DMX Lighting for beginners.

Workshop plan.

Slides + Examples.

Connecting to hardware from your machines.

Your own projects.

DMX Hardware.









Serial/USB to DMX.

Ethernet to DMX. (Artnet)





Standalone device that outputs DMX.
(Like an Arduino)



Friday, 16 March 12



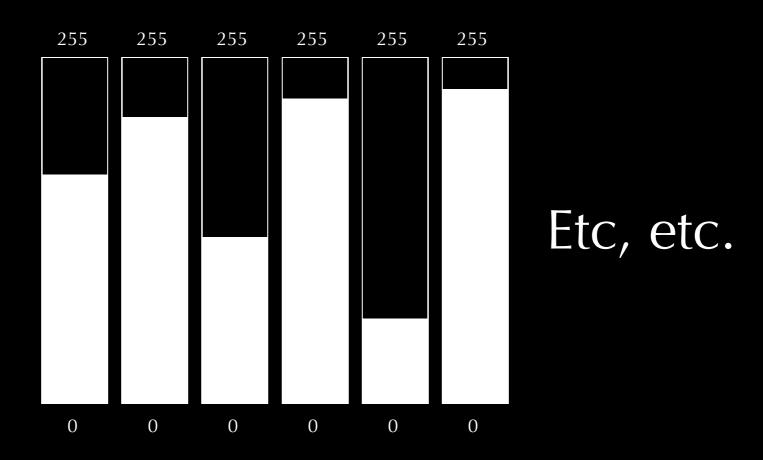
Bytes, bytes, bytes.





The DMX-512 protocol.

DMX packet



512 of them, but you can send fewer.

