

Dingzeyuuli

 COLUMBIA COMPUTER GRAPHICS GROUP 

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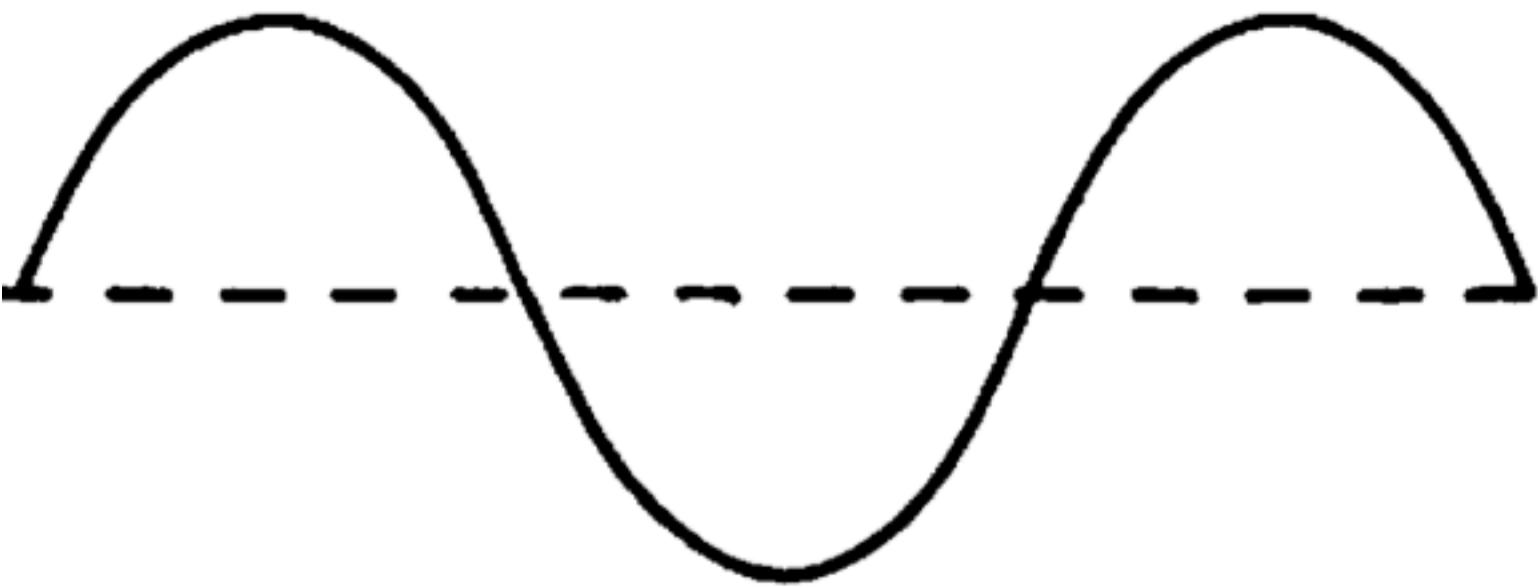
Invisibility: Contrast Threshold

2

1

[Bijetal.,VisionResearch1989]

[Campbell and Robson, Journal of Physiology 1968]



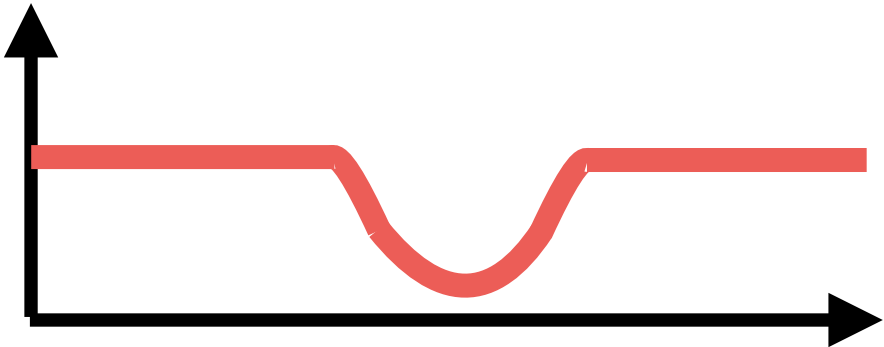
contrast

$$= \frac{L_{max} - L_{min}}{\bar{L}}$$

intensity pattern

0.1% - 10%

Contrast threshold is the minimal contrast required to see the target reliably.



