

Practical Pinhole Photography

Why do photographs have to be pin sharp?



Photo: Nick Prior



Photo: Nick Prior

High quality results are possible



Photo: Bill Hume

High quality results are possible



Photo: Bill Hume



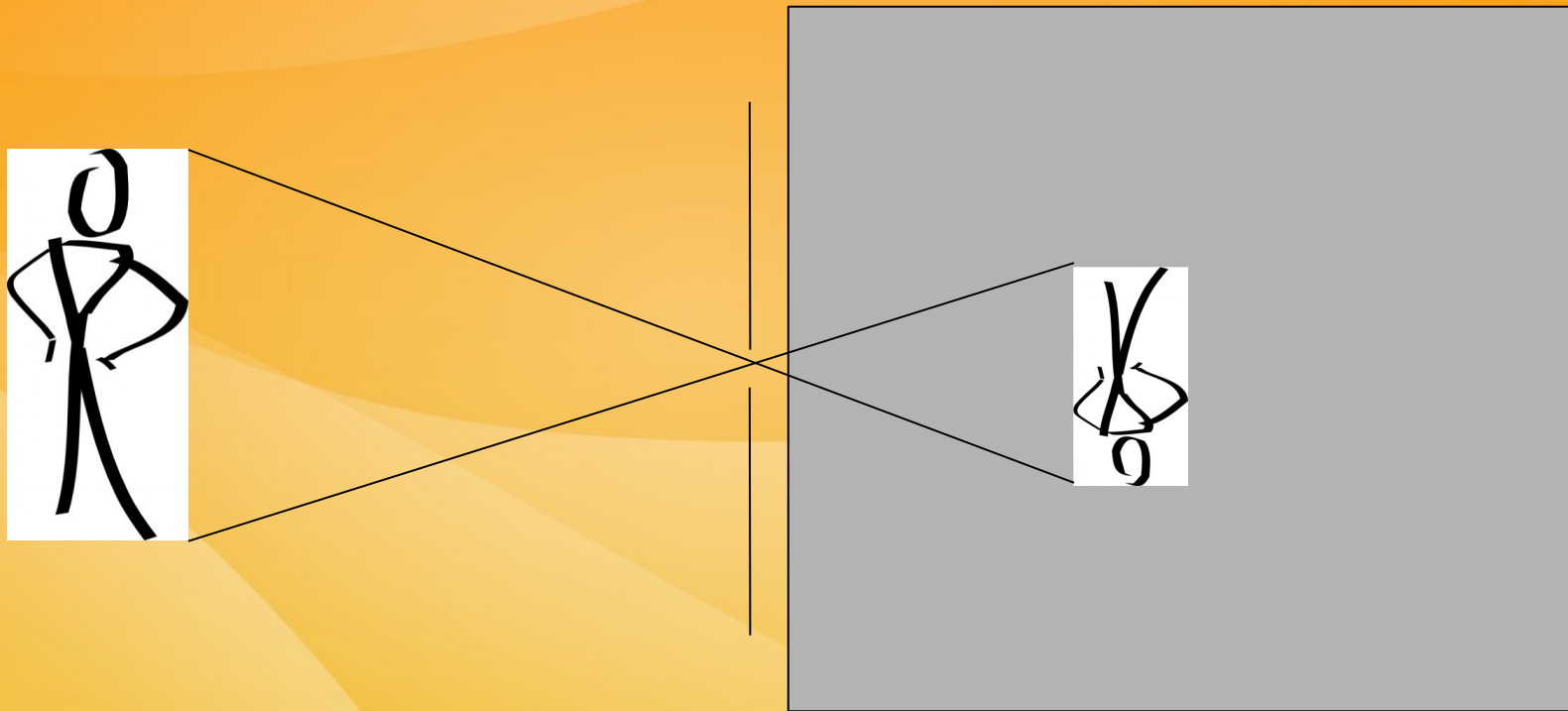
Photo: Bill Hume

DSLR with home made pinhole

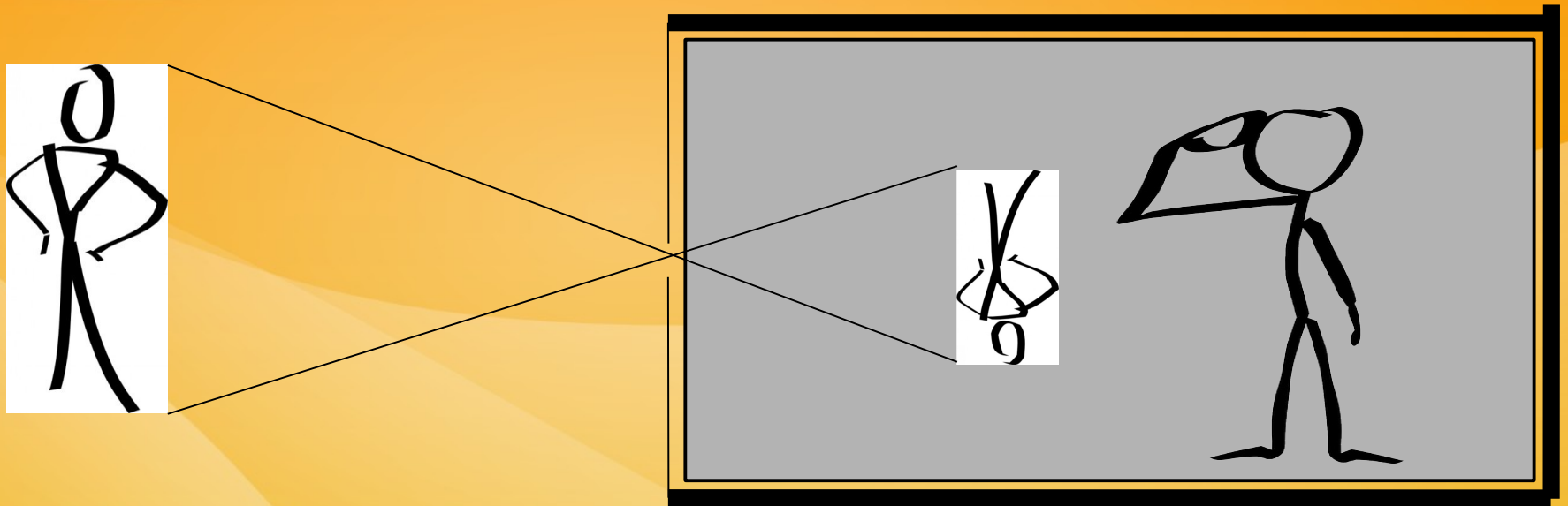


