Portfolio

Visualizing Wifi Using the Wifi Camera

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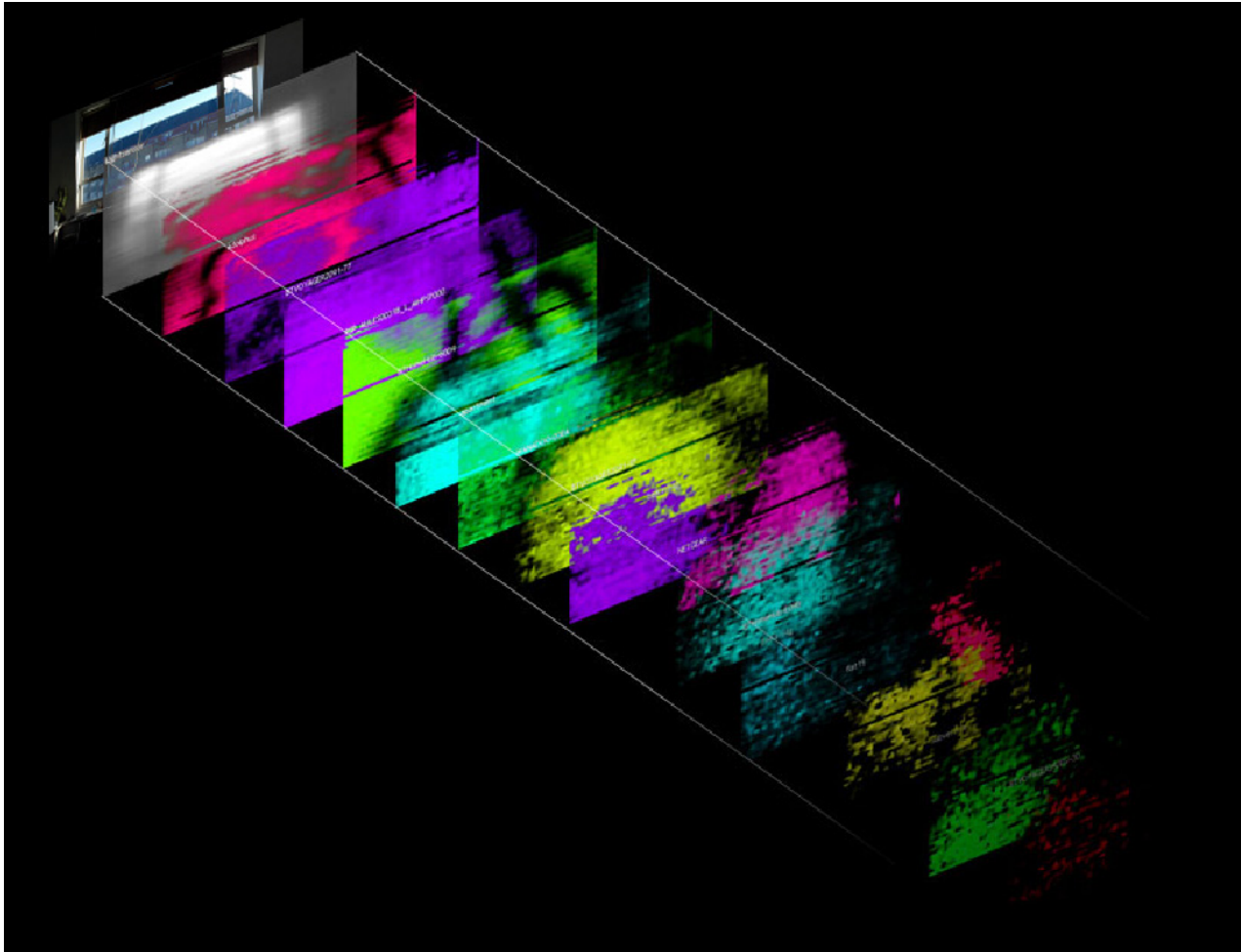
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Fig. 1. Image of fifteen Wifi networks (each allocated an arbitrary colour) permeating a domestic living room.
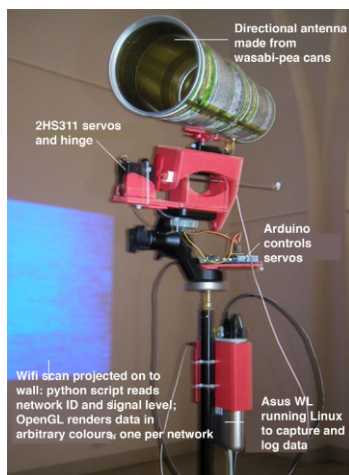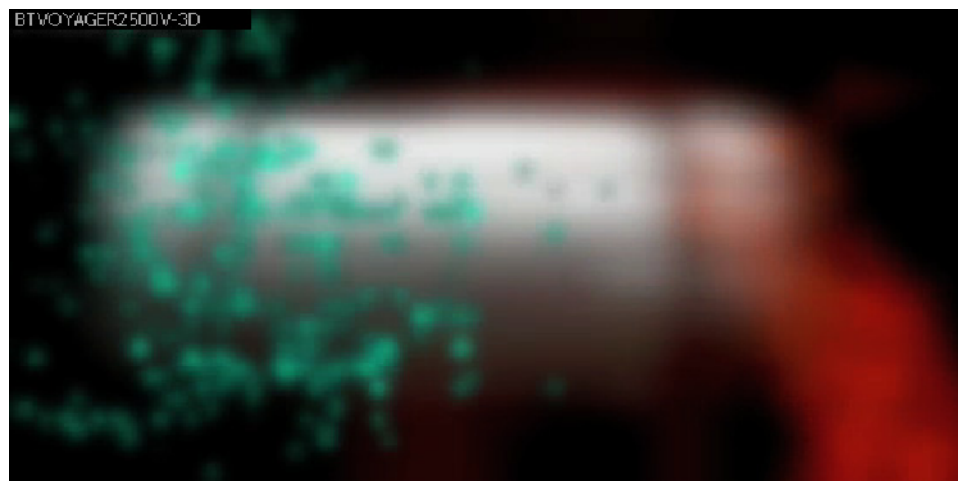

Fig. 2. Equipment.

Fig. 3. View of two Wifi networks coming through a window (arbitrary colours).

These images were created using a "Wifi Camera" custom designed by Somlai-Fischer, Sjölén and Haque (information available at <http://wificamera.propositions.org.uk/>). It makes a use of a directional 2.4GHz wifi antenna mounted on servos scanning an environment at varying resolutions, measuring signal strength of all present networks to generate an image of the wifi "view" of the space. A light sensor is mounted on the antenna in order to generate a visible-light image that confirms precise orientation.