

Anleitung zum Dot Matrix Generator

Quelle: <http://www.instructables.com/id/LED-Scrolling-Dot-Matrix-Font-Graphics-Generator-/?ALLSTEPS>

Online Version (abgespeckt): <http://box-fish.com/matrix-tool.php#>

Step 1: Open the Generator File - Get Excel Setup

	A	B	C	D	E	F	G	H	I	J	K	
1	8 x 8 Dot Matrix Font Creator			0	0	0	0	0	0	0	0	
2	Takes patterns and converts to			0	0	0	0	0	0	0	0	
3	a hex string with comments			0	0	0	0	0	0	0	0	
4				2	0	0	0	0	0	0	0	
5	By ROZNERD			0	0	0	0	0	0	0	0	
6	http://roznerd.blogspot.com/			0	0	0	0	0	0	0	0	
7	2/9/2010			0	0	0	0	0	0	0	0	
8				0	0	0	0	0	0	0	0	
9				column ->	1	2	3	4	5	6	7	8
10	Name/Note->			###	00	00	00	00	00	00	00	00

Download and open the "Dot_Matrix_Font_Generator.xls" file. It contains macros which means you may have trouble opening it depending on your security settings. I promise that it is safe. You will need to enable and/or allow the macros to load for this to work. If you aren't prompted upon opening then this will be under either:

Tools>Options>Security or **Tools>Macros>Security**

Here's what Microsoft says about this

office.microsoft.com/en-us/excel/HP052356701033.aspx

REQUIRED STEP

For the excel functions to work you have to turn on one of the technical Add-Ins.

Go to **Tools> Add-Ins** and Check the "**Analysis ToolPak**". This will allow the functions to do their thing. If you don't have it installed follow Microsofts instructions here:

office.microsoft.com/en-us/excel/HP011277241033.aspx

If you don't have the Add-In turned on then the column total cells in row #10 will show a **#NAME**.

Anyways,

The design is pretty intuitive.

Type a **1** for an LED you want on, a **0** for those you want off. Numbers other than 1 and 0 will cause the cell to turn red which means you better fix it or you get weirdness later. You will likely see **##** or **#NUM** in those cells if you put something other than 1 or 0 in there.

Step 2: Input Letters or Patterns

	A	B	C	D	E	F	G	H	I	J	K
1	8 x 8 Dot Matrix Font Creator			0	1	1	1	0	0	0	0
2	Takes patterns and converts to			1	0	0	0	1	0	0	0
3	a hex string with comments			1	0	0	0	1	0	0	0
4				1	0	0	0	1	0	0	0
5	By ROZNERD			1	1	1	1	1	0	0	0
6	http://roznerd.blogspot.com/			1	0	0	0	1	0	0	0
7	2/9/2010			1	0	0	0	1	0	0	0
8				1	0	0	0	1	0	0	0
9				1	2	3	4	5	6	7	8
10	Name/Note->	A		7F	88	88	88	7F	00	00	00

Set up a character or pattern. Note how the unformatted hex values show up below each column of the display.

Make sure the name is included so you can identify later in your code.

Step 3: Store Pattern and Clear Display

The screenshot shows the software interface with the following elements:

- 8 x 8 Dot Matrix Font Creator** title bar.
- Instructions: "Takes patterns and converts to a hex string with comments".
- Author info: "By ROZNERD", "<http://roznerd.blogspot.com/>", "2/9/2010".
- Input grid: An 8x8 grid where the first row contains a pattern of 1s and 0s. Below it, a "column ->" header and a grid of hex values (7F, 88, 88, 88, 7F, 00, 00, 00) corresponding to the pattern.
- Buttons: "Store Pattern & Clear Display" (green), "Format C code String" (blue), "Clear All Stored Patterns" (red).
- Storage table: A table with columns 1-8 and rows for Name/Note and hex values. Row A: Name "A", hex values 7F, 88, 88, 88, 7F, 00, 00, 00. Row B: Name "B", hex values FF, 99, 99, 99, 76, 00, 00, 00.
- "C Program String" window: A table with columns 1-8 and multiple empty rows for code.

Once the pattern is input you will click the "Store Pattern & Clear Display" button. This will paste the hex values and name/comment in the next available row below. It will also clear out the display and place the cursor in the name cell. At this point you are ready to create the next character or pattern.

You can see how they stack up in the image included. You can shuffle them later if you don't like the order.