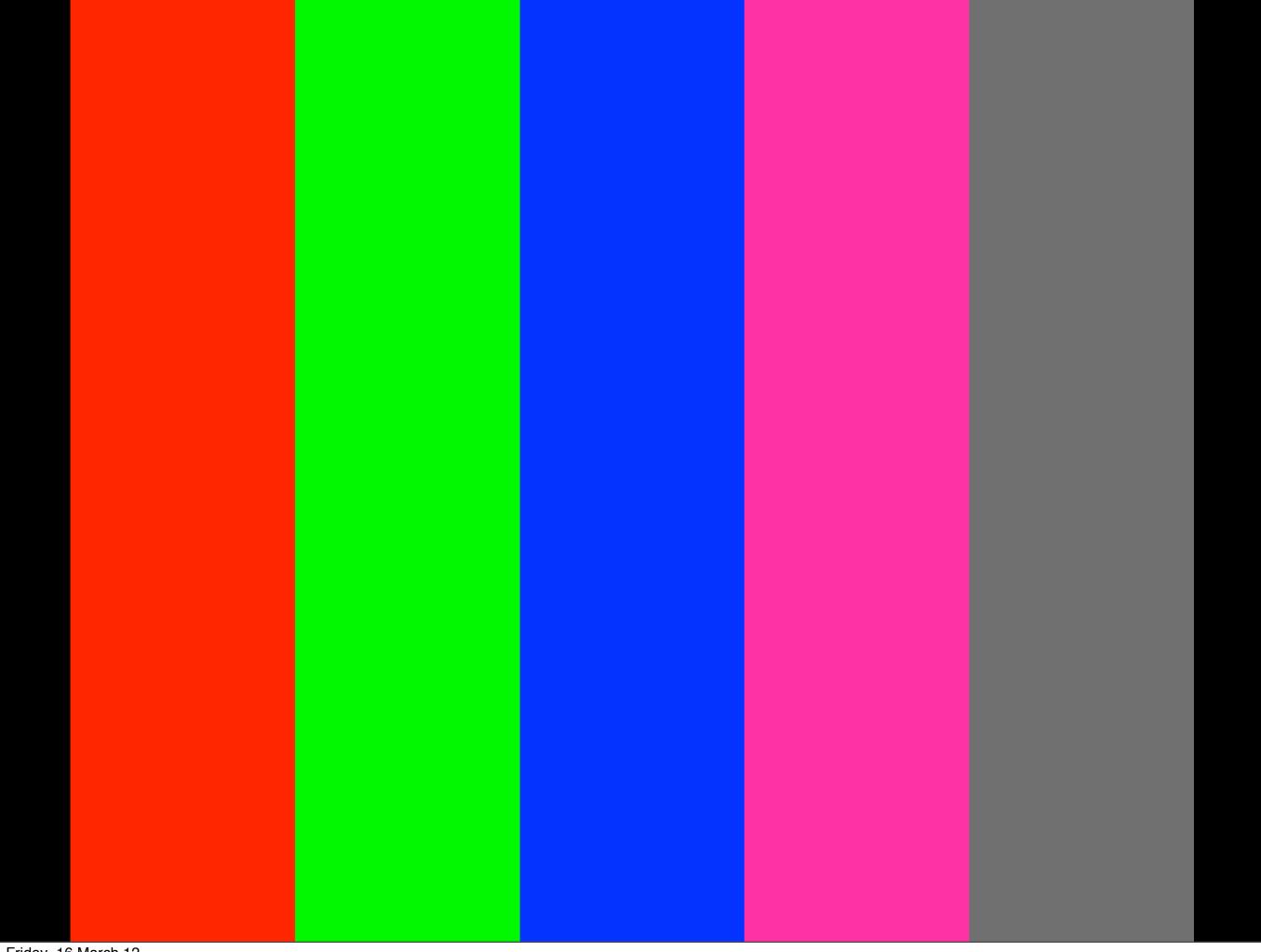
DMX packet

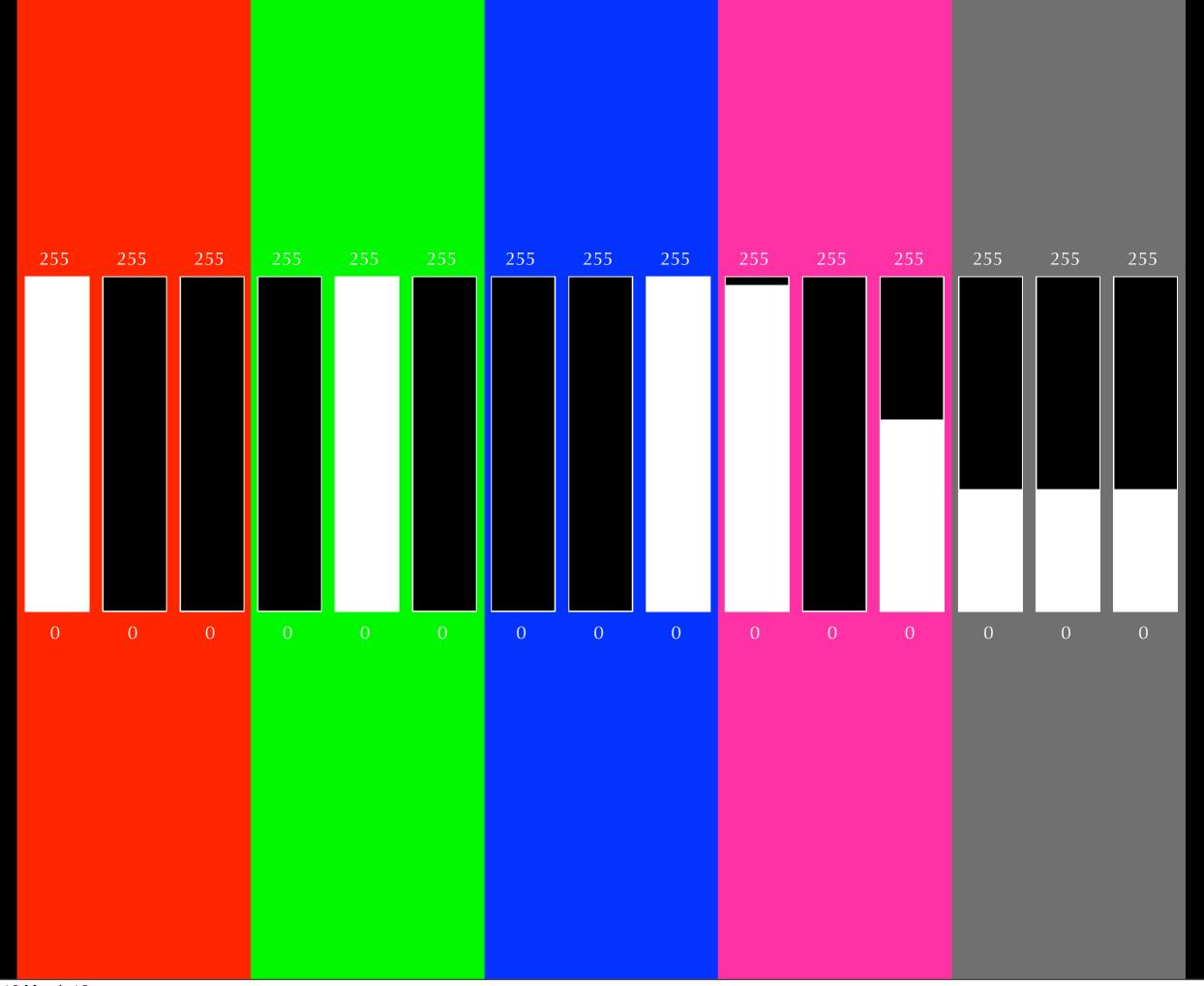
172 215 125 229 64 236 (Etc, etc)

