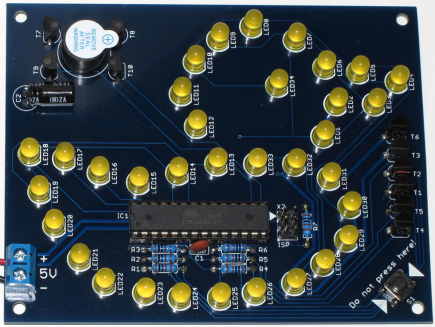
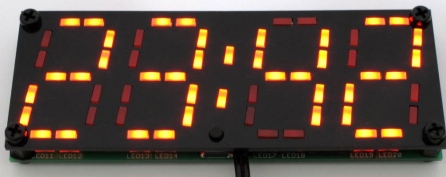
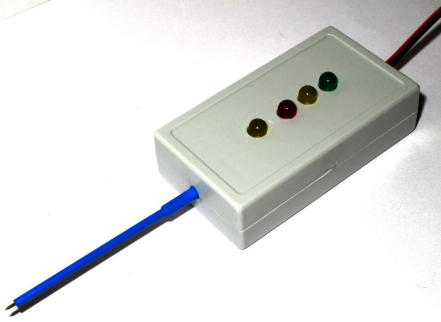
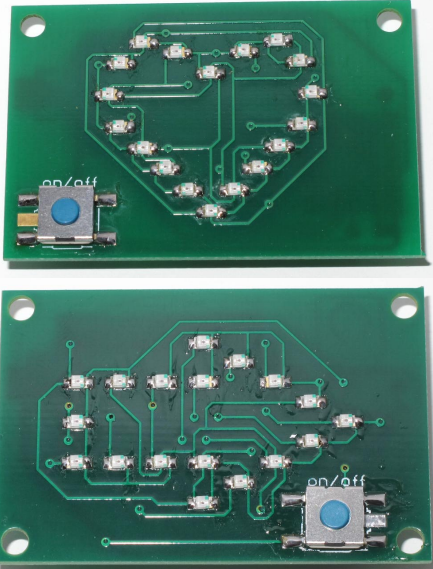
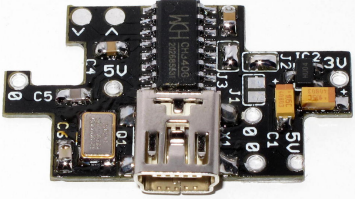

