

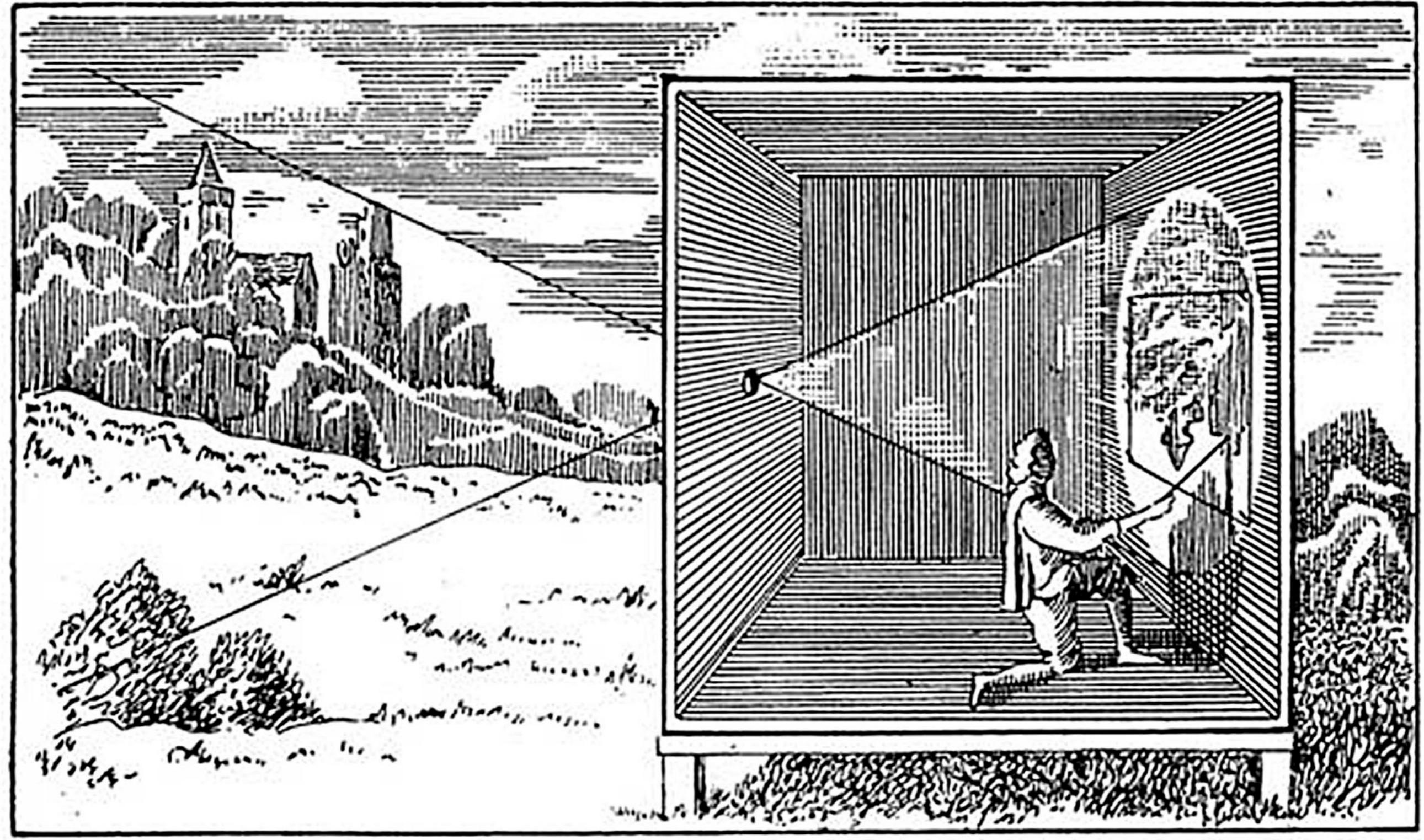
## *Look*

Per US Department of Defense dictionary of Military and Associated Terms:

"A period during which a mine circuit is receptive of influence."

