



Minnesota eLearning Summit

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2016

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Writing with Light: Building a Low-Cost Lightboard at Carleton College

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WRITING WITH LIGHT

BUILDING A
LOW-COST
LIGHTBOARD
AT CARLETON

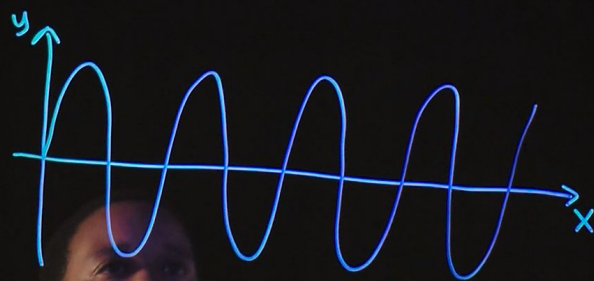
ERIC B. MISTRY
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What is a
LIGHTBOARD?

THIS IS A LIGHTBOARD



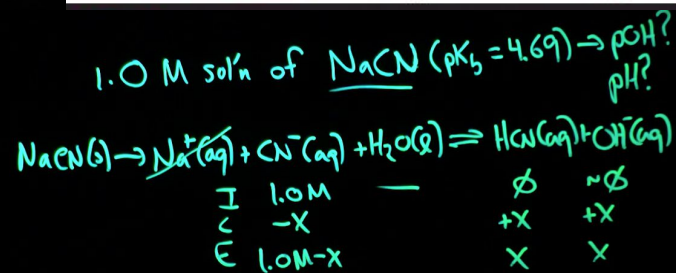
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6̇4̇ 3̇2̇ | 7- | 5̇5̇ 4̇2̇ | 3̇



$$pK_b = -\log K_b$$

$$K_b = 2.0 \times 10^{-5} M$$

$$\frac{x^2}{1.0 M} = 2.0 \times 10^{-5} M \quad x \ll 1.0 M$$



念

今

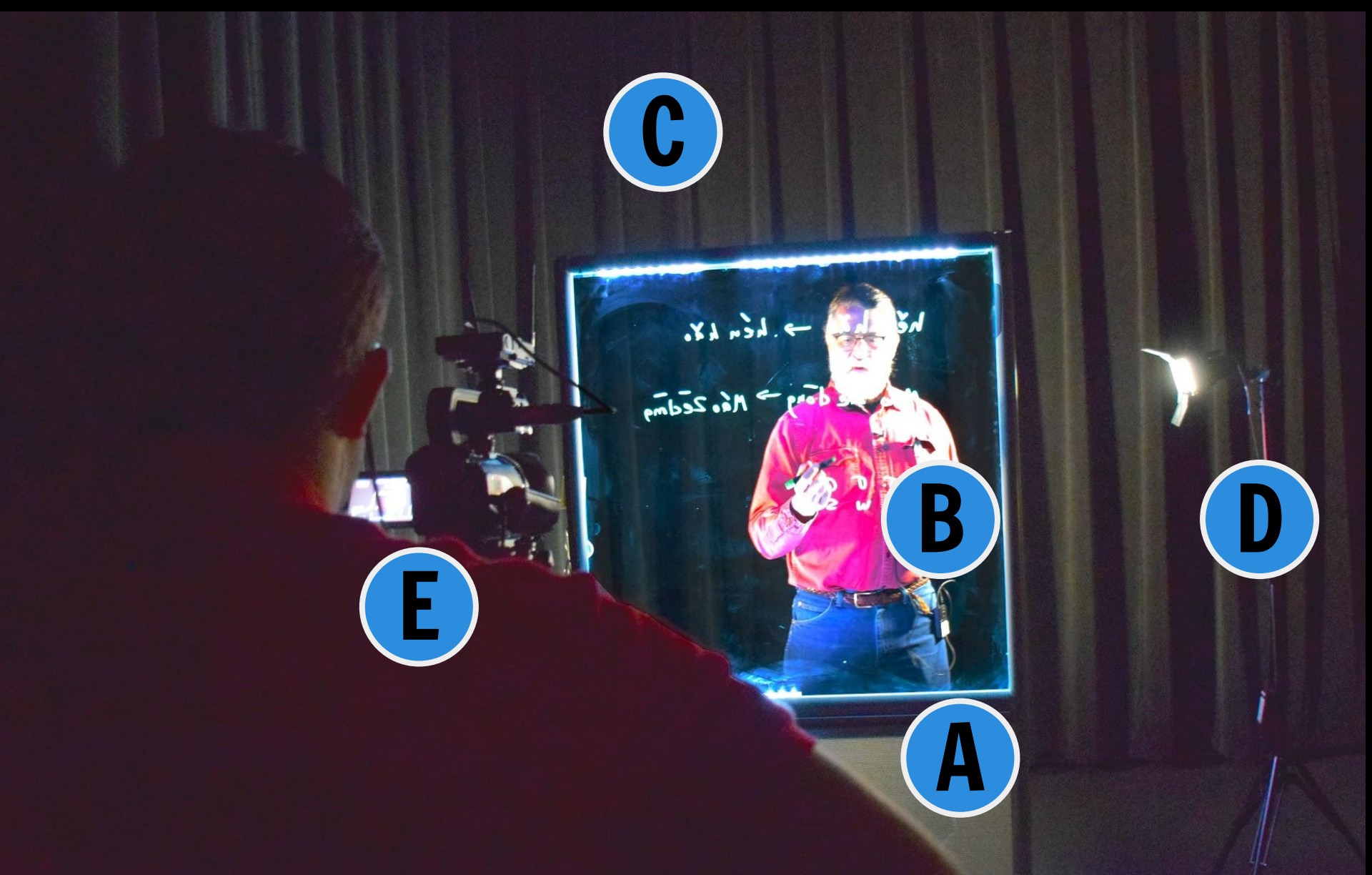
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WHY USE ONE?

