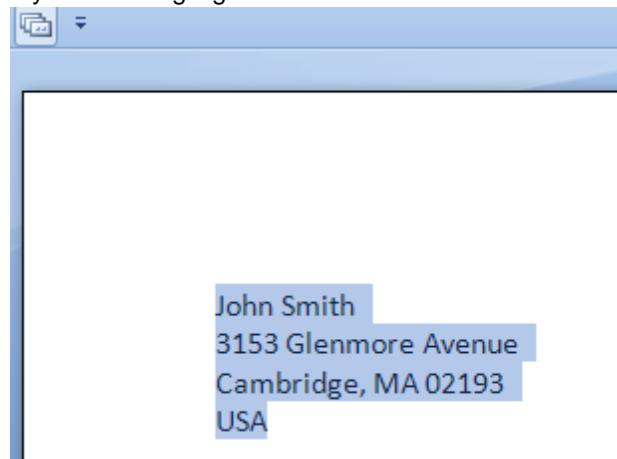
1. Locate Microsoft Word Startup folder, which usually is "C:\Documents and Settings\<user name>\Application Data\Microsoft\Word\STARTUP" for Windows XP or "C:\Users\<user name>\AppData\Roaming\Microsoft\Word\STARTUP" for Windows Vista and above.
  2. Copy MW6\_DataMatrix\_Font.dotm for 32-bit Office or MW6\_DataMatrix\_Font\_x64.dotm for 64-bit Office to this folder.
  3. For 32-bit Office, copy "DataMatrixFont.dll" to the windows 32-bit system folder (e.g., "C:\winnt\system32" or "C:\windows\system32") of 32-bit OS or the windows SysWow64 folder of 64-bit OS (e.g., "C:\windows\SysWow64").
-

4. For 64-bit Office, copy "DataMatrixFont\_x64.dll" to the windows 32-bit system folder (e.g., "C:\windows\system32").
5. Click on "**Add-Ins**", then click on "**Setup**". Change the configurations for DataMatrix format, if you want to encode a string with non-printable characters, click on "**Process Tilde**" checkbox.

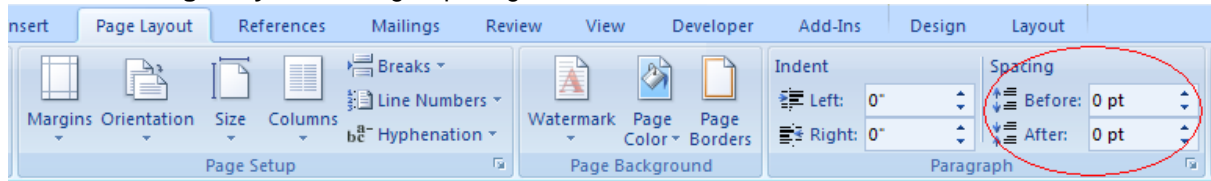


#### 4.1.2 Create Single Barcode

1. Enter a few strings line by line and highlight them.



2. Click on "**Page Layout**", change Spacing "**Before**" and "**After**" to 0.



3. Click on "**Add-Ins**", then click on "**Convert Selection**" to create a DataMatrix barcode.



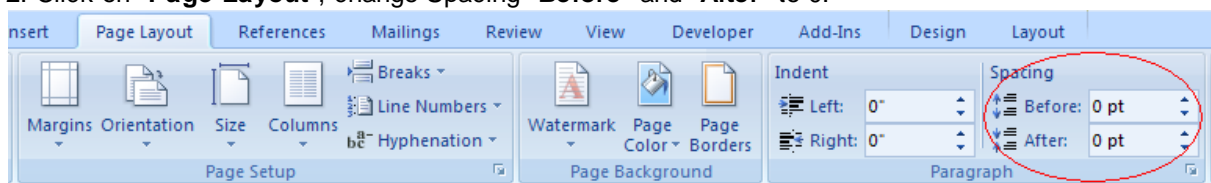
#### 4.1.3 Create Multiple Barcodes

1. Enter a few string sections, surround those sections which will be converted to barcodes with the "<" and ">" characters, highlight those sections.

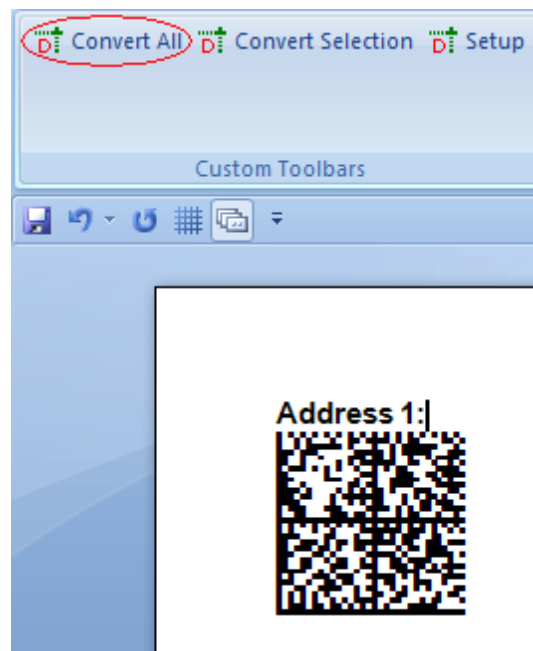


<p><b>Address 1:</b> &lt;John Smith 3153 Glenmore Avenue Cambridge, MA 02193 USA&gt;</p> <p><b>Address 2:</b> &lt;Todd Joe 7150 Sunny Parkway Mountain View, CA 94039 USA&gt;</p> <p><b>Address 3:</b> &lt;Jerry Page 2329 Country Hills Drive Vancouver, BC V6T 1Z4 Canada&gt;</p>
---

2. Click on "**Page Layout**", change Spacing "**Before**" and "**After**" to 0.

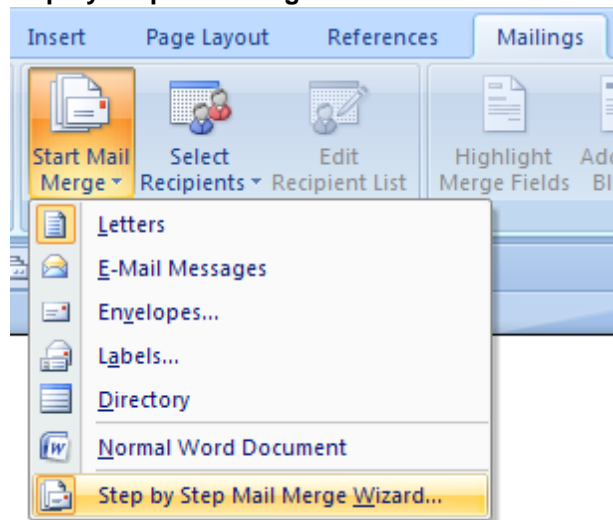


3. Click on "**Add-Ins**", then click on "**Convert All**" to create barcodes for the string sections surrounded with the "<" and ">" characters.

