

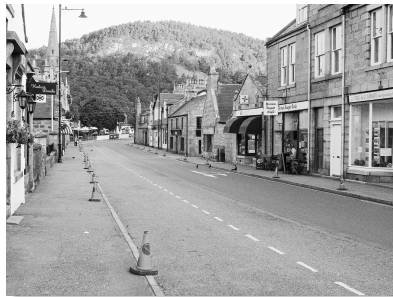
Where was that taken?

Kevin Houston
MathsJam, 17 November 2018

About me

- ❑ Lecturer at University of Leeds
- ❑ Education Secretary of the London Mathematical Society
- ❑ English Maths Week?

Old pictures

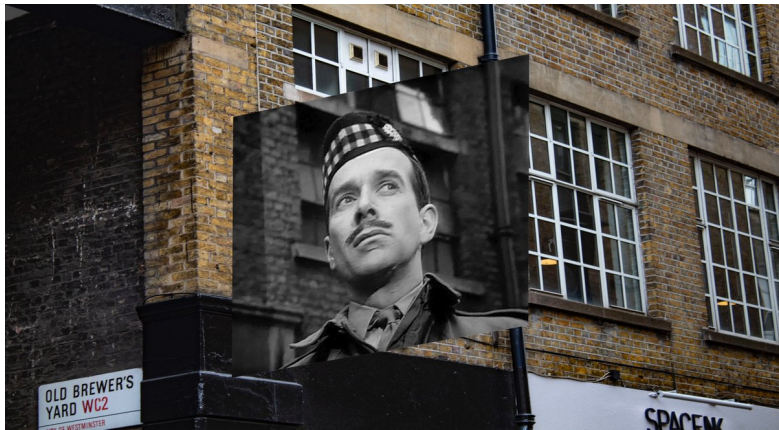


Old Pictures



Pic: Laura Eddey

Old Pictures



Source: Kieran Highman, Twitter

Old Pictures



Source: Kieran Highman, Twitter

Old Pictures



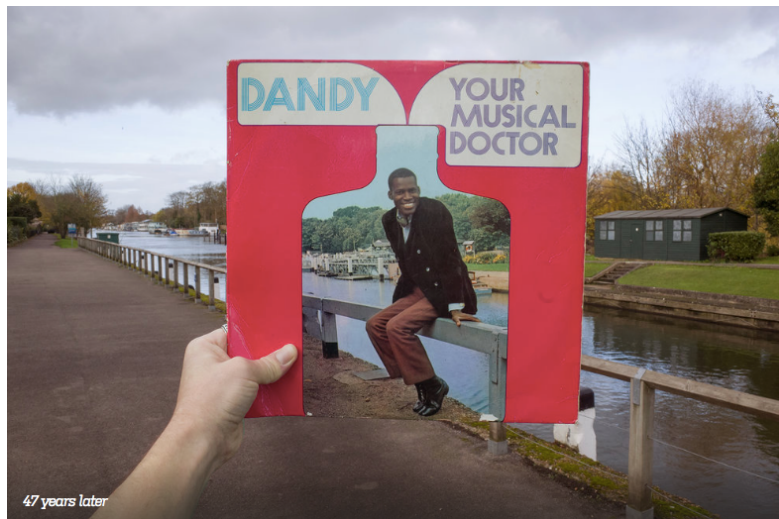
Pic: Alex Bartsch

Old Pictures



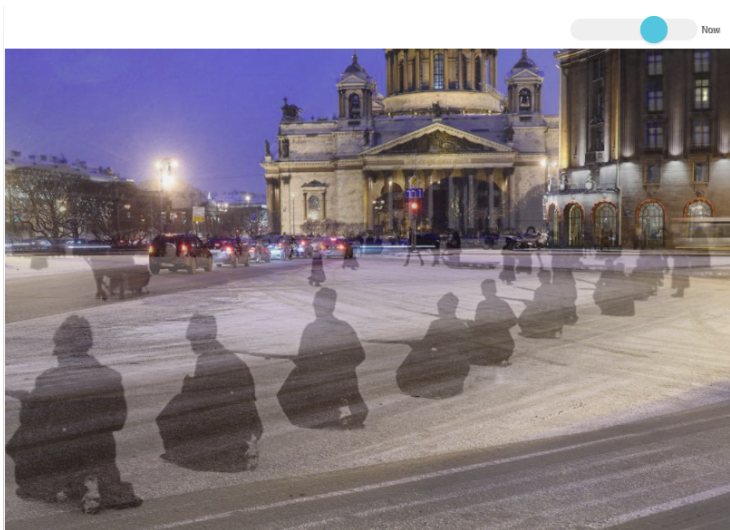
Pic: Alex Bartsch

Old Pictures



Pic: Alex Bartsch

Old Pictures



Pic: The Guardian: Then and Now

Where did the photographer stand?

- ❑ Where did the photographer stand?
- ❑ Work in progress.

Where the camera was – Byers and Henle

VOL. 77, NO. 4, OCTOBER 2004

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Where the Camera Was

KATHERINE McL. BYERS

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How many times have you seen something like this?

Then



Sources: Courtesy of The Bostonian Society/Old State House

Now



Simon Clay/Chrysalis Images

Mathematics Magazine

Where the camera was – Byers and Henle

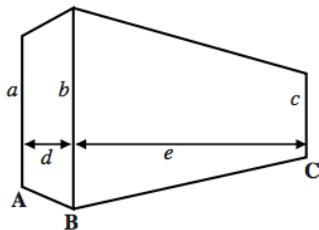
Proposition If a picture of a rectangular solid taken by a vertically-held pin-hole camera has measurements (on the photograph) of a , b , c , d , and e , then the camera was positioned

$$\frac{dc}{d(b-c) + e(b-a)} BC$$

to the left of B in the direction of C to B and

$$\frac{ae}{d(b-c) + e(b-a)} AB$$

in front of point B where BC and AB are on-site measurements.



Around Leeds



Pic: Leodis.net, ID 10070

Around Leeds



Future

- ❑ Increase accuracy.
- ❑ Find photographs with meaning.
- ❑ Effect of focal length? (Lens compression)

Thanks for listening

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