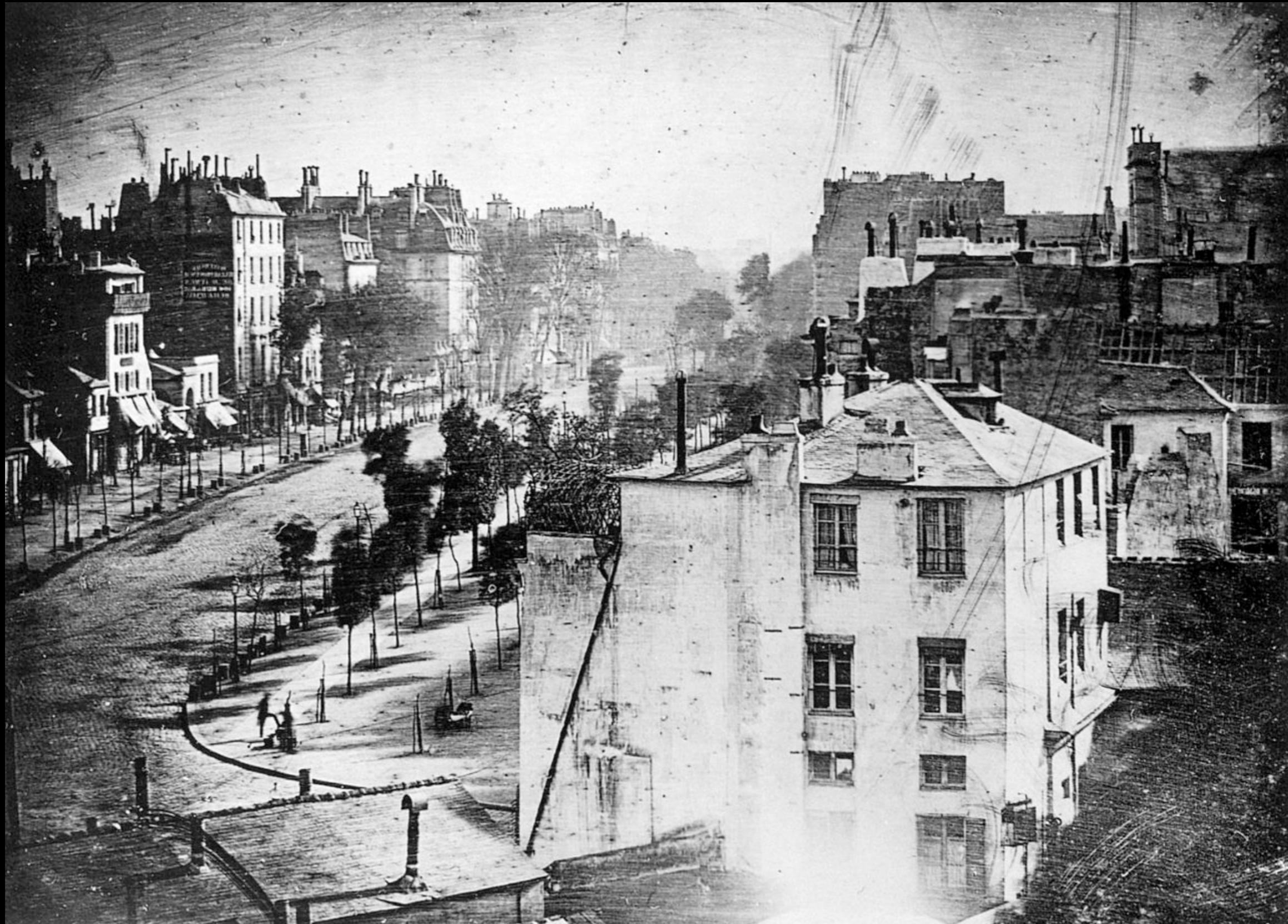


Oldest Surviving Photograph  
Nicéphore Niépce, France  
*View from the Window at Le Gras*, 1826-27



"Camera Obscura" 1604

camera obscuras as drawing tool - advancement of linear perspective



First Photograph of a Person  
Louis Daguerre, France  
*Boulevard du Temple, 1838*



Gustave Caillebotte  
*Paris Street: Rainy Day*, 1877



[ Henri Cartier-Bresson ]

Paris. Place de l'Europe.  
Gare Saint Lazare. 1932.