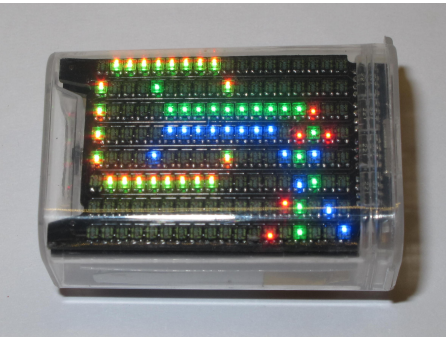



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	<p>DUCK</p> <p>34 yellow LEDs in duck shape plus speaker. The LEDs play several animations, some with fading.</p> <ul style="list-style-type: none"> • Quacks on button press • Pre-programmed controller (ATmega8) • Animations programmable (requires AVR programmer) • Sound replaceable (< 200 ms, requires AVR programmer) • Batteries not included (3x AA needed) 	<p>very easy</p> <p>SMD: no LED: yellow</p> <p style="text-align: right;">10,- €</p>
	<p>SimpleClock</p> <p>Mains powered digital clock with a 4-digit display made of discrete LEDs.</p> <p style="text-align: right; color: red; font-weight: bold; font-size: 2em;">NEW</p> <ul style="list-style-type: none"> • 24-hour time • Single push-button for setting time • Mains synchronized for long-term accuracy • Pre-programmed controller (ATtiny13) • Includes laser-cut bezel • Includes power supply (230 V, 50 Hz input) (60 Hz operation possible with different firmware) 	<p>easy</p> <p>SMD: no LED: red</p> <p style="text-align: right;">15,- €</p>
	<p>Logic Probe</p> <p>Logic probe for TTL or CMOS levels with LEDs and acoustic signal.</p> <ul style="list-style-type: none"> • Detects 4 states: low, high, illegal and high impedance • Can be constructed for TTL or CMOS levels • Operates from 5 V to 15 V • Enclosure included 	<p>easy</p> <p>SMD: some (0805)</p> <p style="text-align: right;">12,- €</p>
	<p>AntiKippenLights-Mini</p> <p>18 red LEDs in a heart or arrow shape which display several animations, some with fading.</p> <ul style="list-style-type: none"> • Fits into a matchbox • Animations hardcoded, can only be changed with knowledge of AVR assembly language • Pre-programmed controller (ATtiny2313) • CR2032 button cell battery included <p style="text-align: right; color: blue; font-weight: bold; font-size: 2em; transform: rotate(-15deg);">Heart or Arrow</p>	<p>fairly easy</p> <p>SMD: yes LED: red</p> <p style="text-align: right;">5,- €</p>
	<p>TicTacLights USB Retrofit</p> <p>Adds USB port for power and data (MCUF streaming) to all old revisions of the TicTacLights and TicTacLights Colour kits.</p> <ul style="list-style-type: none"> • For TicTacLights Rev. 1.0, Rev. 2.0 and Rev. 3.0 • For TicTacLights Colour Rev. 1.0 	<p>advanced</p> <p>SMD: yes</p> <p style="text-align: right;">5,- €</p>

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All projects below use the “BlinkenPlus” firmware . It supports playing animation files from an MMC/SD/SDHC card (FAT16 or FAT32, file formats BIN, BBM, BLM and BML described in the BlinkenArea wiki) or an RS232 or USB (using a virtual serial port) MCUF stream (format documented in the BlinkenArea wiki). They also output a stream of all displayed frames (regardless of source), so one project can act as a master for others (if they have the same resolution). Animation files can be created with “Blimp”, a “Paint”-like GUI where you can draw and set the display duration for each frame. Alternatively you can use the available converters from “BlinkenLib” and the “bl” output plugin for mplayer, or write your own scripts that generate BlinkenStreams or BlinkenMovies.

	<p>TicTacLights Colour</p> <p>Small BlinkenLights clone (18 x 8 = 144 pixels, aspect ratio 0.55) with size 0805 RGB LEDs. Fits into a regular TicTac box.</p> <ul style="list-style-type: none"> • Size: approx. 57 x 33 mm • Plays animations from Micro-SD card or USB stream • Powered from USB or other 5 V source. • Pre-programmed controller (Atmega162) • Mini-USB cable included 	<p>very difficult</p> <p>SMD: 0.65 mm LED: RGB</p> <p>30,- €</p>
	<p>TicTacLights Nano Colour</p> <p>Minuscule version of TicTacLights Colour with size 0404 RGB LEDs. Fits into a mini TicTac box. Reflow soldering required.</p> <ul style="list-style-type: none"> • Size: approx. 31 x 20 mm, doesn't tile • Plays animations from Micro-SD card or USB stream. • Powered from USB or rechargeable battery (included!). • Pre-programmed controller (ATmega162) • Micro-USB cable included • TicTac box included <p>Workshop Days 2 & 3</p>	<p>Ph'nglui mglw' nafh Cthulhu R'yeh wgah' nagl fhtagn</p> <p>SMD: 0.5 mm LED: RGB</p> <p>45,- €</p>
	<p>ArcadeNano</p> <p>Smaller version of the ArcadeMicro with size 0603 SMD LEDs. Fits into a regular TicTac box.</p> <ul style="list-style-type: none"> • Size: approx. 33 x 57 mm (fits into a small TicTac box) • Plays animations from Micro-SD card or USB stream • Powered from USB or other 5 V source. • Pre-programmed controller (Atmega162) • Mini-USB cable included 	<p>very difficult</p> <p>SMD: 0.65 mm LED: orange</p> <p>60,- €</p>