Invisibility: Contrast Threshold

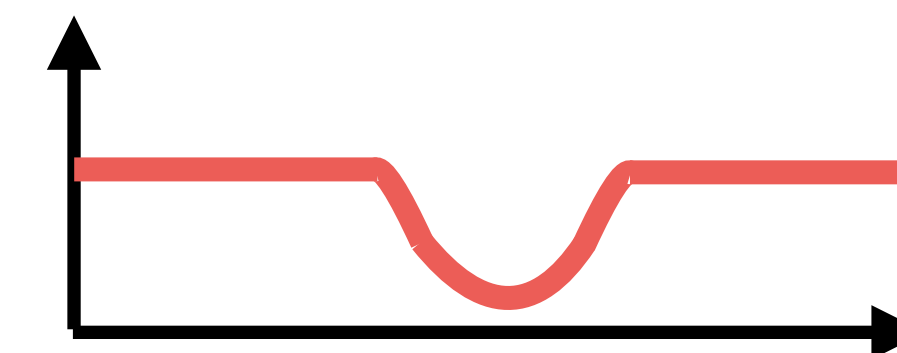
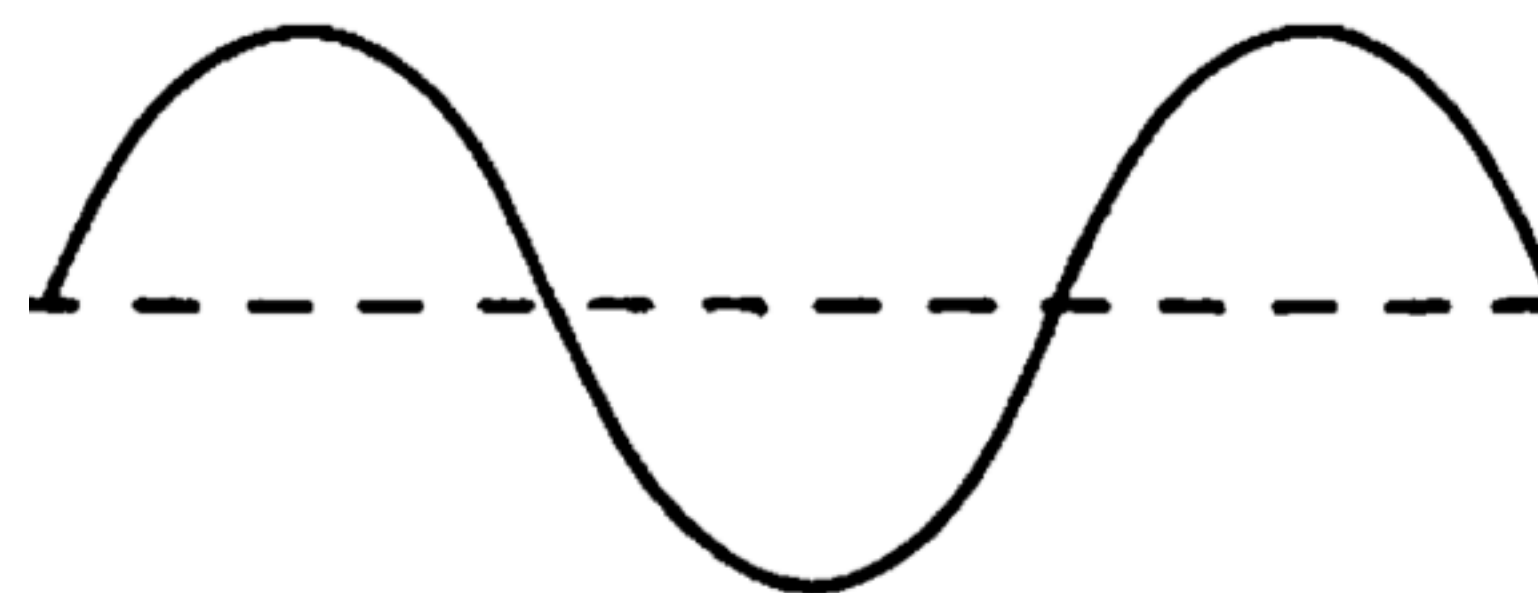
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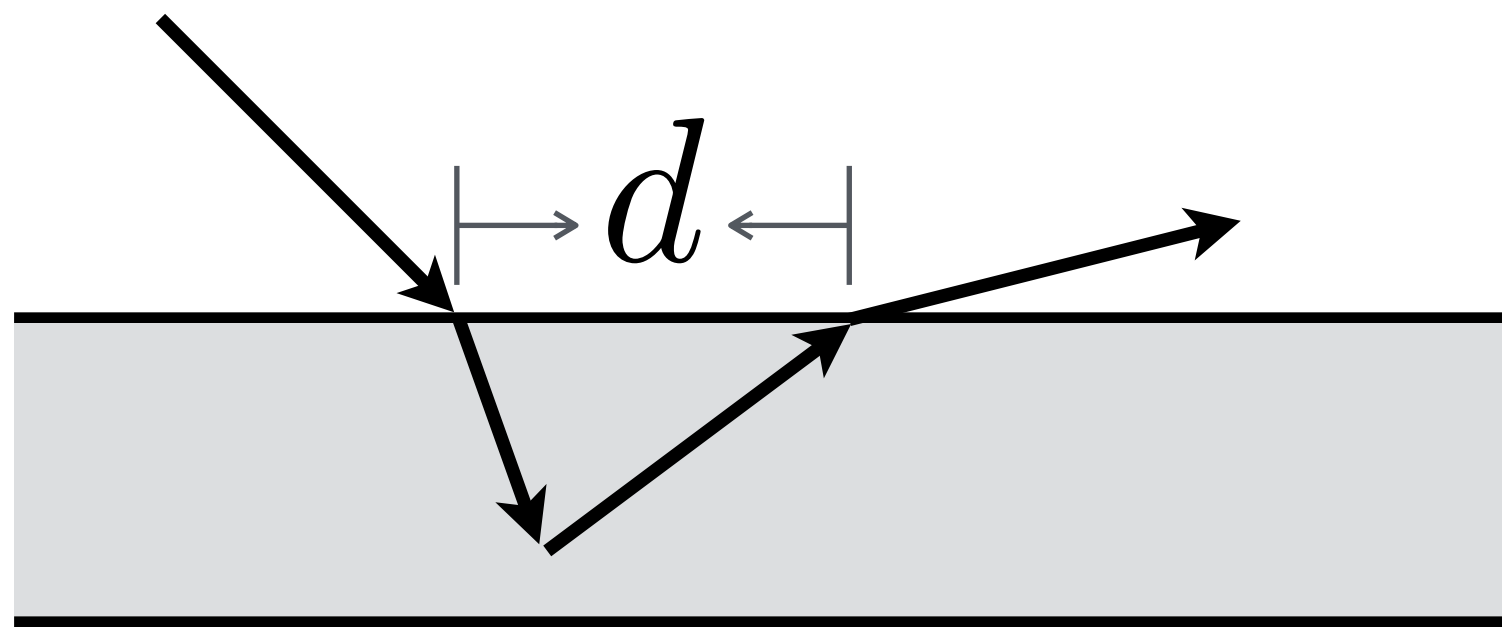


