



# 27 lines

of HD video at a human scale

This 19.2 meter long poster blows up each pixel to a 1 cm square <sup>(1)</sup> and shows only 2.5% of a whole frame. At this scale, a whole frame would stretch down to the 3<sup>rd</sup> floor and, at 25 frames per second, it would only take about 24 hours to fill Dock House with paper <sup>(2)</sup>.

Now that HD video can be thrown around so casually by even the most humble smart phones it's easy to forget just how amazing technology is...

Have a fun day! (and bring on high frame rate, HDR UHD)

A silly side project by Jonathan Heathcote.

(1) A square centimeter is about as small as I can comfortably write three 8-bit numbers (in decimal). To be sure, every digit in this poster is written by a simple handwriting synthesiser based on my writing...

(2) Using data from DEFRA <sup>(3)</sup>, Dock house's footprint is approximately 1400 m<sup>2</sup> and, excluding the attached tower block and air conditioning plant, it is 33 m tall giving a total volume of 46 200 m<sup>3</sup>. A complete HD

frame is 1920 by 1080 pixels which at 1 cm per pixel is 19.2 by 10.8 m<sup>2</sup>. Assuming a typical paper thickness of 0.1 mm, each frame has a volume of 0.020736 m<sup>3</sup>. At 25 frames a second, the volume of paper grows at 0.5184 m<sup>3</sup> s<sup>-1</sup>. Therefore, to fill Dock House would take 89120.37 seconds, or 1 day, 45 minutes and 20.37 seconds.

(3) If you're keen enough to read a footnote's foot note, you're definitely going to enjoy playing with a LIDAR 3D scan of the whole of England and Wales: <https://tinyurl.com/defra-lidar>