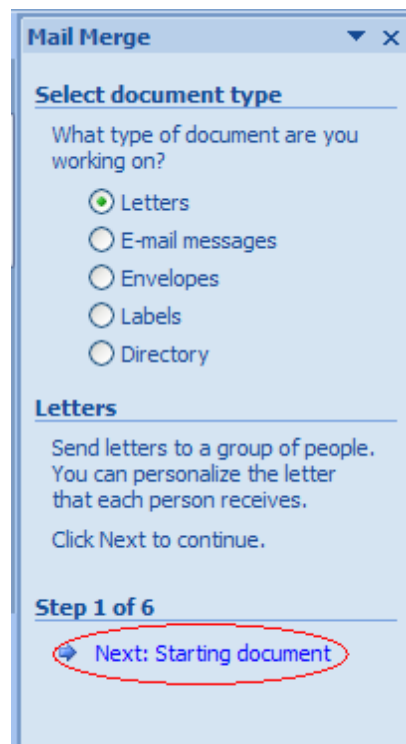


#### 4.1.4 Mail Merge

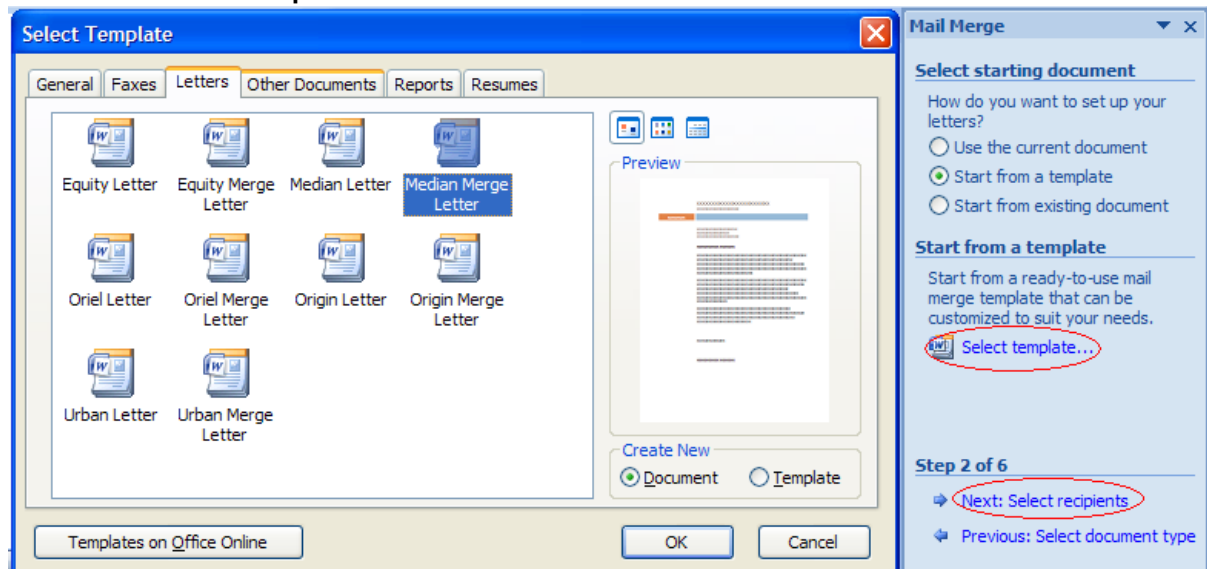
1. Click on "**Mailings**", then click on "**Start Mail Merge**". A drop-down list appears as shown below, select the last option "**Step by Step Mail Merge Wizard**".



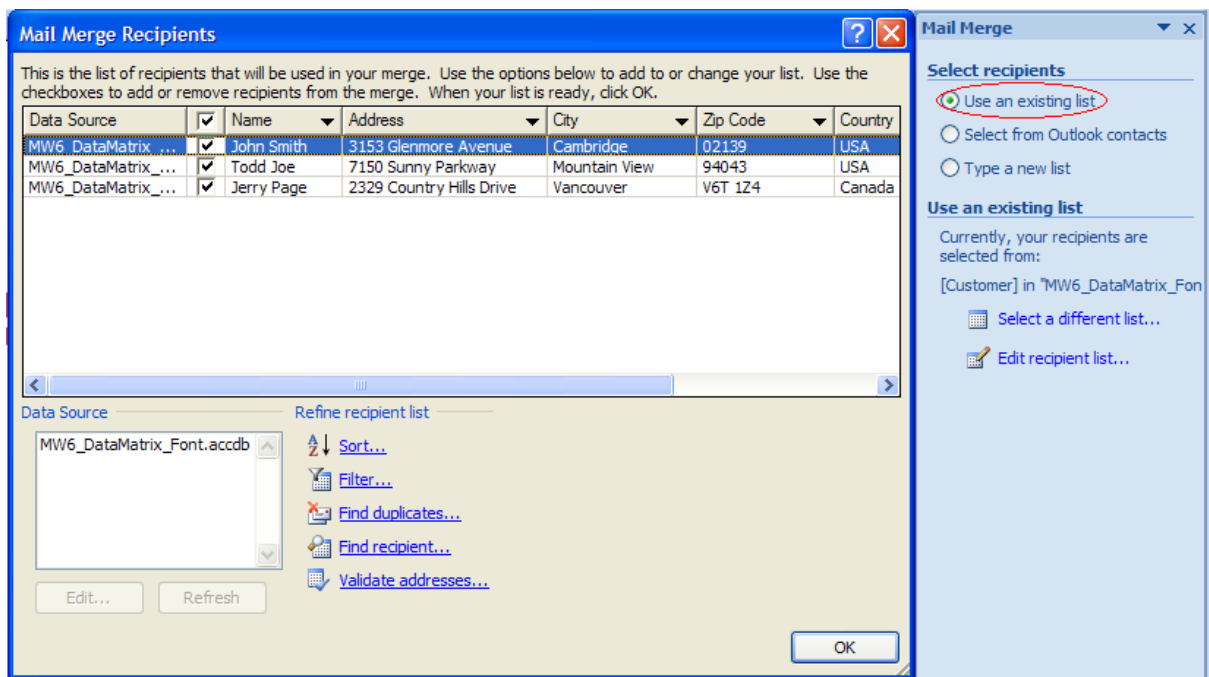
2. Select a document type and click on "**Next: Starting document**".



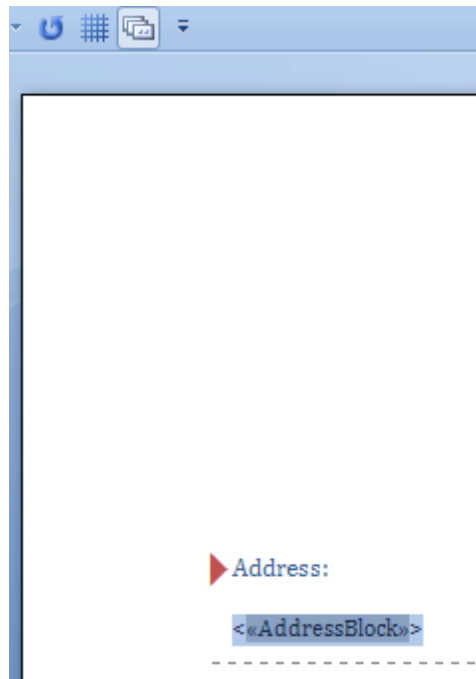
3. Click on "**Start from a template**", then click on the link "**Select template**", choose a template, click on "**Next: Select recipients**".