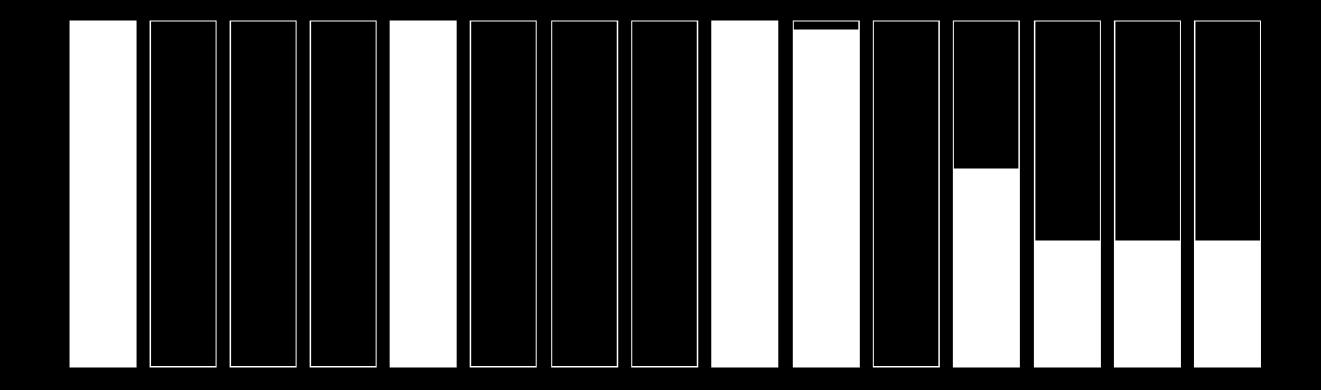
512 of them, but you can send fewer.

