

LIGHTPAINTING WITH LED STRIPES

A 30C3 LIGHTNING TALK
BIGALEX -AT- C3D2 -DOT- DE



THIS PAGE HAS BEEN INTENTIONALLY LEFT BLANK FOR THE

LIFE DEMO

CREDITS FOR THE CONCEPT



THE MECHATRONICS GUY

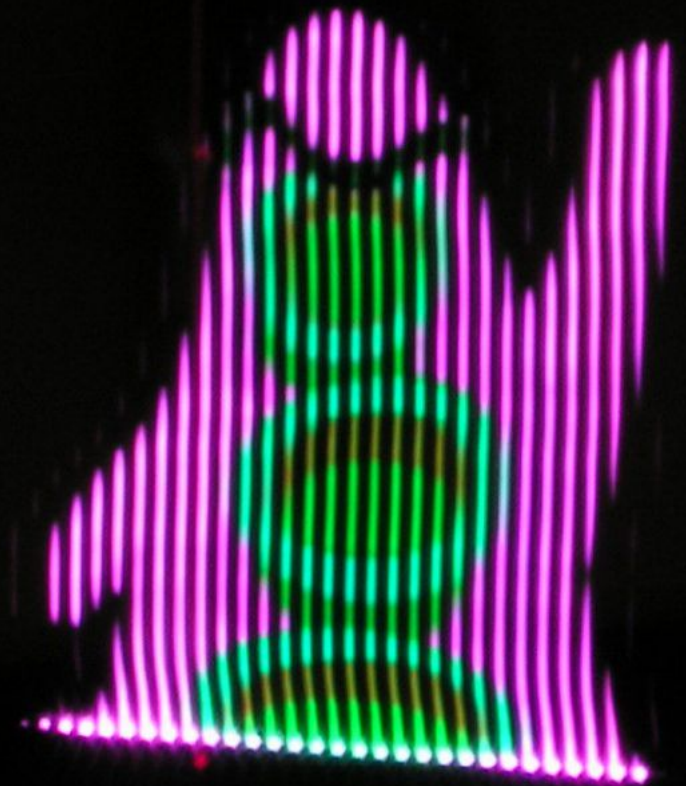
[HTTPS://SITES.GOOGLE.COM/SITE/MECHATRONICSGUY/LIGHTSCYTHE](https://sites.google.com/site/mechatronicsguy/lightscythe)



IMMATERIALS: LIGHT PAINTING WIFI

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[HTTP://WWW.NEARFIELD.ORG/2011/02/WIFI-LIGHT-PAINTING](http://www.nearfield.org/2011/02/wifi-light-painting)