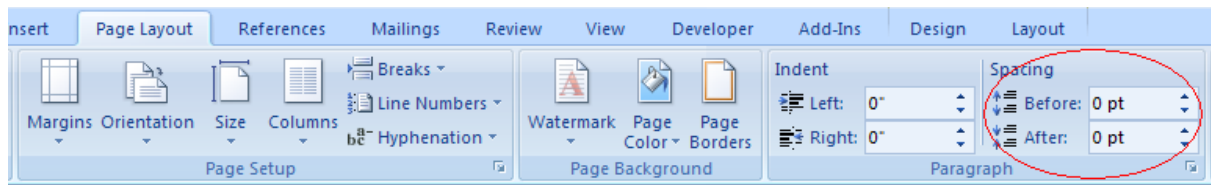
4. Select "**Use an existing list**" and click on "**Browser**" link, choose "MW6\_DataMatrix\_Font.accdb" database as an existing list, click "**Next: Write your letter**".



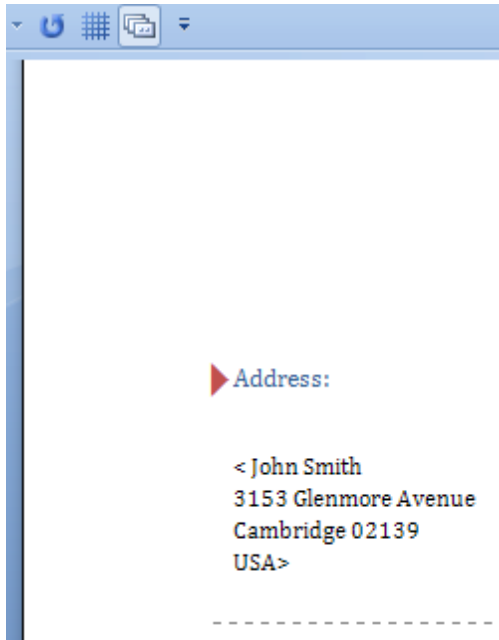
5. Surround the section which will be converted to DataMatrix barcode with "<" and ">" characters and highlight it.



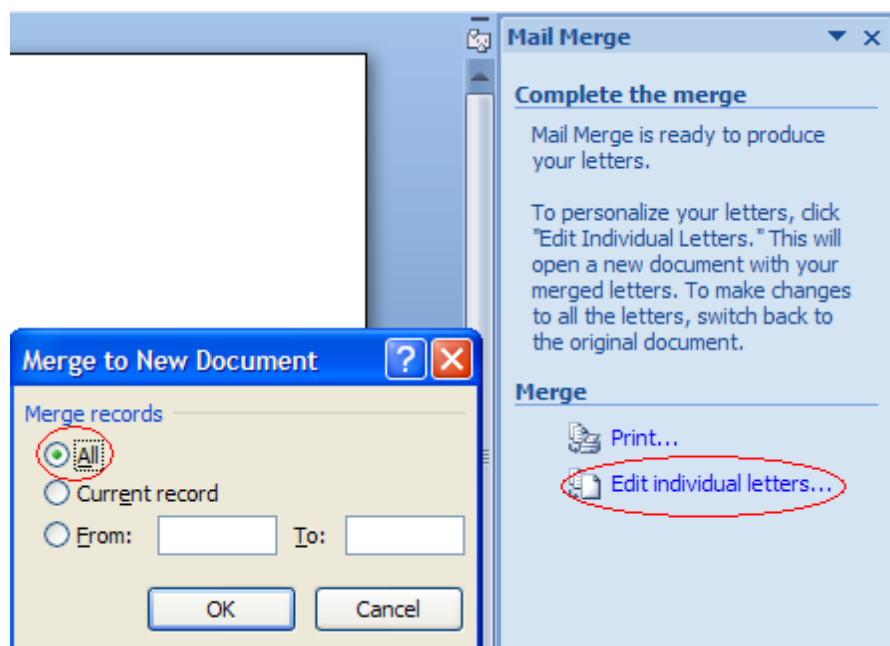
6. Click on "Page Layout", change Spacing "Before" and "After" to 0.



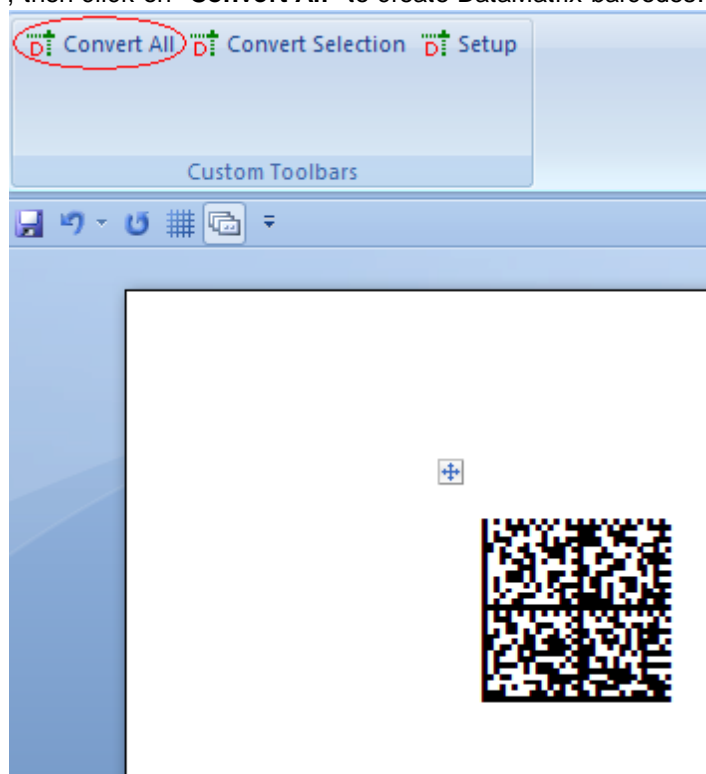
7. Click on "**Next: Preview your letters**", then click on "**Next: Complete the merge**".



8. Click on "**Edit individual letters**", this opens "**Merge to New Document**" dialog, click on "**All**" and then click on "**OK**" button.