[Campbell and Robson, Journal of Physiology 1968]

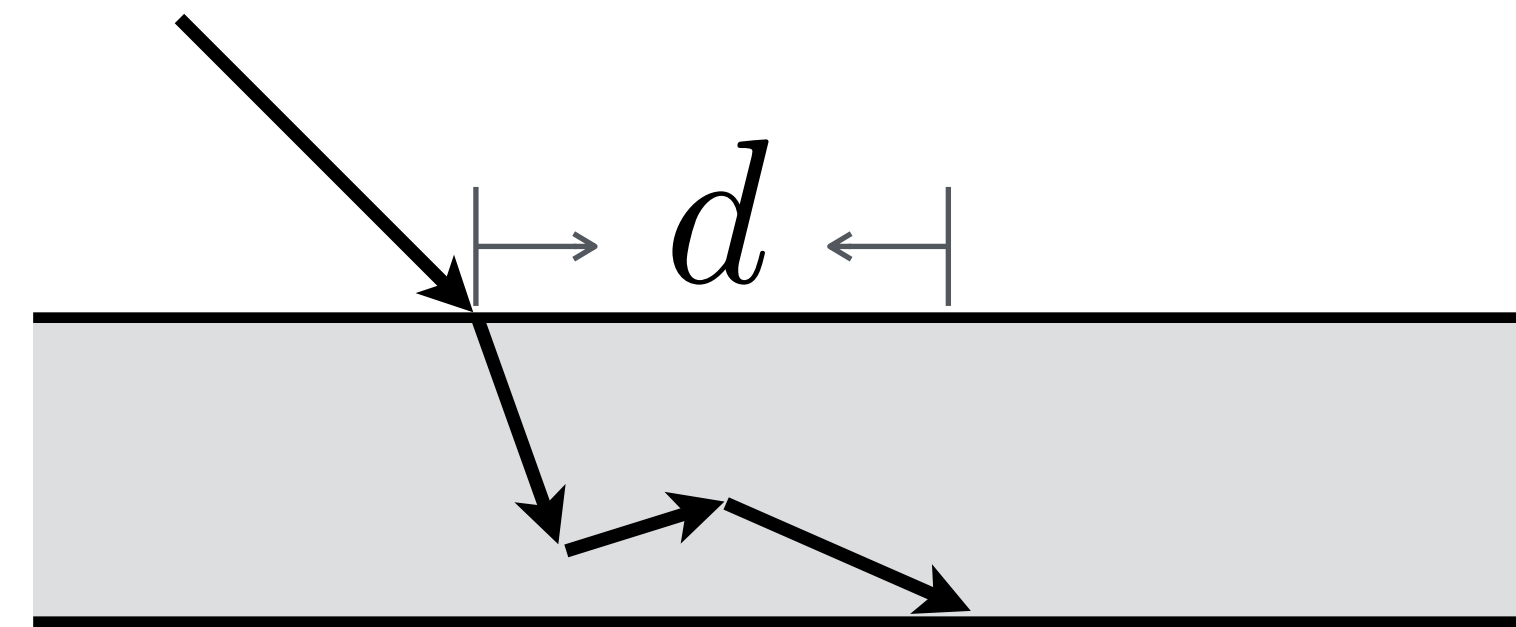
[Bijl et al., Vision Research 1989]

Layered Scattering Model

Reflection profile $R(d)$



Transmission profile $T(d)$



[Donner and Jensen, SIGGRAPH 2005]