CPSC 314 Computer Graphics

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Lecture 17: Shading 2 and PBR 1
(Textbook Chapter 14)

NOTICE:

Recordings of the lecture are provided to students enrolled in the course for self-study only. Any other use, including reproduction and sharing of links to materials, is strictly prohibited.

Preliminaries

- Today
 - Midterm analysis
 - Assignment 3 discussion
 - Note: typo in Part 1(b). "Section 1.3" -> "Section 14.3"
 - Non-photorealisitic rendering (NPR)
 - Basic Toon Shading
 - Physically Based Rendering (PBR)
 - Motivation
 - Blinn-Phong and the "halfway vector"
- Next class: Physically Based Rendering continued, File Formats

Midterm analysis

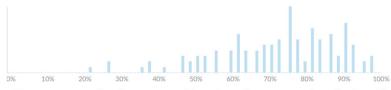
Average Score

72%

High Score
98%

Standard Deviation Average Time7.4 46:55

Median = 76%, 45 people got A

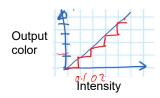


- One question regraded manually due to error in default setting
 - "Which matrix represents a 90 degree rotation in 2 dimensions?" Answer:
 \$\int 0 \ -1 \ 0 \

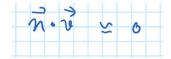
 $0: \begin{pmatrix} 0 & -1 & 0 \\ 1 & 0 & 0 \\ 0 & 0 & 1 \end{pmatrix}$

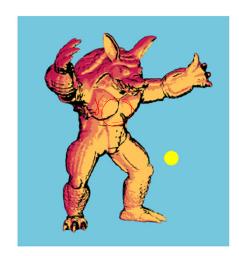
Basic Toon Shading

Small palette of colors



Draw silhouette edges





Physically Based Rendering (PBR)

