



# Student Response Systems

... trying clickers in my courses

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Have you ever used a clicker in a course or workshop before? 



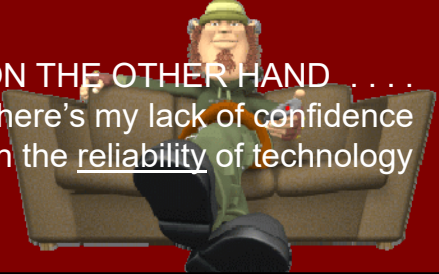
A. Yes  
B. No

## Why clickers?

- Personal reasons
  - Love of toys
  - If a remote makes TV viewing more fun, why not teaching & learning, too?




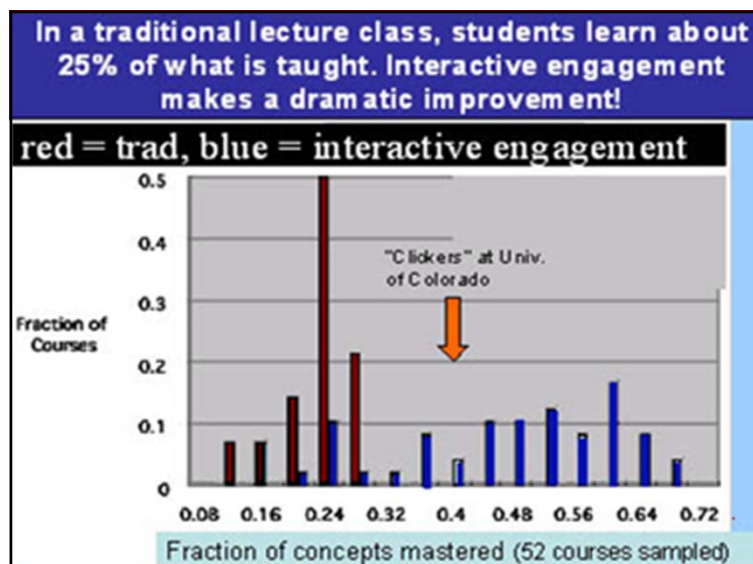
ON THE OTHER HAND . . . .  
there's my lack of confidence in the reliability of technology




## Why clickers?

- Personal reasons
- Improve interactivity during lectures
- Generate discussion
  - Allow anonymous input
- Automate recording of student participation
- Improve learning







## Why i>clicker?



- Developed by college professors
  - Based on techniques investigated at Harvard
- Ease of use
  - Less complicated than others I looked at
  - No installation required (plug in USB and go)
  - You can watch responses on receiver AS THEY CLICK
  - Use clicker to advance slides & control clicker receiver
  - Open source software
  - No pre-programming of PowerPoint needed
  - Data easily downloaded to Excel or an LMS


## Why i>clicker?

- Cost
  - Free receiver, software, memory stick, etc.
    - Minimum adoption required
    - Inexpensive to purchase
  - \$34± cost to student (new remote)
    - Used units also available
    - My students use it for TWO semesters
    - AAA batteries last all semester (usually)
    - Can sell back to bookstore or another student
    - Can use it for other courses (theoretically)
    - No registration fees or other recurring expenses

## Why i>clicker?

- Cost
  - College library or department
    - Loan out clickers to students
    - Ask student to donate used clickers
    - Possible grants for purchase



## Why i>clicker?

- Company philosophy
  - Founded and run by professors
  - Learning is the focus
    - Better design
    - Classroom-friendly
  - Publisher-independent
    - can be used with any book (or no book)
  - Free upgrades of software
  - I later found out:
    - Great support
    - Responsive program designers

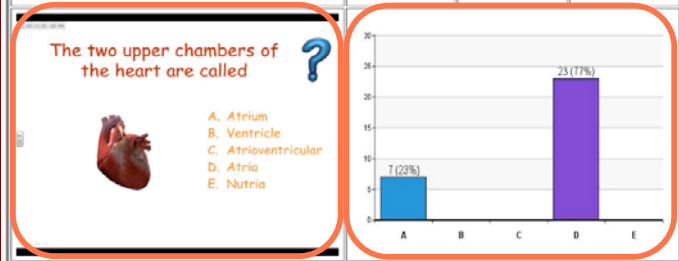


### Question 1

Question Type: Multiple Choice  
 Significant Characters: 16  
 Time Started: 8:33:46 AM  
 Correct Answer(s): ?