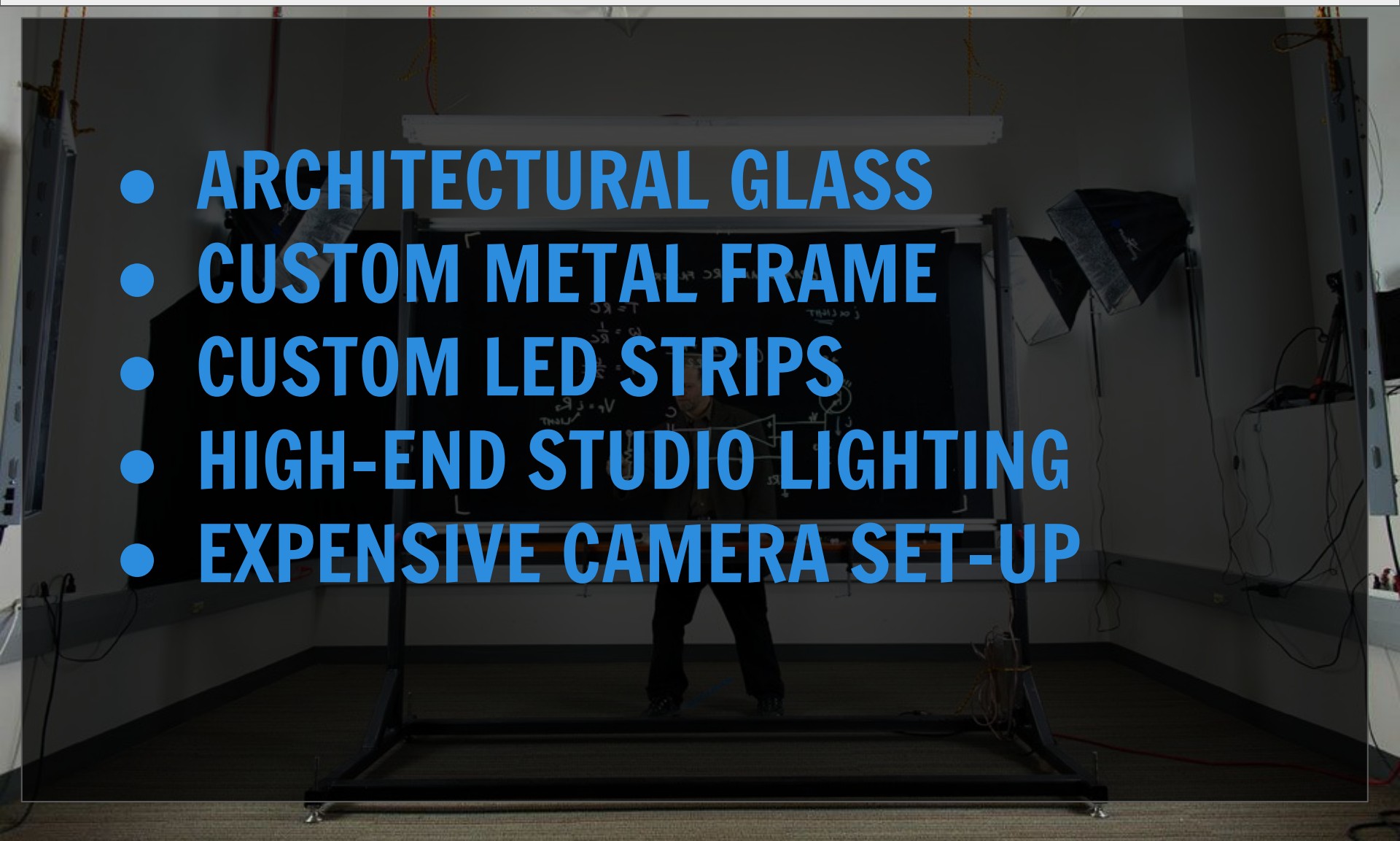
- ❑ Flipping the Classroom
- ❑ Replicability
- ❑ Comfort
- ❑ The “Wow Factor”
- ❑ Content+Personality