[ Stephen Shore ]

*South of Klamath Falls, U.S. 97, Oregon, July 21, 1973*

<h3>

<em> It all started with one essay --  
about some of the problems, aesthetic  
and moral, posed by the omnipresence  
of photographed images; but the more I  
thought about what photographs are,  
the more complex and suggestive they  
became... </em>

</h3>

— Susan Sontag, 1977

digital cameras are  
design after film  
cameras



Nikon FM 10  
35 mm film camera



ISO // ASA  
International Standards Organization  
American Standards Association

100 | 200 | 400 | 800 | 1000

**ISO // ASA == sensor's sensitivity to light**

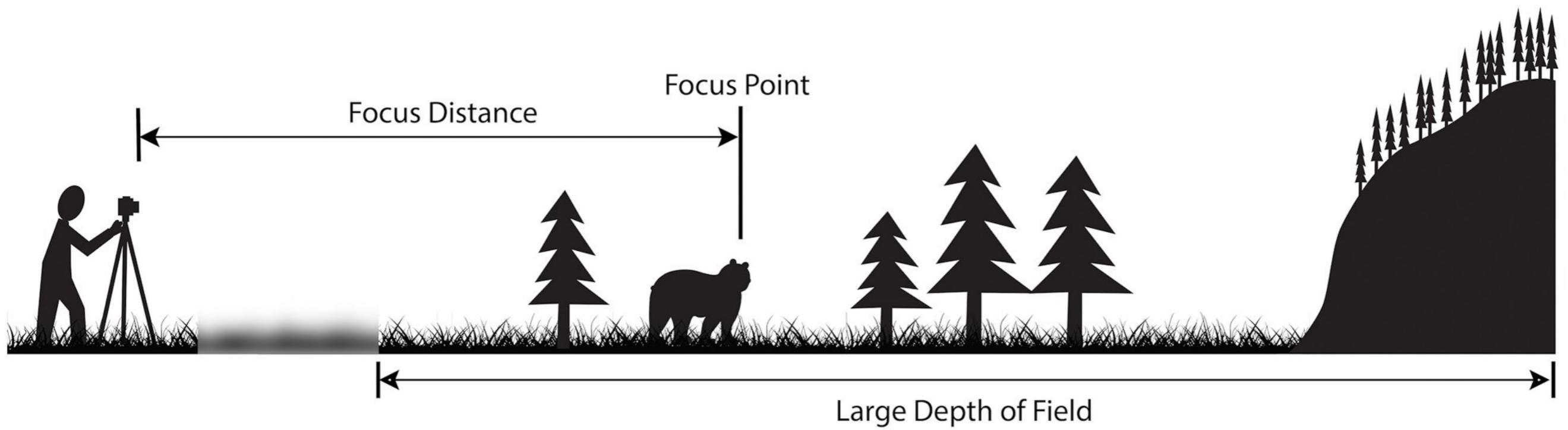
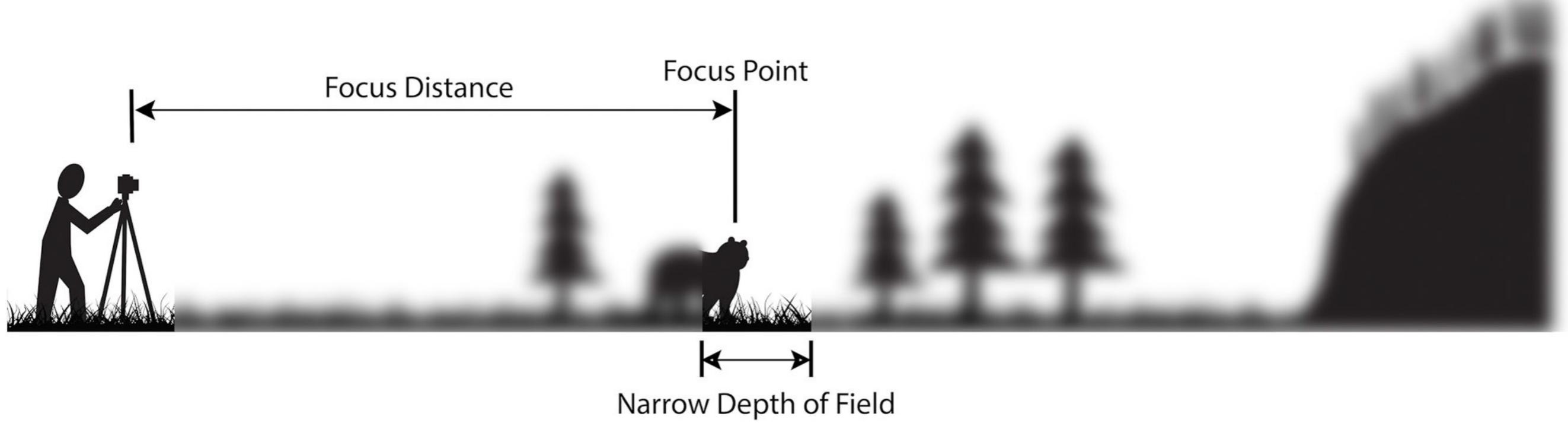
**100 | 200 | 400 | 800 | 1000**