Maximum Score: 0.00  
 Number of Responses: 30  
 Number Missing: 39  
 Class Average: 0.00

Answer	#	%	Performance Points
A	7	23%	0
B	0	0%	0
C	0	0%	0
D	23	77%	0
E	0	0%	0



## Anonymous student survey

- What is the experience of students?
  - LMS survey
  - End of course

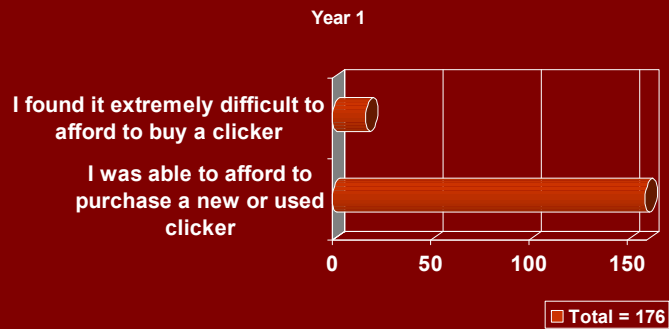


Of 176 students, how many negatively reacted to clickers? ?

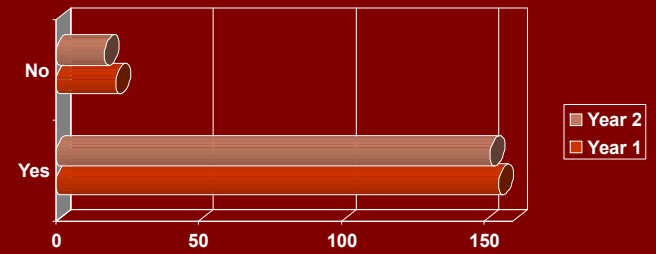


- A. 0-20
- B. 21-30
- C. 31-40
- D. 41-100
- E. 101-176

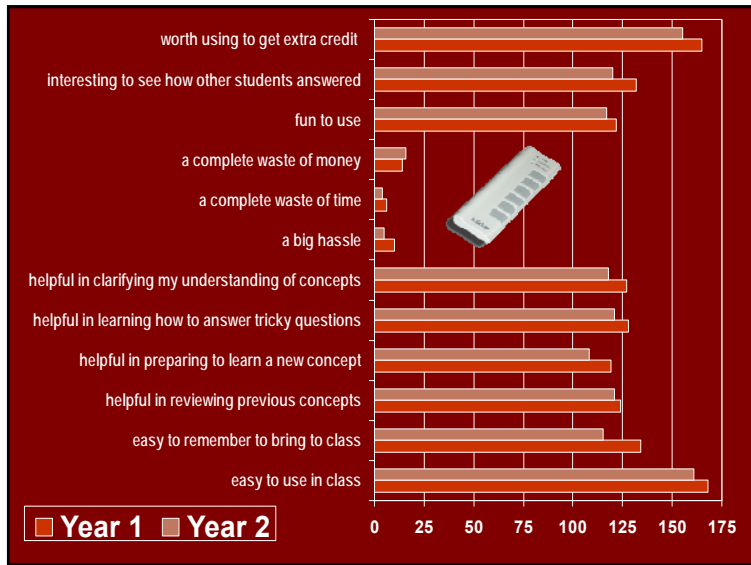
### When I first bought my clicker for this course



### The student response system (clickers) helped me feel more involved in the lecture than in a standard lecture.




### I found the student response system (clickers) to be . . . (check all that apply)



## Student Comments

- I also like the iclicker, you can be involved in lecture and not feel embarrassed if answered wrong.
- . . . our entire test class at [other college] had been #@!\*#\$ by bugs in their clicker system. However, I have found that not only is it more affordable, easier to use and sign up for, but it actually works. I think that it is a good idea to use it in class.
- About the I-Clickers, I think they are very fun and a great way to give student involvement
- He kept me alert and involved by using the clicker in lecture.

Students get bored with clickers by midterms. 



A. True  
B. False

## Quick Tips to Get Started

- **Explain** to students why you are using clickers
- Use them **regularly**
  - **Start slow** until you get used to it (and build up more questions)
  - Only a **few** per session
  - Make it **important**
    - Then students will look forward to participating
- Give them **credit**
  - participation &/or grade
- **Practice, practice, practice**
- Allow students to **discuss** the question during polling
- Learn from how **others** use clickers

**Don't always follow the rules!**

**K-Clicker**  
Remote control for your students

Wake up

Prepare for class

Read syllabus

Be motivated

Fast forward

Rewind

**MUTE**

NOT affiliated with Kmart



The A&P Professor

My next project . . .