3S LiPo

HOW? - HARDWARE

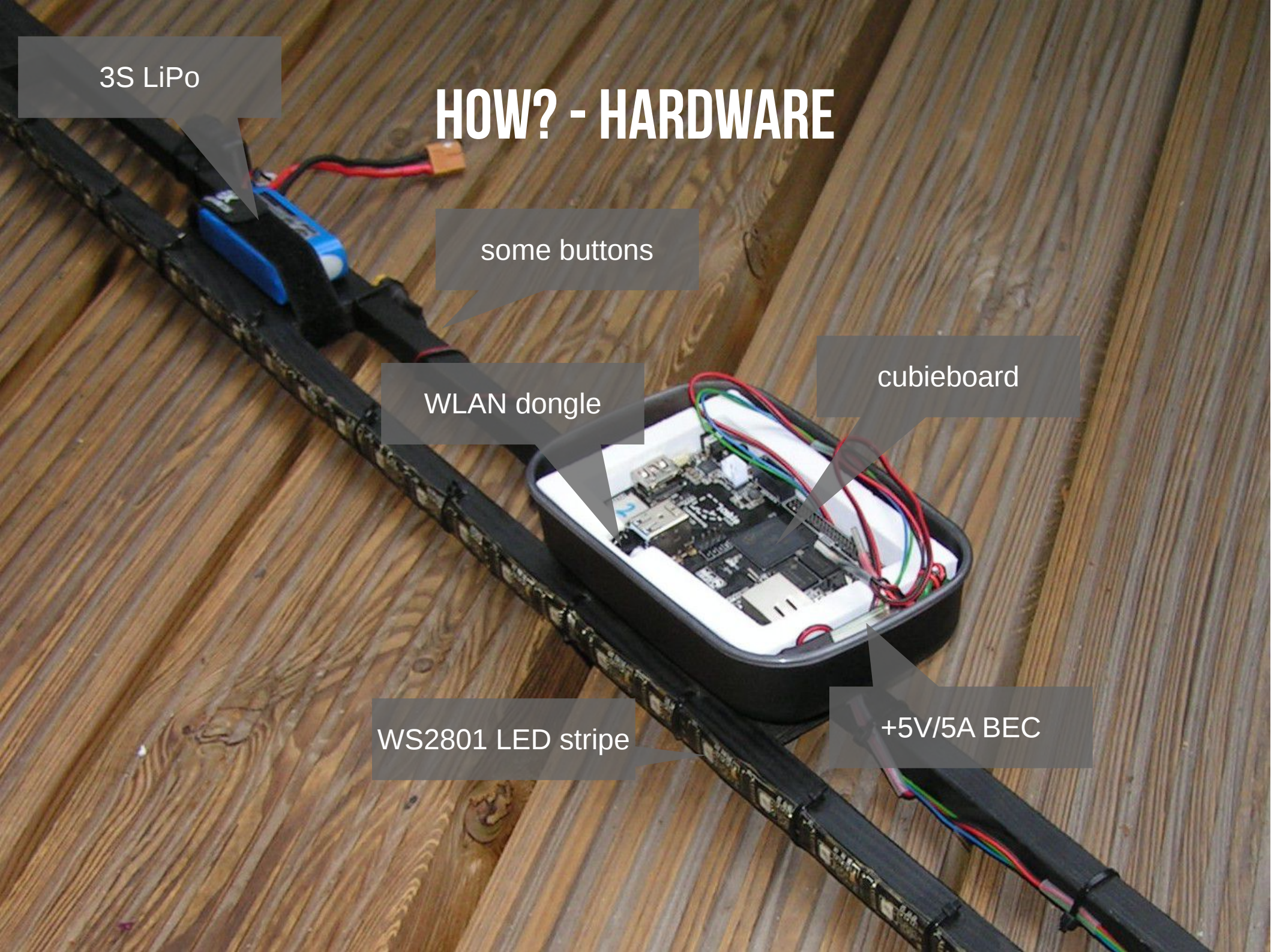
some buttons

WLAN dongle

cubieboard

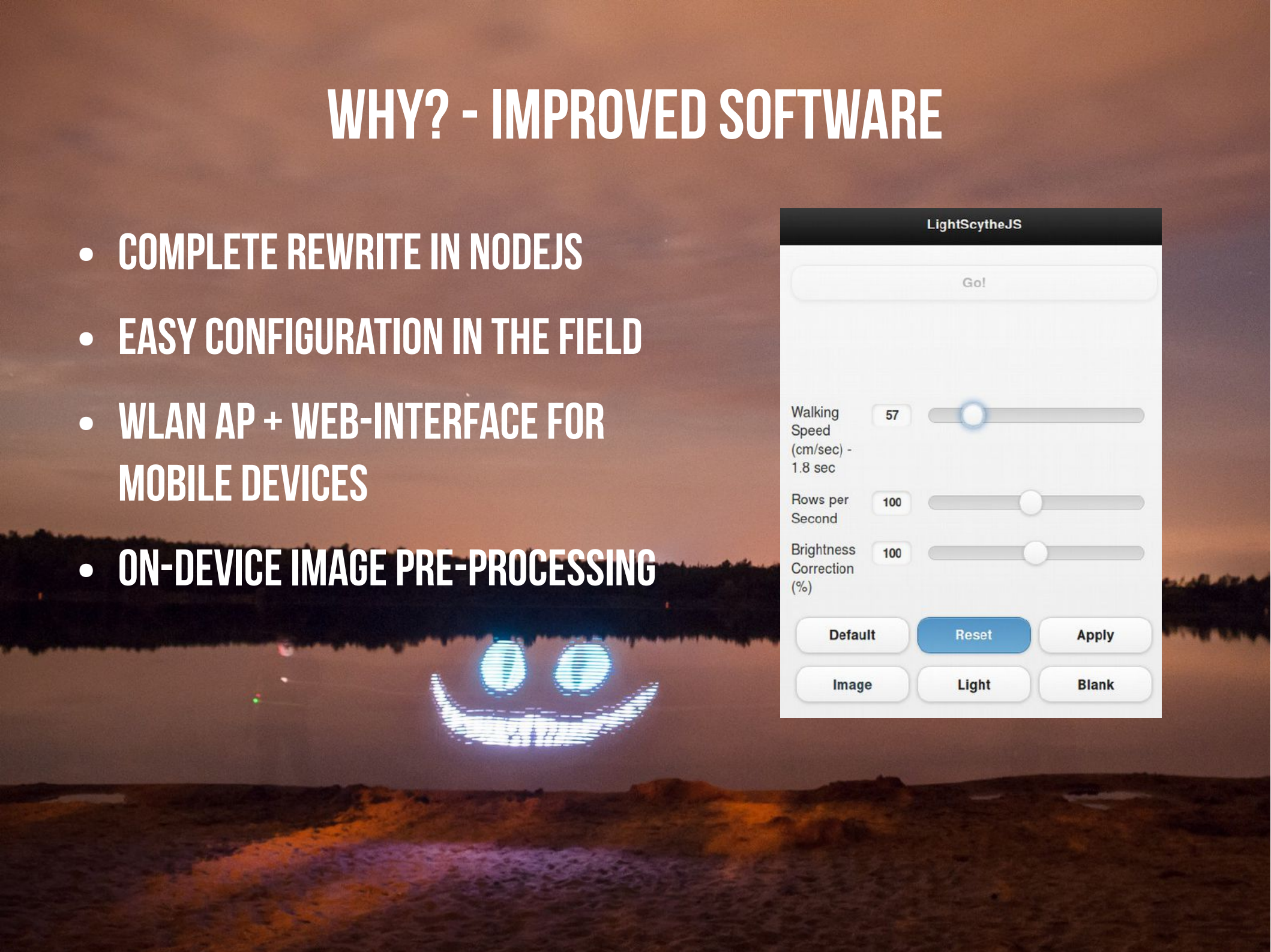
WS2801 LED stripe

+5V/5A BEC



WHY? - IMPROVED SOFTWARE

- COMPLETE REWRITE IN NODEJS
- EASY CONFIGURATION IN THE FIELD
- WLAN AP + WEB-INTERFACE FOR MOBILE DEVICES
- ON-DEVICE IMAGE PRE-PROCESSING



The background image shows a dark lake at night with a large, pixelated smiley face projected onto the water's surface. The face has two glowing blue eyes and a wide, curved mouth made of horizontal lines. The surrounding landscape is dark and rocky.

LightScytheJS

Go!

Walking Speed (cm/sec) - 1.8 sec: 57

Rows per Second: 100

Brightness Correction (%): 100

Default Reset Apply

Image Light Blank

WHERE? - LET'S PLAY!

- TODAY AT 19:30 — OUTSIDE MAIN ENTRANCE/EXIT AREA
- BRING YOUR CAMERAS AND TRIPODS
- PREP YOUR OWN IMAGES, SEND THEM TO ME UNTIL 19:00
- JPEG, PNG (WITHOUT ALPHA CHANNEL)



SHORT SIDE
100-300 PX

[HTTPS://EVENTS.CCC.DE/CONGRESS/2013/WIKI/SESSION:LIGHT_PAINTING_WITH_LED_STRIPES](https://events.ccc.de/congress/2013/wiki/session:light_painting_with_led_stripes)



THANK YOU FOR LISTENING

BIG THANKS FOR THE PHOTOGRAPHS TO
CHRISTIAN [HTTP://UNIVERSALIST.TUMBLR.COM/](http://universalist.tumblr.com/)
MARTIN [HTTP://MARTIN.WEICKERSDORF.DE/](http://martin.weickersdorf.de/)