Epsilon Photography

Object

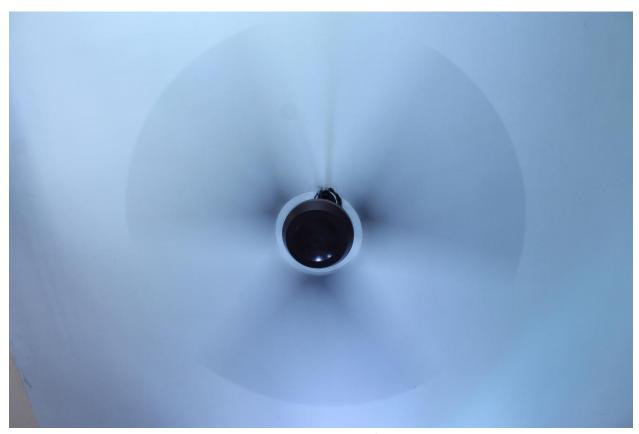
A Moving object: a rotating ceiling fan

Fixed parameters

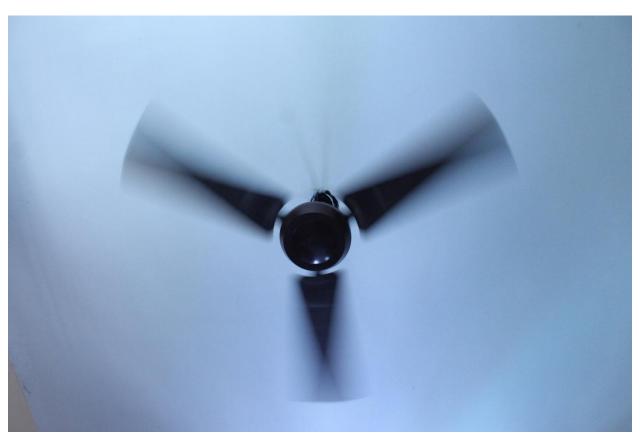
- Camera position (with Canon EOS Rebel T3)
- Focal length
- ISO
- Aperture (f/5.6)
- Light source (daylight)
- Scene setting

Parameter Varied:

Shutter Speed (from 1/25 to 1/500)



With Shutter Speed 1/25



With Shutter Speed 1/100

As observed, the motional blurring decreases as the shutter speed is increased from 1/25 to 1/100, as we can see the blades can be seen more clearly.



With Shutter Speed 1/200

As can be seen, since the increase in shutter speed allows lesser and lesser amounts of light from the moving object to sensor, the images get darker and darker, with all the other parameters fixed.

Hence, consolidating, epsilon increase in shutter speed results in

- 1. Decrease in motional blurring.
- 2. Reduction in overall brightness of the image.



With Shutter Speed 1/500