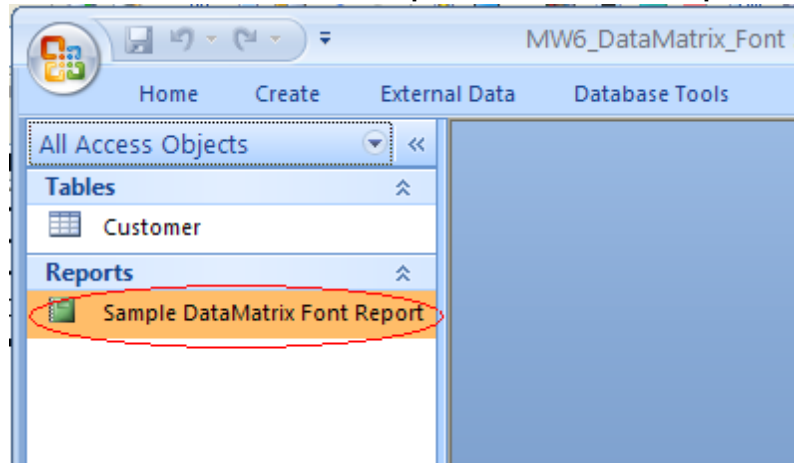


9. Click on "**Add-Ins**", then click on "**Convert All**" to create DataMatrix barcodes.

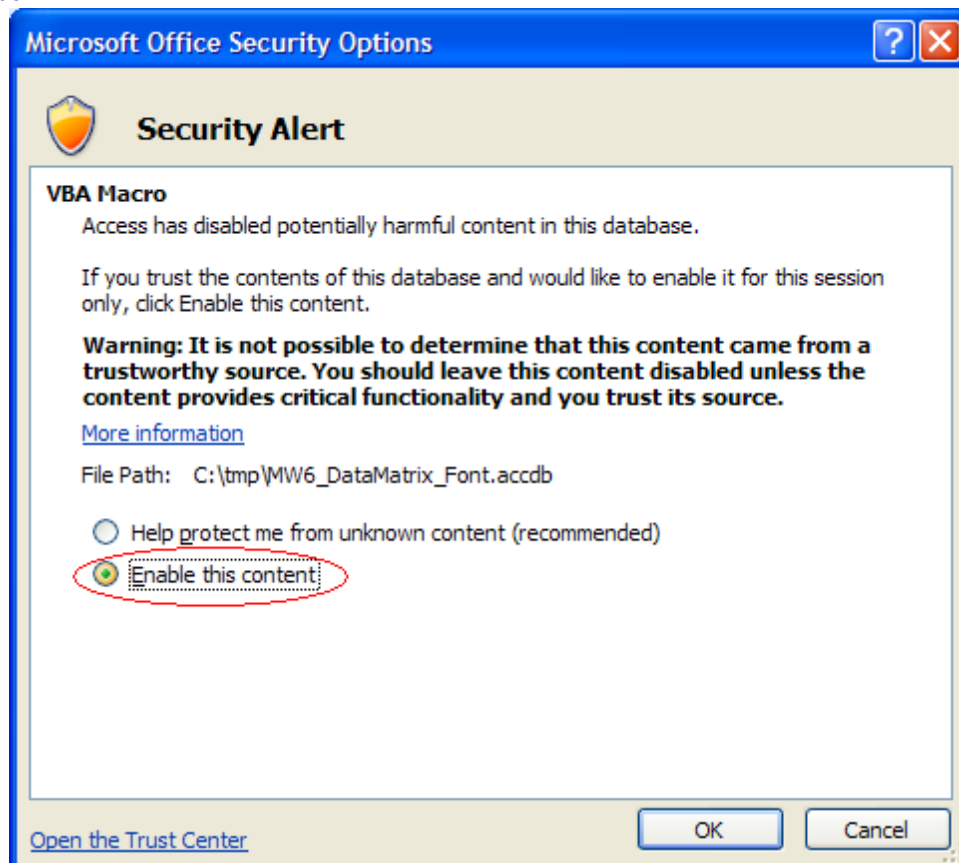


## 4.2 Access

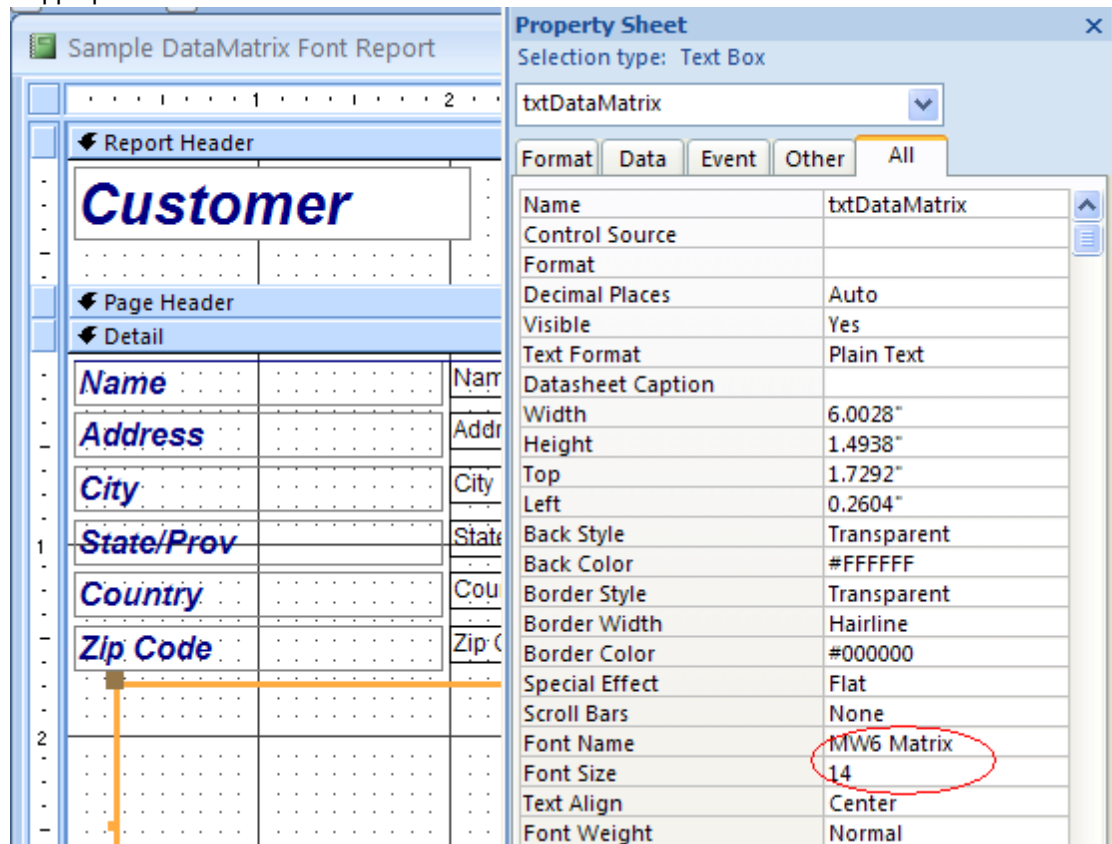
1. Copy "DataMatrixFont.dll" to the windows 32-bit system folder (e.g. "C:\winnt\system32" or "C:\windows\system32").
2. Open MW6\_DataMatrix\_Font.accdb, select **"Sample DataMatrix Font Report"**.