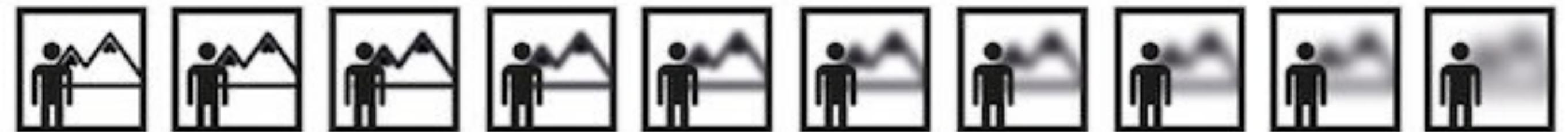
```
let theExposure;

function photographicParameters(fStop, shutterSpeed, iso){
    this.depthOfField = fStop;
    this.motion = shutterSpeed;
    this.grainNowNoise = iso;
    theExposure = fStop * shutterTime * iso;
}
```

# Depth of Field

is your plane of focus  
and is controlled by your  
aperture size (aka f stop)





F32 F22 F16 F11 F8 F5,6 F4 F2,8 F2 F1,4



1/1000 1/500 1/250 1/125 1/60 1/30 1/15 1/8 1/4 1/2



ISO 50 ISO 100 ISO 200 ISO 400 ISO 800 ISO 1600 ISO 3200 ISO 6400 ISO 12800 ISO 25600

- depth of field - how much is in focus  
- motion

# Aperture

how much light is exposed to the sensor while the shutter is open



f/1.8

f/2.8

f/4.0

f/5.6



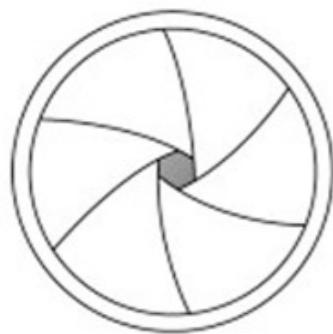
f/8

f/11

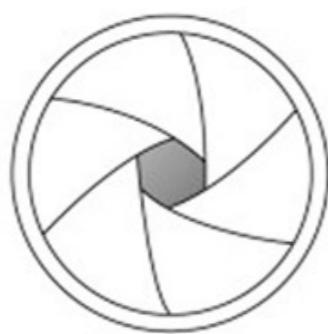
f/16

f/22

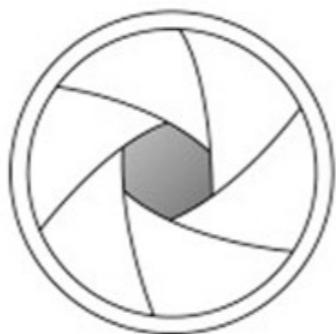
the smaller the FStop # - the less light let into the lens



F16



F10



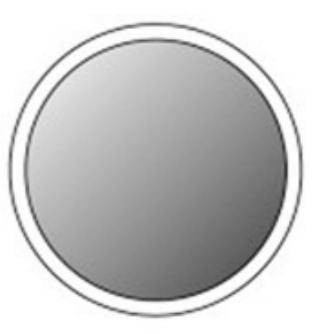
F6.3



F3.5



F2



F1.4

the smaller the FStop - the more information is in focus



Jeff Wall  
*Picture for Women, 1979*



Jeff Wall

After "Invisible Man" by Ralph Ellison, the Prologue, 2000



# Motion

shutter priority

# Shutter Speed

how long the sensor  
is exposed to the light  
coming thru the  
aperture



**1/1000**

**1/250**

**1/80**

FAST

SHUTTER SPEED

SLOW

STOP

MOVEMENT

BLUR

shutter controls movement

is whether a moving  
subject is frozen mid action  
or blurred and is controlled  
by your shutter **speed**



Carrie Mae Weems  
*A Single's Waltz in Time*, 2003

[ Gordon Parks ]

*Ali Training in Miami, 1965*