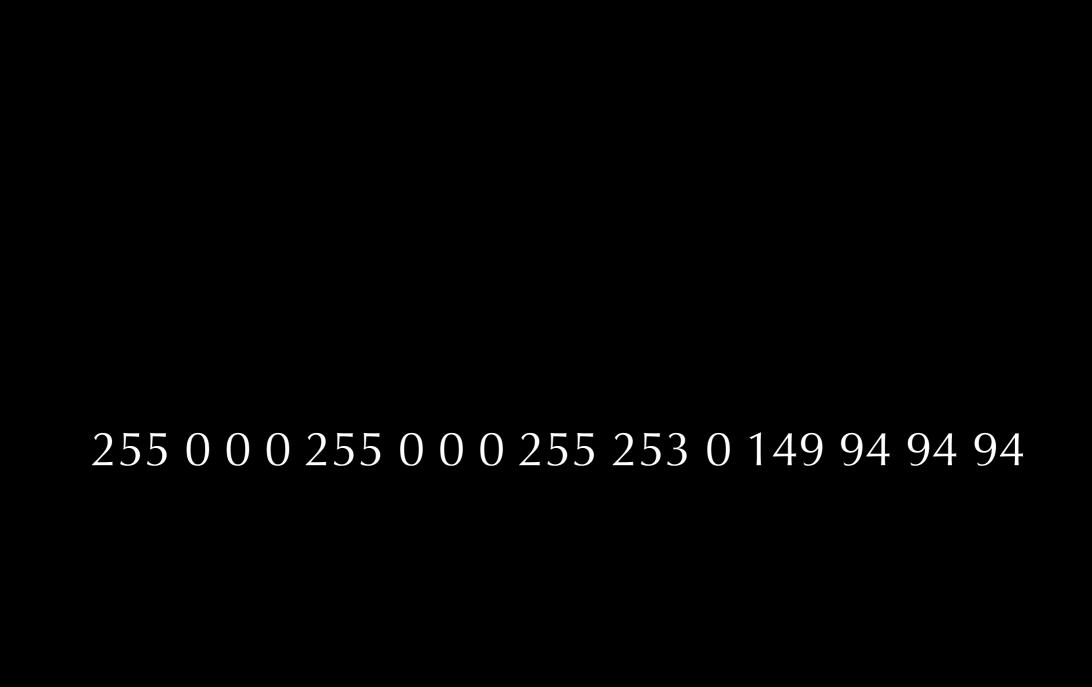
Dimmer Example.