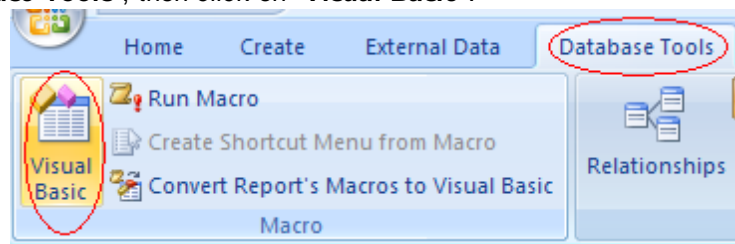
3. If you see **"Security Warning, Certain content in the database has been disabled"**, click on **"Options"** to open **"Microsoft Office Security Options"** dialog, toggle on **"Enable this content"** check box.



4. Click on "**Design View**", insert a Text Box into the report, set its font name to "MW6 Matrix", choose an appropriate font size.

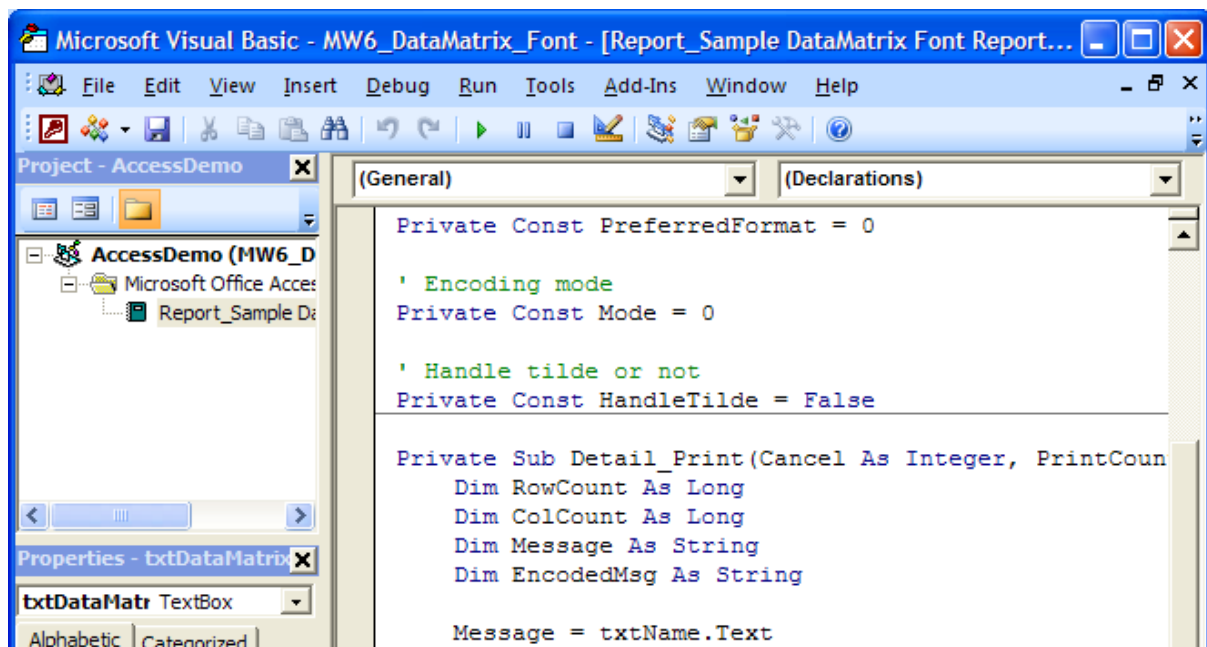


5. Click on "**Database Tools**", then click on "**Visual Basic**".



6. Convert a regular string to a DataMatrix format barcode string in "*Private Sub Detail\_Print(Cancel As Integer, PrintCount As Integer)*".





7. Click on "**Preview**" to view DataMatrix barcodes.

**Customer**

***Name*** John Smith

***Address*** 3153 Glenmore Avenue

***City*** Cambridge

***State/Prov*** MA

***Country*** USA

***Zip Code*** 02139



## 5 Office 2000 & 2003

### 5.1 Word Demo

#### 5.1.1 Install Template File

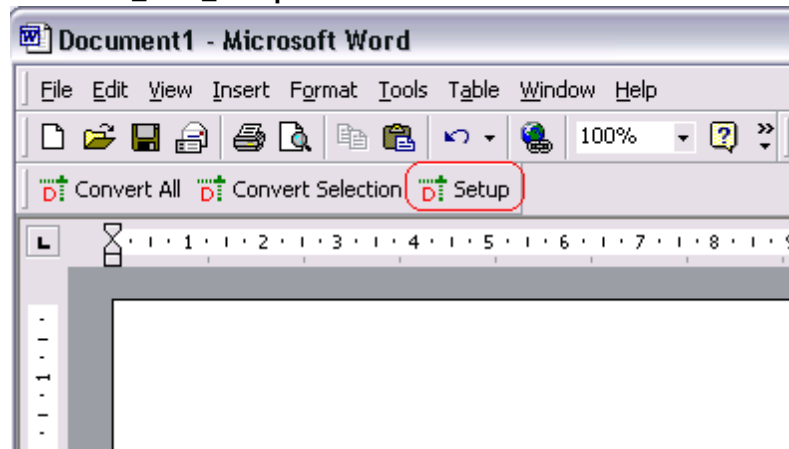
1. Locate the Word Startup folder, the Startup folder can be found in the following locations:

OS	Location
Windows Vista and above	"C:\Users\<user name>\AppData\Roaming\Microsoft\Word\STARTUP"
Windows 2000/XP	"C:\Documents and Settings\<user name>\Application Data\Microsoft\Word\STARTUP"
Windows NT4	"C:\Winnt\Profiles\<user name>\Application Data\Microsoft\Word\STARTUP"
Windows 95, 98, ME	Office XP: "C:\Program Files\Microsoft Office\Office10\STARTUP"

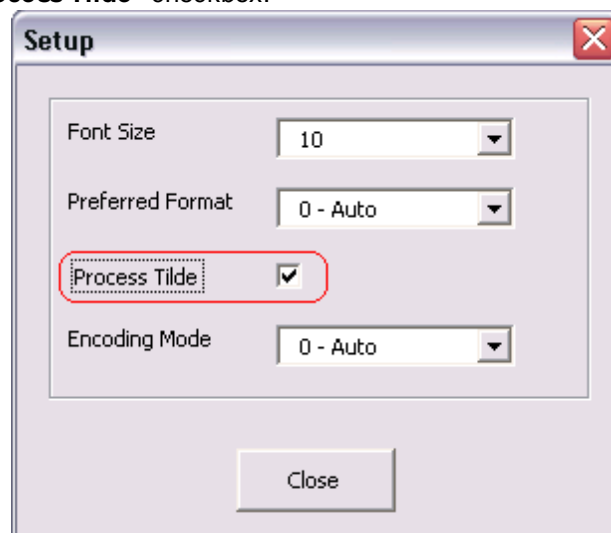
Office 2000/97:
-----------------

"C:\Program Files\Microsoft Office\Office\STARTUP"
--

2. Copy MW6\_DataMatrix\_Font.dot to this folder.
3. Copy "DataMatrixFont.dll" to the windows 32-bit system folder (e.g. "C:\winnt\system32" or "C:\windows\system32").
4. Open up Word, click on **"Setup"**. If you keep getting the error message **"The macro cannot be found or has been disabled because of ....."**, download Office 2000 or 2003 Service Pack 3 from Microsoft website and install it to fix this issue. Or simply click **"Tools" > "Macro" > "Macros"**, select **"MW6\_DataMatrix\_Font\_Setup"** and run it.