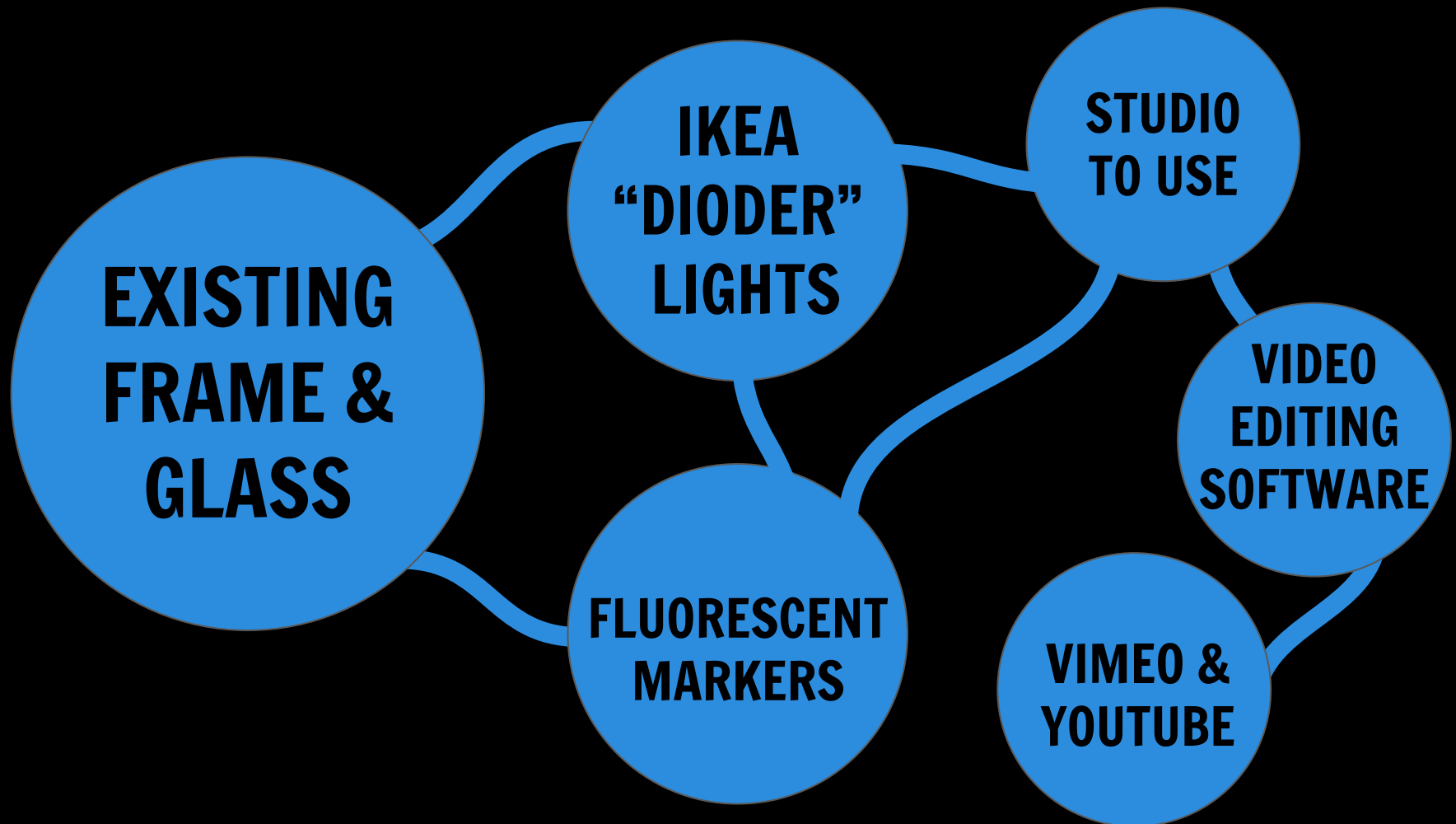
HOW IT WORKS

INSPIRATION FOR BUILDING

- ARCHITECTURAL GLASS
- CUSTOM METAL FRAME
- CUSTOM LED STRIPS
- HIGH-END STUDIO LIGHTING
- EXPENSIVE CAMERA SET-UP



HOW WE BUILT OURS



RECOMMENDATIONS

- Nice, Stable Whiteboard Frame
- Ikea Dioder Lights
- Quality Plexiglass (~3/8" or thicker)
- Fluorescent Markers
- Tripod & Any Good Video Camera
- Basic Video Editing Software
- DIY Softbox Lighting
- Black Backdrop
- Vimeo or YouTube

DEMO

THANK YOU!

QUESTIONS?

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Carleton



BONUS 1: A Look at Editing



BONUS 2: Unaided Studio

An independent studio will allow instructors to create content quickly and on their own schedule. It will also reduce the necessary staff for creating these videos.

Needs:

- **Small, Unoccupied room**
 - **Lighting, cropping, etc pre-set**
- **Mirror Add-on**
- **External Webcam**
- **Quicktime or other screen recorder**

THANK YOU!

QUESTIONS?

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Carleton



**ACADEMIC
TECHNOLOGY**