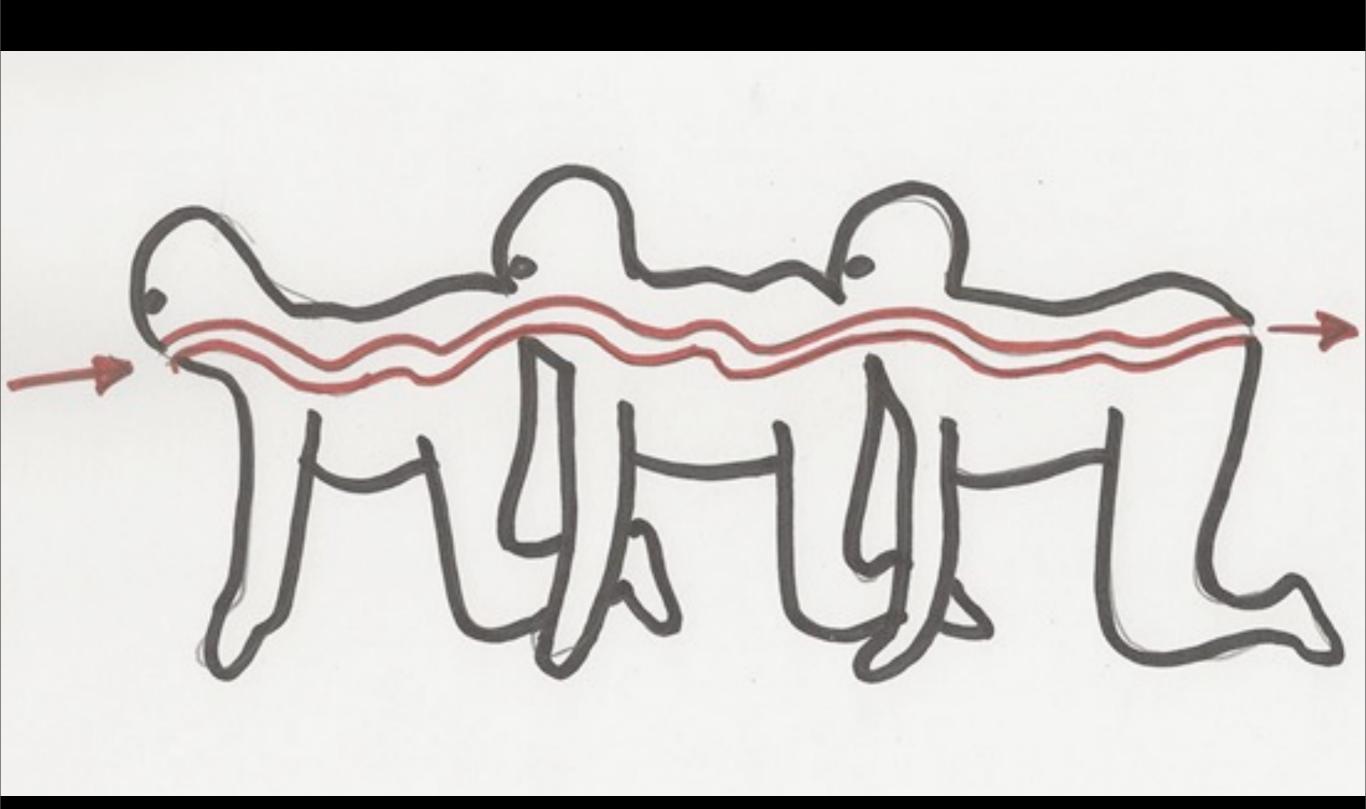


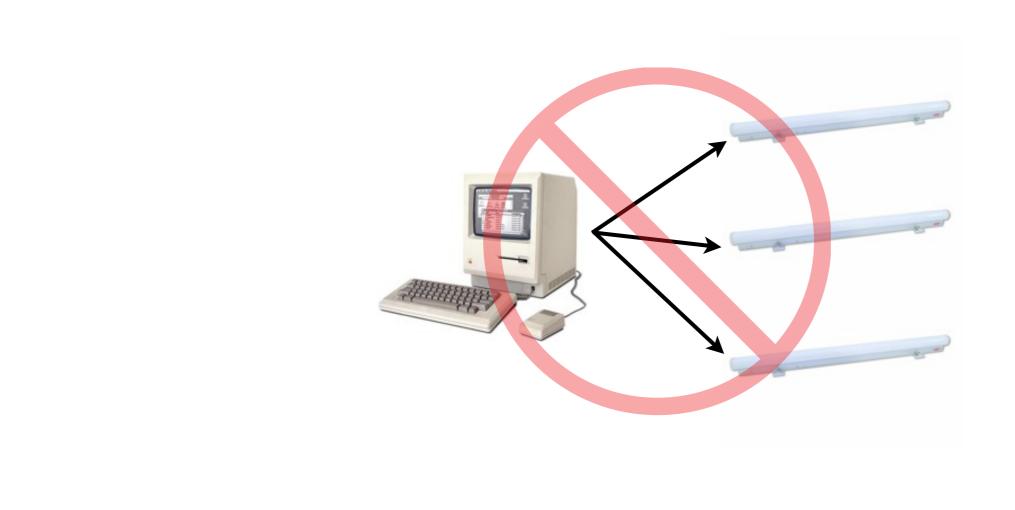


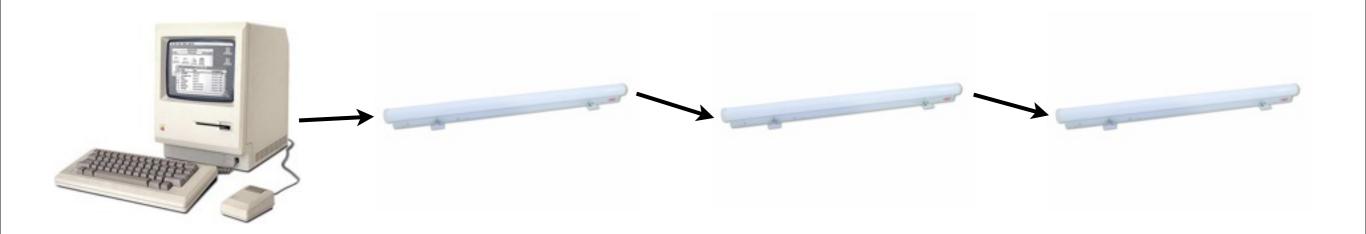


Always check the manual for your fixture, it might have a channel for intensity, for blink-rate, etc.

Daisy Chaining.



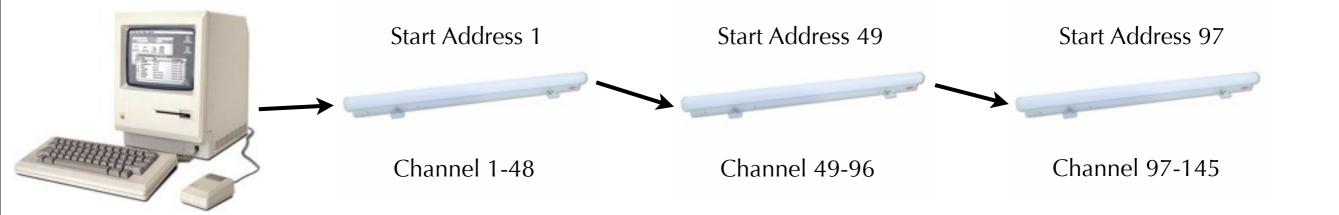




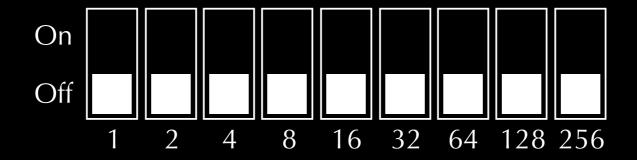