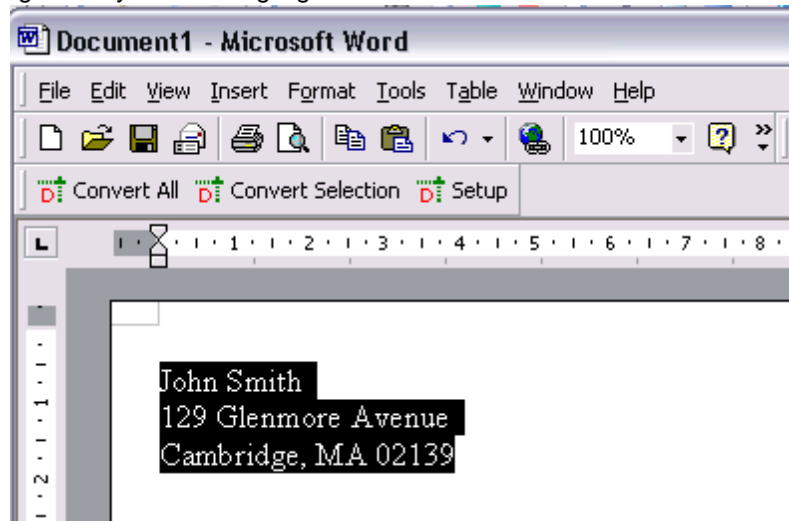


5. Change the configurations for DataMatrix format, if you want to encode a string with non-printable characters, click on **"Process Tilde"** checkbox.

