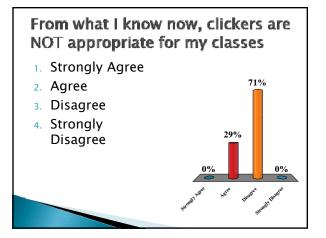
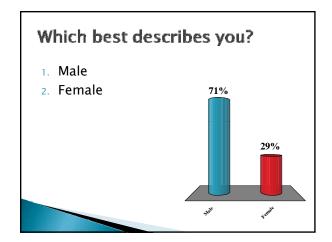


Let's play with our clickers

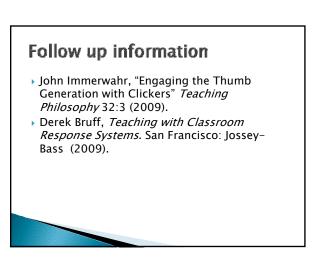
- First, a prayer to the local deities: deliver us from tech-demo Hell
- These are radio devices, so you don't need to point them
- > Your vote is registered when it flashes green
- You can change your vote be pressing a different number before the voting closes.





How does the system work?

- Best option: school standardizes on a clicker system
- We are using the TurningPoint system
- Students buy clicker in bookstore (or on Amazon) – under \$50 but can be used in other classes
- Faculty member has radio device
- Clicker software creates modified version of PowerPoint.



Alternatives

- Flash Cards (available from Monash University)
- Cell phones, web based text message system
- polleverywhere.com
 Free accounts, up to 30 people

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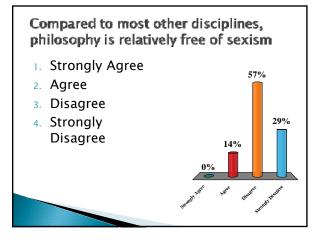
Why should anyone use clickers? Some general answers for any subject.

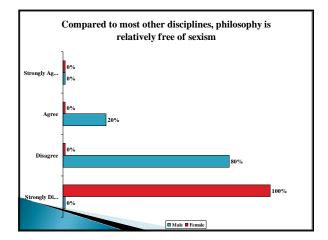
- 1. Reset attention
- 2. Get honest answers (probably for the first time).

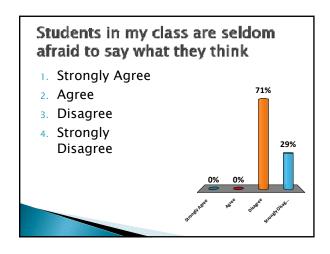
Length of attention span for average freshman during lecture 50 minutes 30 minutes 20 minutes 10 minutes Less than 2 minutes

How to reset attention

- General problem: students lapse into lizard brain mode
- St. Augustine (400 C.E.): when attention in class flags, make a remark "spiced with seemly good humor."
- Classroom Assessment Techniques (CATS)
- Clickers as attention resetters.







Do we ever get honest answers in class?

- Faculty story
- Before expressing an opinion many students:
 Wonder what the teacher will think of them
 - Worry about what other students will think of them
 Look around to see which students are raising their
- hands Clickers:
- Anonymous, no peer pressure

Uses of clickers in philosophy classes

- 1. Having a stake in an issue
- 2. Discussion starter
- 3. Pre-and post questions
- 4. Peer instruction.

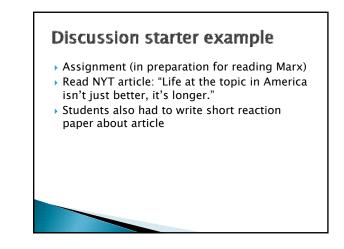
Helping students have a stake in an issue

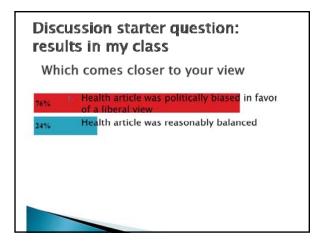
- Paradox: the texts we assign were developed as answers to pressing questions
- Those questions are not necessarily pressing to our students
- Result: we give them the answer, help them find the question.
- Clickers: can get students to invest in the question.