So how does each light know which channel(s) to listen to?

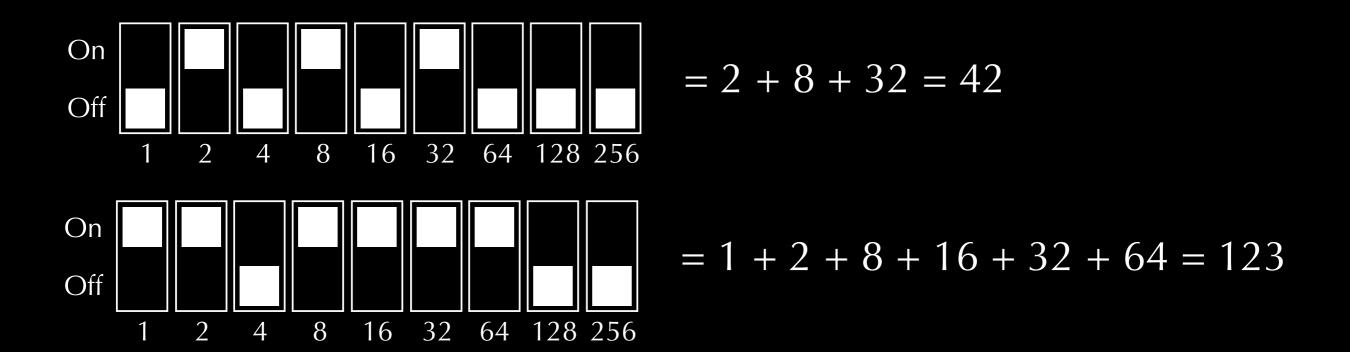
The DMX Start Address

Each tube needs 48 channels.













Each DMX-512 Universe has 512 channels. Think: Universe == DMX output.



Dealing with multiple universes is usually done by using Artnet boxes. (Ethernet to DMX)

(RGB Tubes Example)

(Strobes Example)

"Each One Teach One."