

# Embedded Fonts for the Colour Maximize 2

MMBasic for the Colour Maximize 2 allows a BASIC program to define a font in the program. This allows the programmer to use unusual fonts to suit a particular need not covered by the standard built in fonts. Embedded fonts work exactly same as the built in fonts (ie, selected using the FONT command or specified in the TEXT command).

## Defining a Font

The format of an embedded font is:

```
DefineFont #Nbr
    hex [[ hex[...]]
    hex [[ hex[...]]
END DefineFont
```

An embedded font must start with the keyword "DefineFont" followed by the font number (which may be preceded by an optional # character). Any font number in the range of 2 to 5 and 8 to 16 can be specified including a font number used by one of the built in fonts. In that case the embedded font will replace the built in font.

The body of the font is a sequence of 8-digit hex words with each word separated by one or more spaces or a new line. The first 8-digit hex word is the characteristics of the font (number of characters, size, etc) while the following words define the bitmap of the font. The format must follow the UTFT standard (see <http://www.rinkydinkelectronics.com> for the details).

The font definition is terminated by an "End DefineFont " keyword.

During execution MMBasic will skip over the DefineFont command and the data specified. This means that embedded fonts can be placed anywhere in the program however at the end is the normal location.

## Obtaining Fonts

The standard distribution of MMBasic for the CMM2 includes over a dozen fonts in a format ready for use in an MMBasic program. These fonts were converted from UTFT fonts kindly provided by Henning Karlsen at [www.rinkydinkelectronics.com](http://www.rinkydinkelectronics.com).

All the fonts are the same as the fonts listed at [http://www.rinkydinkelectronics.com/r\\_fonts.php](http://www.rinkydinkelectronics.com/r_fonts.php) and it is worth visiting that web page to see examples of the character sets, etc.

Also included in the standard distribution of MMBasic is the program UTFTConv which can be used to convert UTFT fonts on this web page to the format required by MMBasic.

## Editing Fonts

Jim Hiley (TassyJim on The Back Shed forum) has created an editor for font files used by the CMM2. Using this you can edit a character, add or delete characters, scale the font and scan an image to create a new character.

This program is called FontTweak.exe (for Windows) and can be downloaded from: <https://www.c-com.com.au/MMedit.htm>