Photo: Nick Prior

Simplest imaging systems



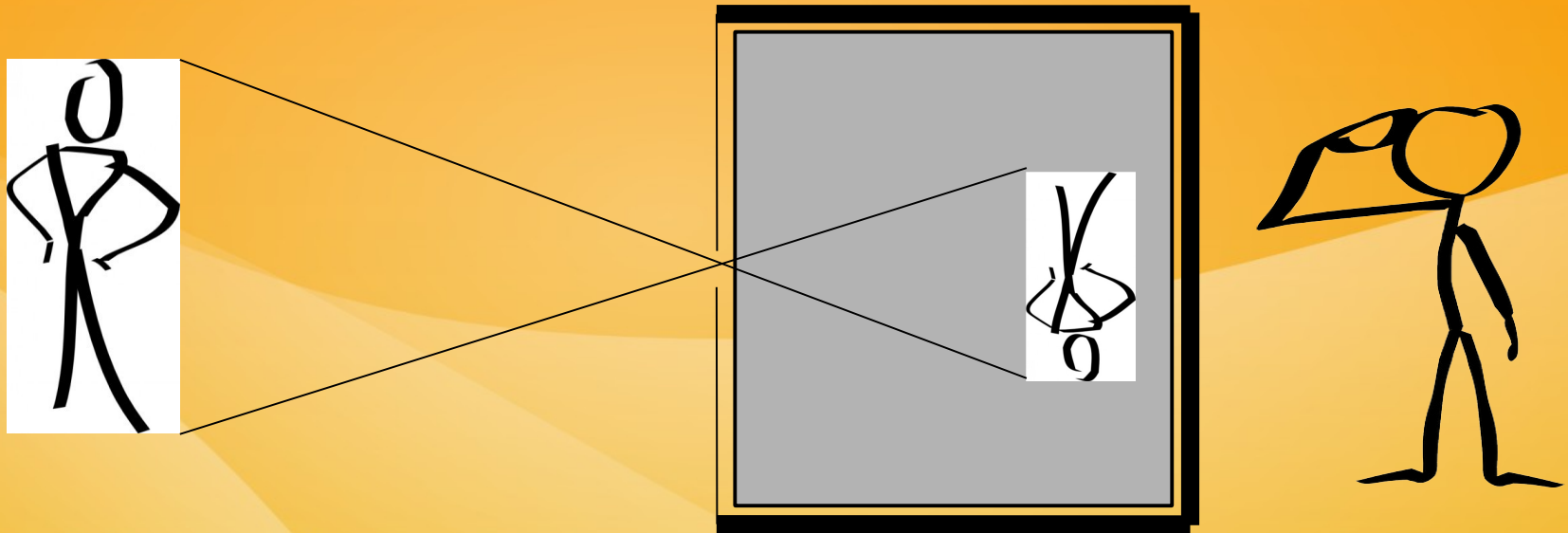
Camera obscura



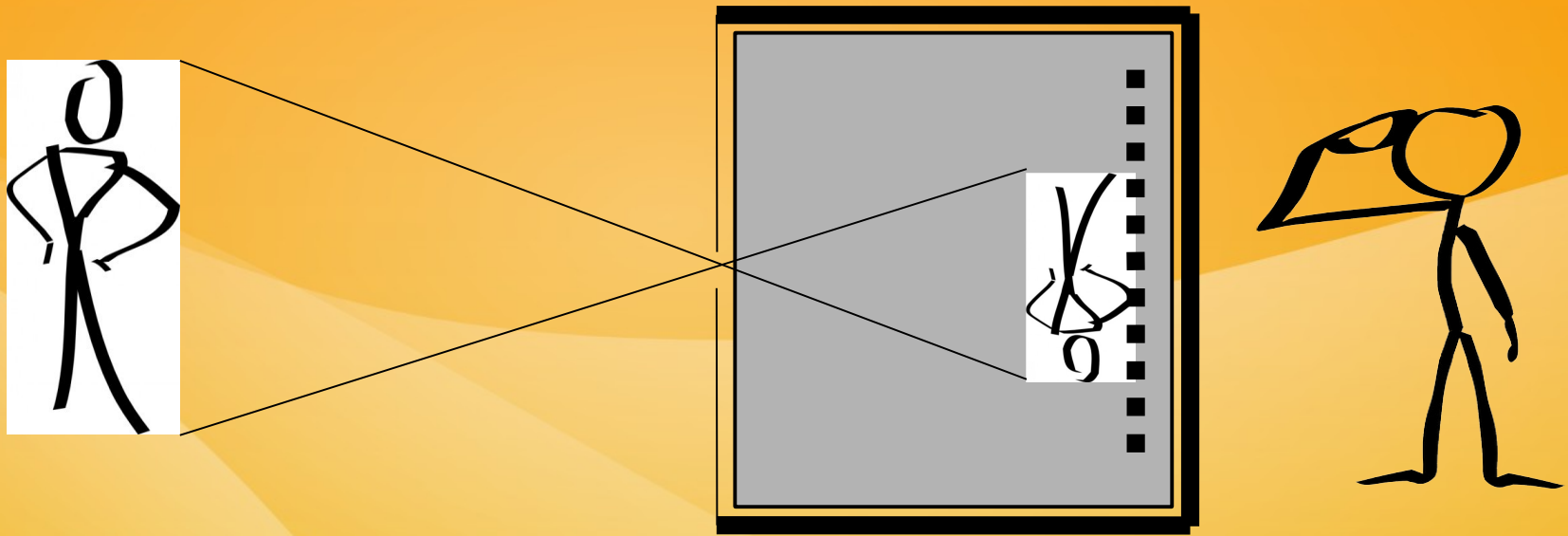
Did this really work?



