

# Triangle

This is an embedded C module which will draw a triangle on an attached LCD display panel. It is intended for use only on the standard MX170 Micromite (the Micromite Plus has an almost identical version built in). It was written by Peter Mather (matherp on the Back Shed Forum).

## Parameters

The Triangle command (created by adding the code listed below) takes eight parameters:

Triangle x1, y1, x2, y2, x3, y3, OutlineColour, FillColour

Where:

- x1 and y1 = The coordinates of the first corner of the triangle.
- x2 and y2 = Coordinates of the second corner.
- x3 and y3 = Coordinates of the third corner.
- OutlineColour = The colour to use when drawing the outline of the triangle.
- FillColour = The colour to use when filling in the triangle. This can be -1 which indicates that the triangle should not be filled (draw the outline only).

## Adding Triangle to MMBasic

To add the Triangle command to MMBasic insert following code in the BASIC program (you can use copy and paste from this document).

```
CSUB Triangle integer, integer, integer, integer, integer, integer, integer, integer
00000008
27BDFFF8 AFBF0004 00852023 03E42021 ACC40000 8FBF0004 03E00008 27BD0008
27BDFFF8 AFBF0064 AFBF0060 AFB7005C AFB60058 AFB50054 AFB40050 AFB3004C
AFB20048 AFB10044 AFB00040 00808021 00A09821 00C09021 00E0A021 8FB50078
00002021 3C059D00 24A50078 27A60018 0411FFE3 00000000 8FA30018 8FA20080
5040000E 3C029D00 5200000C 3C029D00 1240000A 3C029D00 12A00008 00000000
52600007 8C4200BC 12800003 8FA2007C 54400008 8E110000 3C029D00 8C4200BC
3C049D00 24840490 0040F809 00832021 8E110000 8E770000 8E560000 8E9E0000
8EB50000 AFB50034 8FA3007C 8C750000 8FA30080 8C620000 7C42B800 AFA20038
8FA20084 10400006 3C109D00 8C540000 2402FFFF 16820020 03D7102A 3C109D00
24120001 AFB20010 8FA30038 AFA30014 8E020050 02202021 02E02821 02C03021
0040F809 03C03821 AFB20010 8FA20038 AFA20014 8E020050 02C02021 03C02821
8FA60034 0040F809 02A03821 AFB20010 8FA30038 AFA30014 8E020050 8FA40034
02A02821 02203021 0040F809 02E03821 100000B4 8FBF0064 10400008 02BE102A
02E01021 03C0B821 0040F021 02201021 02C08821 0040B021 02BE102A 10400008
03D7102A 03C01021 02A0F021 0040A821 02C01021 8FB60034 AFA20034 03D7102A
10400006 02E01021 03C0B821 0040F021 02201021 02C08821 0040B021 16F5001D
03D51026 02D1102A 14400006 02203821 0236102A 10400005 8FA30034 10000002
02C03821 02C08821 8FA30034 0071102A 14400003 00E3102A 10000002 0062380B
8FB10034 3C029D00 8C420048 00F73821 AFB40010 8C420000 02202021 02E02821
02203021 0040F809 00F13823 1000007D 8FBF0064 0002102B 03C21023 AFA20028
0057102A 1440002B 02E08021 02D11023 AFA2002C 8FA30034 00711823 AFA30030
00009021 00009821 03D71023 AFA20020 02B71823 AFA30024 8FA30020 0263001A
006001F4 00002012 00912021 8FA30024 0243001A 006001F4 00003012 00D13021
00C4102A 10400004 3C039D00 00801021 00C02021 00403021 8C620048 AFB40010
8C420000 02002821 0040F809 02003821 26100001 8FA2002C 02629821 8FA30030
02439021 8FA30028 0070102A 1040FFE3 8FA30020 02B0102A 1440002B 8FA20034
00561023 AFA20028 021E9023 72429002 8FA20034 00511023 AFA2002C 02179823
70539802 02BE1023 AFA20020 02B71823 AFA30024 8FA30020 0243001A 006001F4
00002012 00962021 8FA30024 0263001A 006001F4 00003012 00D13021 00C4102A
10400004 3C039D00 00801021 00C02021 00403021 8C620048 AFB40010 8C420000
02002821 0040F809 02003821 26100001 8FA20028 02429021 8FA3002C 02B0102A
1040FFE4 02639821 8FA20038 1054001C 3C109D00 24120001 AFB20010 AFA20014
8E020050 02202021 02E02821 02C03021 0040F809 03C03821 AFB20010 8FA30038
AFA30014 8E020050 02C02021 03C02821 8FA60034 0040F809 02A03821 AFB20010
8FA20038 AFA20014 8E020050 8FA40034 02A02821 02203021 0040F809 02E03821
8FBF0064 8FBF0060 8FB7005C 8FB60058 8FB50054 8FB40050 8FB3004C 8FB20048
8FB10044 8FB00040 03E00008 27BD0068 61766E49 2064696C 6D6D6F43 0D646E61
0000000A
End CSUB
```