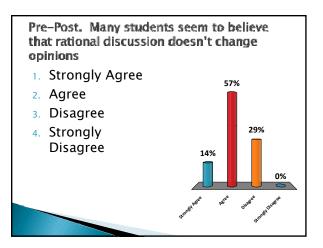
Taking a stake on issues in *Euthyphro*

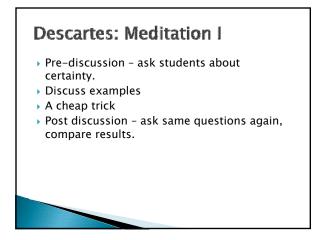
- Before discussing Euthyphro, I ask:
 Morality is closely connected to religion
- Agree-disagree
- People who question religion undermine society
 Agree disagree
- Students take a stake in the issue one way or the other:
- \circ Focus attention in issue
- ${}^{\circ}$ Creates investment in issue

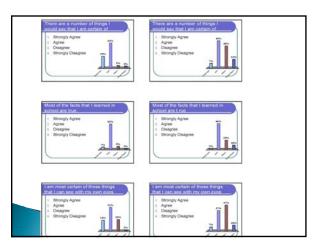
14%	Need more time to formulate their thoughts
57%	2. Afraid of saying wrong or
29%	unpopular answer Don't really care about issue









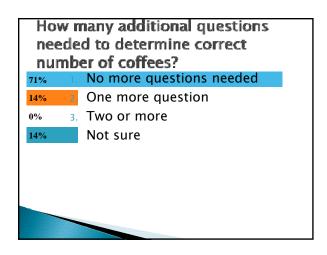


Peer Instruction Demo Pay attention, don't call out answer, respond within time limit even if not sure Table server in coffee shop is logic student. At table are four logicians seated for breakfast. Table server says: "I's everyone having coffee? First logician says: "I'm not sure" Second logician says: "I'm not sure" Third logician says: "No"

How many additional questions needed to determine correct number of coffees? 43% 1. No more questions needed 43% 2. One more question 0% 3. Two or more 14% Not sure

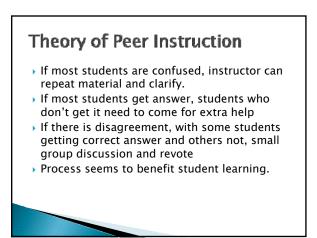
Discuss with people around you

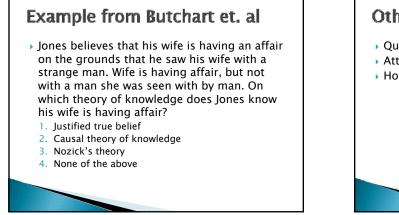
- First three logicians say, "Not sure."
- Fourth logician says, "No."
- How many more questions needed?

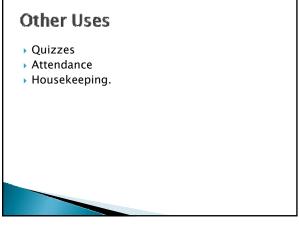


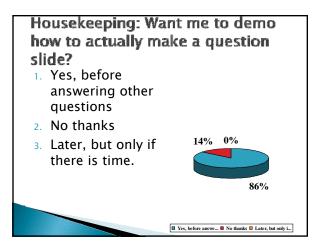
Peer Instruction

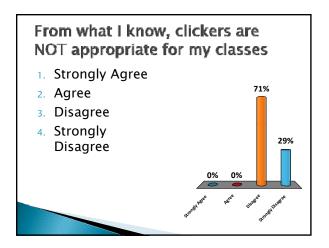
- Used frequently in the sciences
- Excellent article and website
 - Butchart et. al. "Using Peer Instruction to Teach Philosophy, Logic, and Critical Thinking" *Teaching Philosophy* 32:1 (2009) or
 - <u>www.arts.monash.edu.au</u> search for "peer instruction"
 - Includes data showing effectiveness
 - $^{\circ}$ URL for professional looking flashcards.

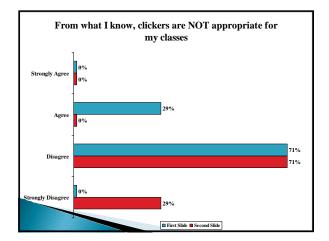


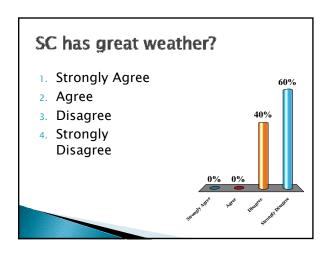












Teach 101	Saturday, April 11, 2001 @Peaker Heady Welcome to Tead-Hilvsphytoti (T0101) This site presents strategies and resources for faculty reembers and graduate assistants: who
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for Veteran Faculty for Teacher Training Programs what's New on Td+1017 Subscribe to RSS Updates THESE Villanzva University	 The random highlights page gives a flavor for some of the taplcs on T0101. The crash course gives you the eight most essential pages, in the order taplsy unlight need them. Suggested use. Recommended uses for graduate assistants, new faculty, experienced faculty, and for those who are enganizing teacher training programs.