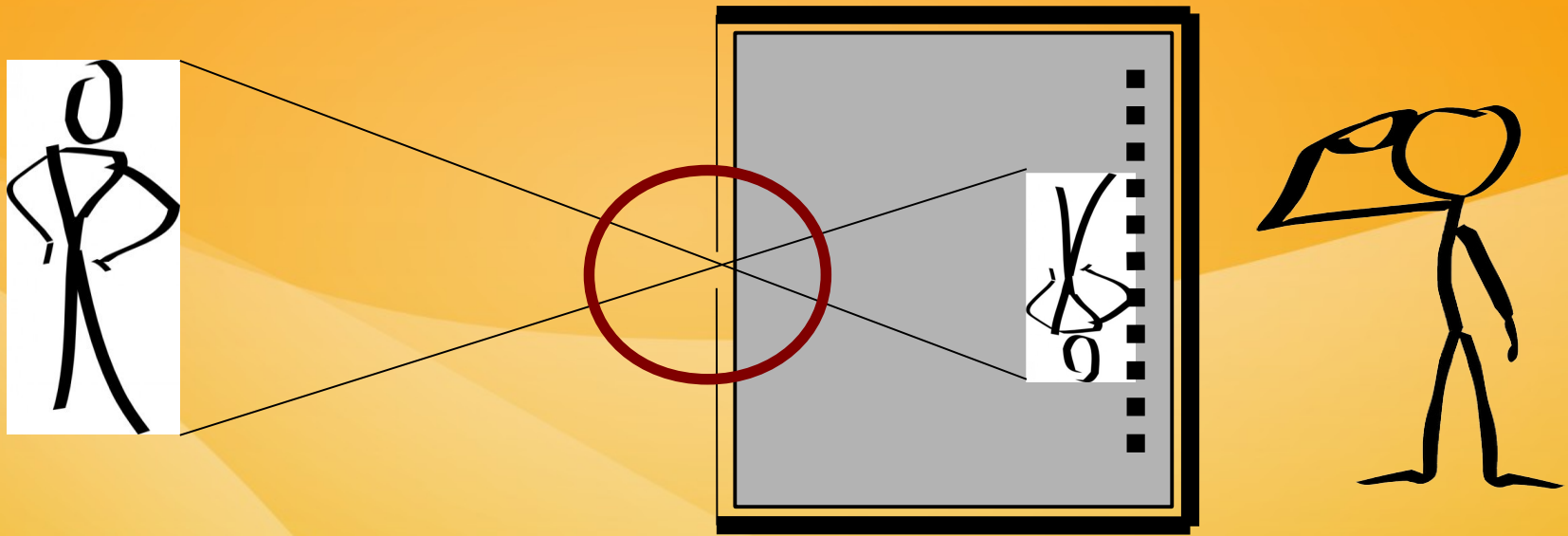
Viewing box



Light sensitive camera



Size is important!



Pinhole camera



Pinhole camera



Pinhole camera



Photo: Nick Prior

Pinhole camera



Photo: Nick Prior

SLR pinhole



Photo: Nick Prior

Making a Pinhole

- Tin can
- Biro
- Needle
- Emery cloth or pad
- Camera body cap
- Drill

Pinhole Exposure

- Pinhole = 0.2mm – 0.4mm
- Lens aperture = 10mm – 15mm
- Exposures will be lo-o-o-ng
- Working out the f-number
 - Measure pinhole
 - F-number = focal length / aperture
 - F-number = 40mm / 0.2mm = f200!
- Or estimate (guess)

Pinhole Exposure

- Set ISO to 3200 (indoors) and Av (Aperture priority) setting
- Set aperture to f4 (or less) and take a picture
- Note the shutter speed
- Use calculator to match f-no and shutter speed
- Find pinhole aperture and read off shutter speed**
- Put pinhole on camera; set camera to Tv (Shutter priority) or M (manual)
- Set shutter speed** and take picture
- Adjust and try again!