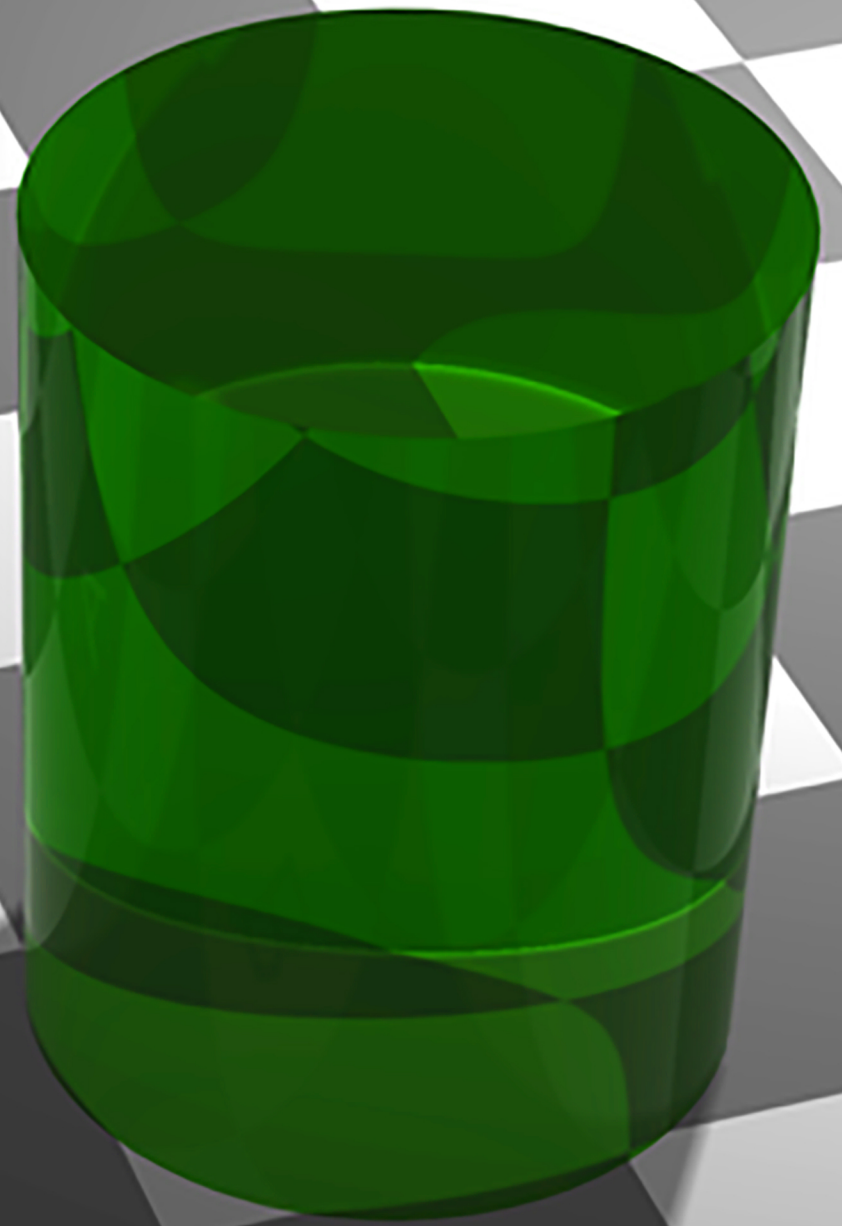# LIGHTNESS CONSTANCY

A

B

Adelson's Checker-Shadow Illusion

Luminance (A,B) = #585858

We perceive the reflectance of a surface as invariant, even when the intensity of incident light is changing at a point or is variable across the surface.

Lightness constancy allows us to distinguish between brightly lit dark surfaces and dimly lit white surfaces, which helps us to detect edges and forms.

Scene 2

3

2

1

0

-1

-2

-3

Scene 1

Percieved shade is constant

Brightness

Luminance