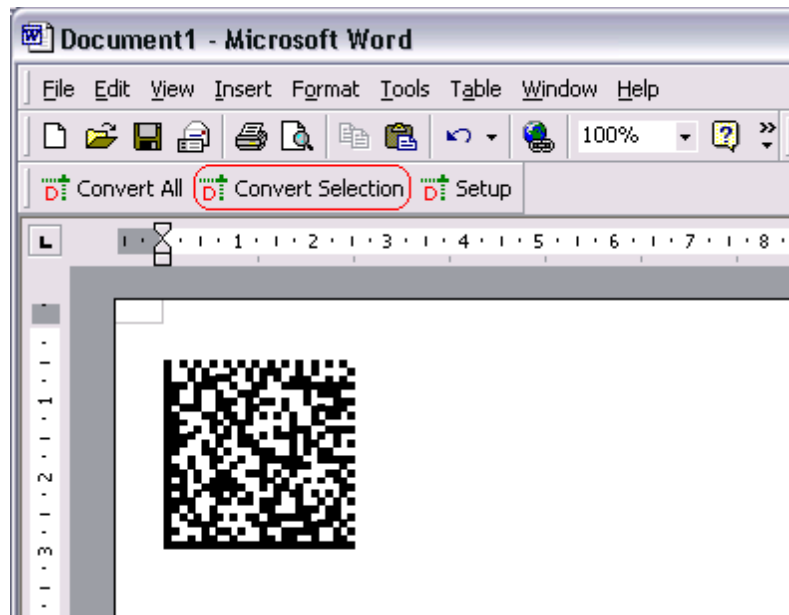


### 5.1.2 Create Single Barcode

1. Enter a few strings line by line and highlight them.

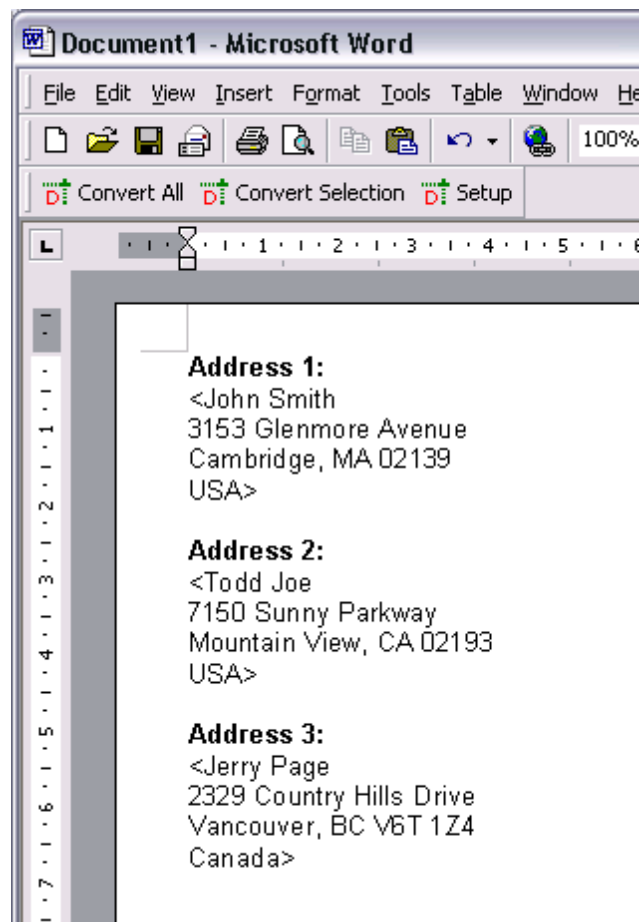


2. Click on "Convert Selection" to create a DataMatrix barcode.

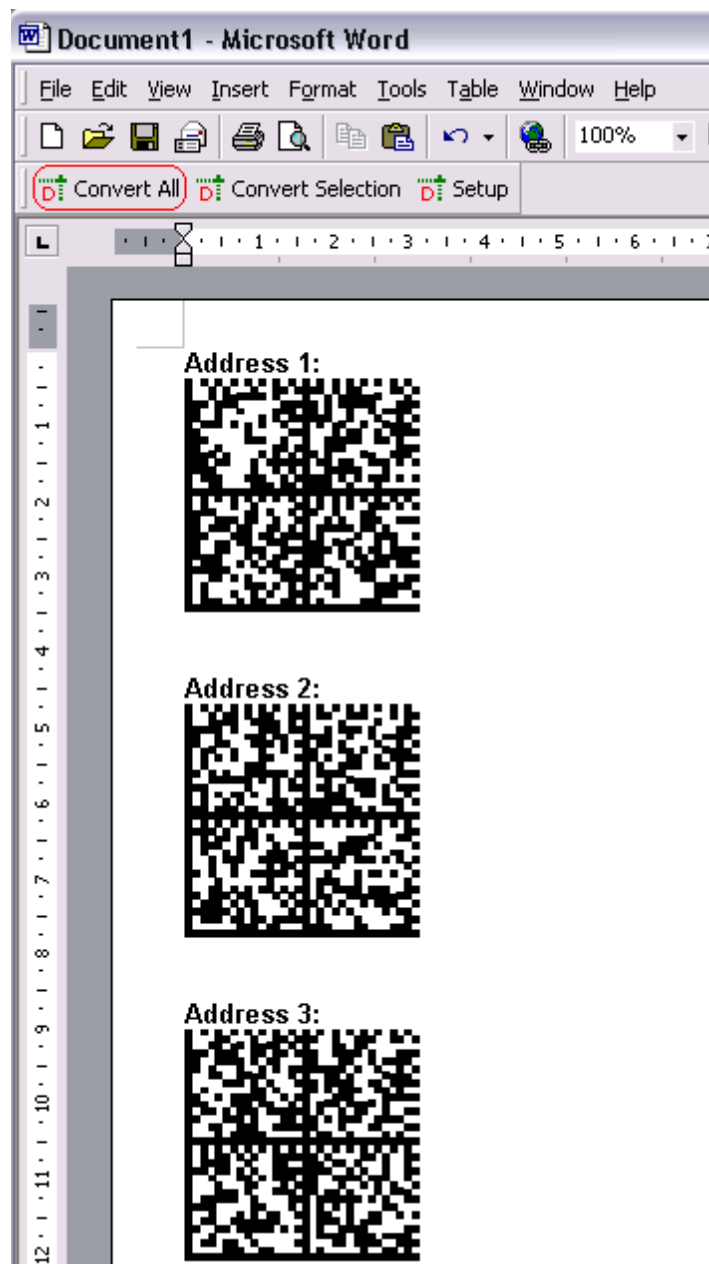


### 5.1.3 Create Multiple Barcodes

1. Enter a few paragraphs, surround those paragraphs which will be converted to barcodes with the "<" and ">" characters.

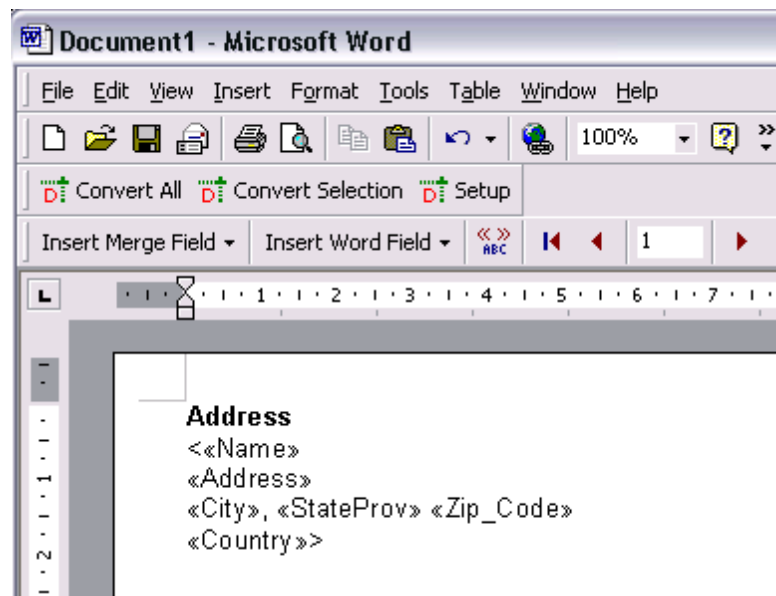


2. Click on "**Convert All**" to create the barcodes for paragraphs surrounded with the "<" and ">" characters.



#### 5.1.4 Mail Merge

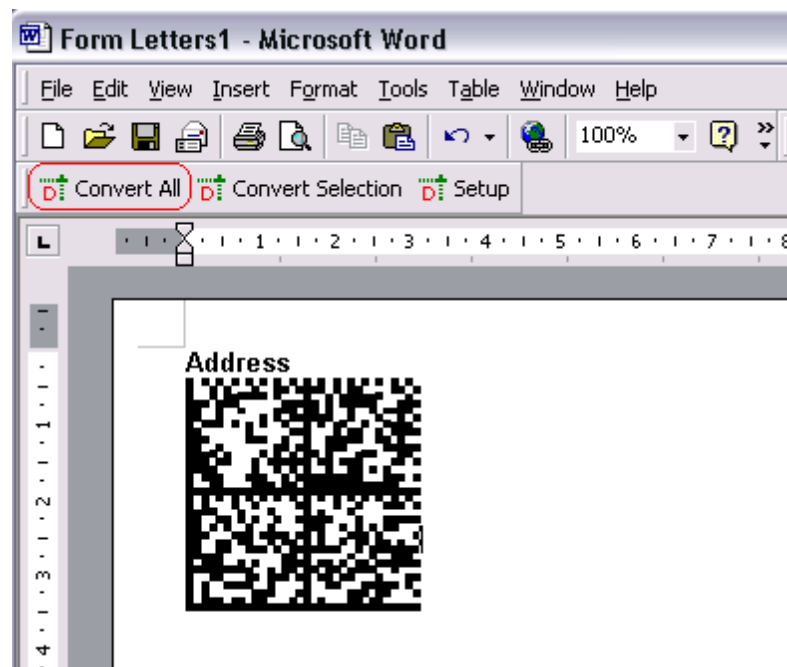
1. In Mail Merge, choose MW6\_DataMatrix\_Font.mdb as Data Source, surround the paragraph which will be converted to DataMatrix barcode with the "<" and ">" characters.



2. Click on "**Merge ...**"

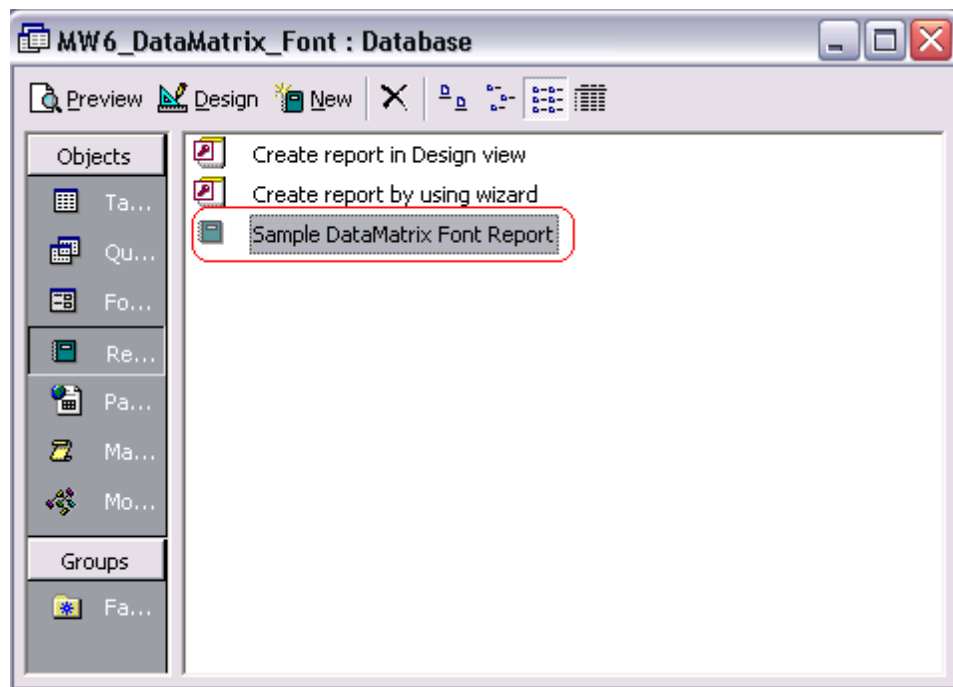


3. Click on "**Convert All**" to create DataMatrix barcodes for the paragraphs surrounded with the "<" and ">" characters.

