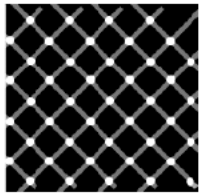


# What do we see?

## -Exploring visual functions-

We rarely think that our vision malfunctions and that only visual illusions trick our vision. However, illusory perception can be found in everyday life if we see things carefully. Such perception is sometimes related to the frontiers of visual science.

Mysteries of vision: not only in the visual illusion books but in the everyday life



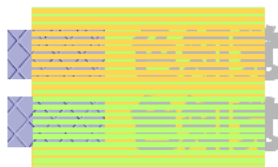
Illusory dark dots are flashing in the white circles



The same pictures look differently



The pairs of the checkers look very different even they have approximately the same luminance.



Gray looks colored when they are surrounded by colors

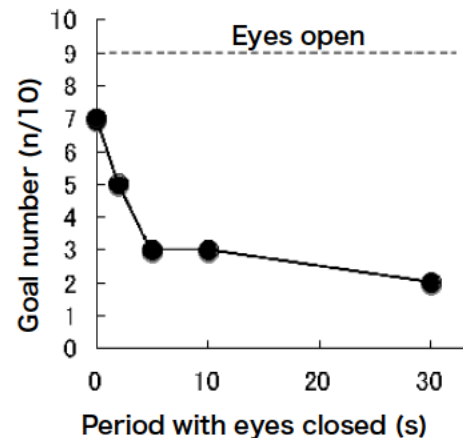


The disks appeared to direct different directions while they do not.

Challenge your own project to explore a vision mystery

### Ex1. Shooting with eyes closed

Shot a ball at the basket after variable period of eyes closing. The performance declined gradually until 5s while it was about the same until 30s.



Other examples: Can we play the piano while reading a book? Can we play the guitar with watching fingers through a mirror? What is the lowest light condition where we can play tennis?

### Ex2. Tennis ball color

Receive balls with different colors and count late swings for each colored ball. The least number of late swings was found with the yellow ball. This is likely due to the high contrast against the dark green court.

