Making Lecture Videos with the Light Board

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Engaging Students Through Technology
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Moving Instruction Outside Class Time

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**The Challenge:** It’s difficult to produce high-quality videos that are both conversational and visual, whereas these are easy to achieve in a lecture at a board.
Dr. Benjamin Wiggins - Director of Digital Learning Initiatives and Online Pedagogies

Tamer Hassan - Videographer and Studio Operations Manager
Light Board Studio
Light Board Demo

Example:
\[ f(x) = \begin{cases} 
  x & x \geq 0 \\
  -x & x < 0 
\end{cases} \]
Interval: \([-1, 1]\).

Mean Value Theorem
\[ f(b) - f(a) = f'(c) (b-a) \]
- Continuously on \([a, b]\).
- Differentiable on \((a, b)\).
Some point \(c \in (a, b)\).

Example:
\[ f(x) = x^2 + x \]
Interval: \([0, 1]\).
\[ f(0) = 0 \]
\[ f(1) = 2 \]
\[ \frac{f(1) - f(0)}{1-0} = 2 \]
\[ f'(x) = 2x + 1 \]
\[ f'(c) = 2 \]
\[ 2c + 1 = 2 \]
\[ c = \frac{1}{2} \]

https://vimeopro.com/user12030246/2015c049-phil-gressman-lightboard/video/142536444