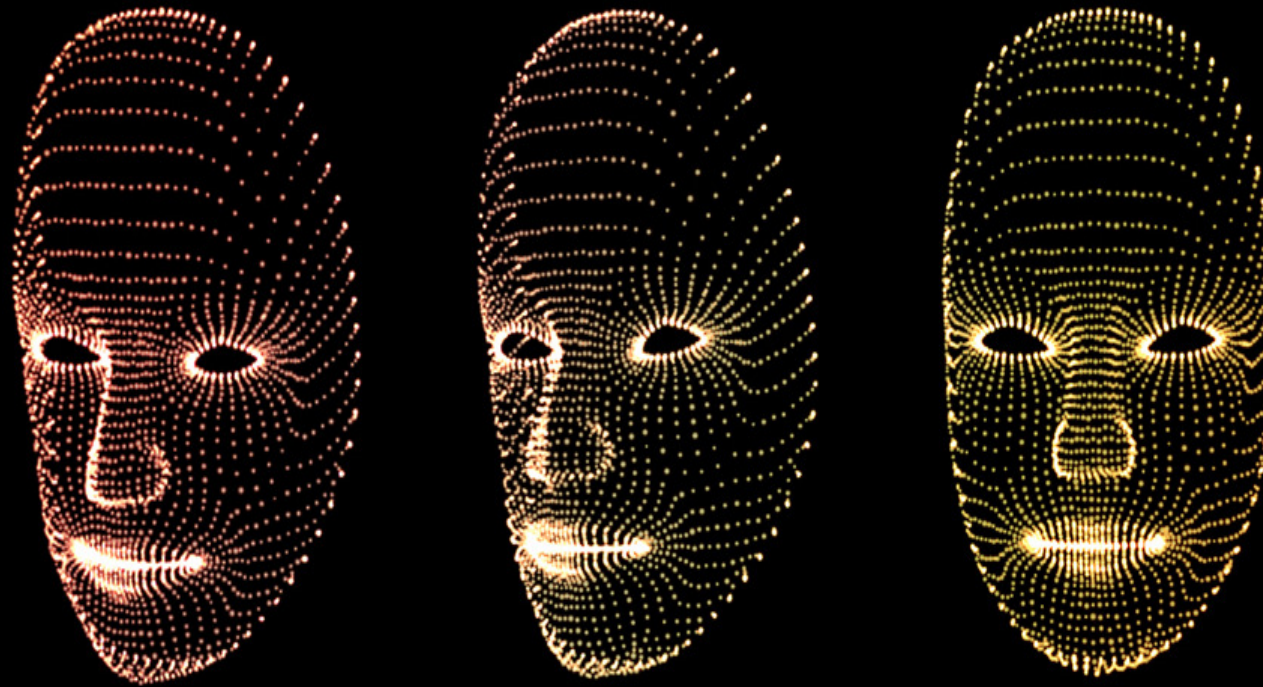# FLYING PIXELS - FLYFIRE

Keywords
Flying pixels, Spatial animation, Animated light control

Input
Single 2D/3D object Animation

Output:
Swarm of pixels in space(flocking, free form, vector and raster image display)

Technology:
Multi-coloured light source controlled in synchrony, 3D scanning in real time, Motion capture

Flyfire:

A Project by:
senseable city lab:.::

In collaboration with:
ARES

senseable.mit.edu/flyfire

MIT

FLYING PIXELS - FLYFIRE

Description:

Changing works of pixel art is the new thing. Flyfire, a project initiated in 2010 by the SENSEable City Laboratory in collaboration with ARES Lab (Aerospace Robotics and Embedded Systems Laboratory), makes this possible. It aims to transform any ordinary space into a highly immersive and interactive display environment. It enables you to change each pixel's position and transform the art you're looking at into an entirely different piece.

Flyfire uses a large number of remotely controlled, self-organizing "micro helicopters" with an LED inside that can change position and transform an image from one to another in real time. These micro helicopters acts as the smart pixel. With the ability to synchronize each Flyfire it actually creates an complete object. Flyfire serves as an initial step to explore and imagine the possibilities of this free-form display: a swarm of pixels in a space.

Links:
http://senseable.mit.edu/flyfire/
https://www.youtube.com/watch?v=CnEN9B18v6Q#t=31