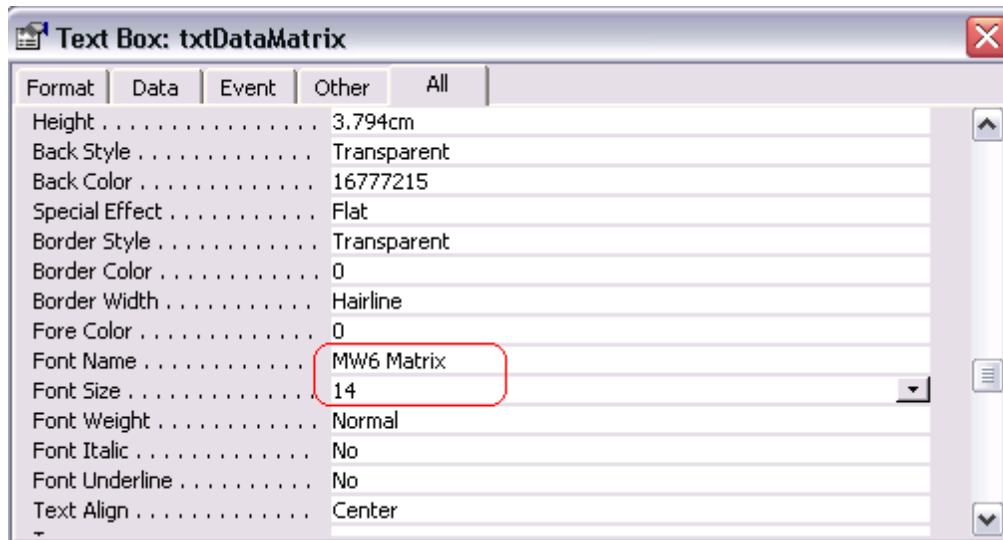


## 5.2 Access Demo

1. Copy "DataMatrixFont.dll" to the windows 32-bit system folder (e.g. "C:\winnt\system32" or "C:\windows\system32").
2. Open MW6\_DataMatrix\_Font.mdb, select "**Sample DataMatrix Font Report**".

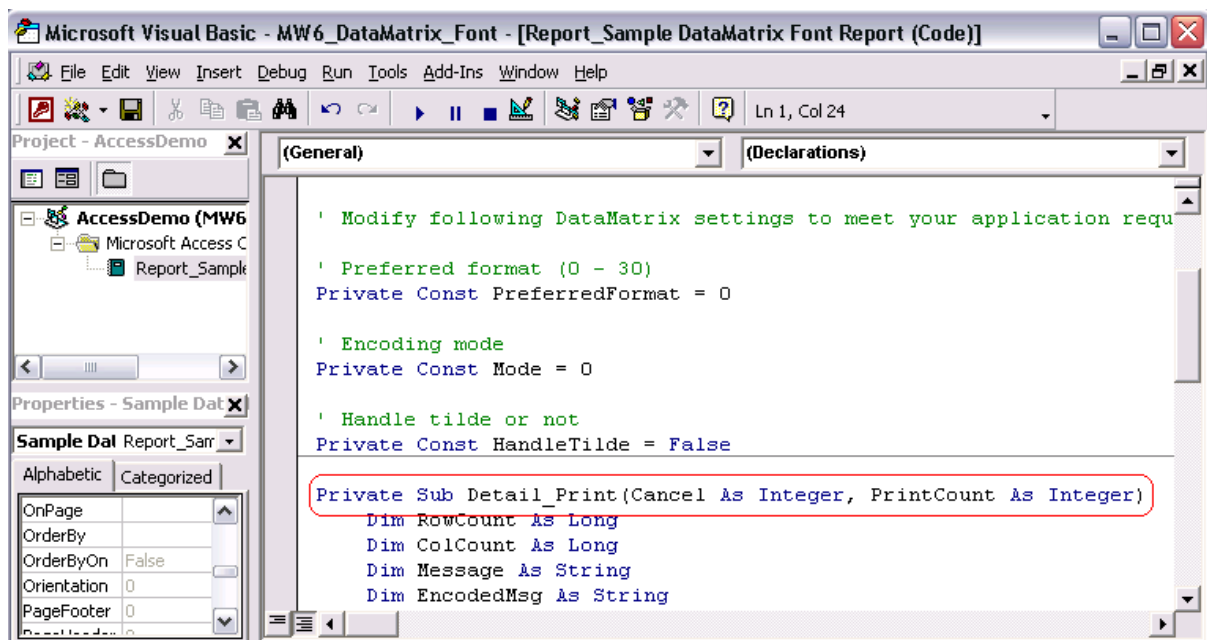


3. Click on "**Design**", insert a Text Box into the report, set its font name to "MW6 Matrix", choose an appropriate font size.



4. Convert a regular string to a barcode string in "*Private Sub Detail\_Print(Cancel As Integer, PrintCount As Integer)*".





5. Click on "Preview" to view DataMatrix barcodes.



## 6 DataMatrix Formats and Data Capacity

The following table lists all formats of DataMatrix barcode and their data capacity, keep in mind, the trial version encoders (Win32 DLL encoder and .NET encoder) append "MW6 Demo" to the string encoded with DataMatrix.

Value	Description	Data Capacity		
		Numeric	Alphanumeric	Byte
0	Auto format			
1	10 X 10 format	6	3	1
2	12 X 12 format	10	6	3
3	14 X 14 format	16	10	6
4	16 X 16 format	24	16	10
5	18 X 18 format	36	25	16
6	20 X 20 format	44	31	20
7	22 X 22 format	60	43	28
8	24 X 24 format	72	52	34
9	26 X 26 format	88	64	42
10	32 X 32 format	124	91	60
11	36 X 36 format	172	127	84
12	40 X 40 format	228	169	112
13	44 X 44 format	288	214	142
14	48 X 48 format	348	259	172
15	52 X 52 format	408	304	202
16	64 X 64 format	560	418	278
17	72 X 72 format	736	550	366
18	80 X 80 format	912	682	454
19	88 X 88 format	1152	862	574
20	96 X 96 format	1392	1042	694
21	104 X 104 format	1632	1222	814
22	120 X 120 format	2100	1573	1048
23	132 X 132 format	2608	1954	1302
24	144 X 144 format	3116	2335	1556
25	8 X 18 format	10	6	3
26	8 X 32 format	20	13	8
27	12 X 26 format	32	22	14
28	12 X 36 format	44	31	20
29	16 X 36 format	64	46	30
30	16 X 48 format	98	72	47

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