

The Utility of the Tablet PC:
Lessons from a Faculty Study
*No Educator Left Behind Conference, Indianapolis
June 20, 2008*

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Presentation Outline

1. Overview of the Tablet PC
2. Applications for Teachers
 - Demonstration/Examples
 - Grading and Assessment
3. Applications for Students
 - Note Taking
 - Collaborative Learning
4. Tablet PC Study
 - Findings

Overview of the Tablet PC

What is a Tablet P.C.?

- Fully functional mobile computer
 - Lightweight
 - Wireless
 - Portrait and landscape orientations
- Runs Windows Tablet PC Edition
 - Digitizer Screen and Stylus for input
 - Also functions using a keyboard and mouse

Two Distinct Types

- Slate tablets look like a notebook/laptop screen
 - attachable keyboard and mouse
- “Convertible” models look like a notebook/laptop computer with a screen that rotates



Useful for Students and Faculty

- For Students:
 - Can make hand written notes
 - Can draw on, and mark up digital documents
- For Faculty:
 - Combined overhead and computer capability
 - Make PowerPoint presentations interactive
 - Mark up documents/presentations and save files for later access by students

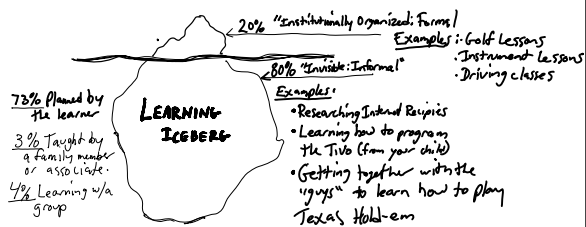
Online Learning

- In the fall of 2005, 3.18 million students took online courses.
- A 35% increase over the previous year.
 - Sloan Consortium survey, 2005
- This does not factor in the number of "hybrid" classes and the number of face-to-face classes that have an online element (like Blackboard).

Applications for Instructors

Demonstrations/Examples

Tough's Iceberg of Informal Adult Learning*



Examples & Class Interaction

- Marked up documents/items may be saved electronically and opened by students with or without a tablet PC, provided they have Microsoft Office.
- Documents/items may be distributed through:
 - Email (as an attachment)
 - Blackboard
 - On a class website

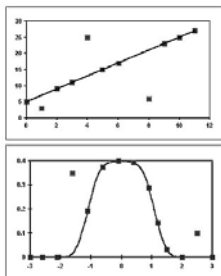
Grading and Assessment

Messemer (2003) realized that this ban would affect recidivism immensely and he was interested in determining how this ban would impact the offering of college programs to inmates. *Clarify - were these state directors of prison education?*

Messemer received 45 responses back and found that 25 states offered in-house college programs to inmates. The college programs used the following six sources of funding: State and Federal Government, corporations/organizations, non-profit foundations, colleges/universities, prison budgets, and some inmate support. *Public and private?*

The National Institute of Justice (2004) found that ~~after one year~~ release, up to 60% of former inmates are not employed. This is due in part to the fact that people with criminal records face many barriers to getting a job, including substance abuse problems, spotty work histories, poor educational backgrounds, physical and mental health problems, and in general, community bias against them. There is no doubt any of these barriers can *Add more specific details from this study.*

Grading and Assessment



Short Answer: (5 points)

What are the points (in red) called and what impact do they have on the rest of the data?

The red points on the graphs are called "data points". They may cause the data to become skewed and throw off the ...

outliers -2

Grading and Assessment

3). Find the Mean, Median, and Mode for the following: -5
31, 7, 2, 12, 14, 10, 2, 7, 7, 14, 19, 31

Mean = 13
Median = 12
Mode = 7

Median = 13 (between 12 + 14)
 $12 + 14 = 26 \rightarrow \frac{26}{2} = 13$

2, 2, 7, 7, 7, 12, 14, 14, 19, 19, 31, 31

Grading and Assessment

- Some advantages of the Tablet PC:
 - May increase speed of grading because it simulates "paper and pencil" grading—train of thought is not broken
 - Eliminates the option for students to "accept changes" when Track Changes is used for editorial comments
 - Beneficial for reviewing drafts of reports or dissertations

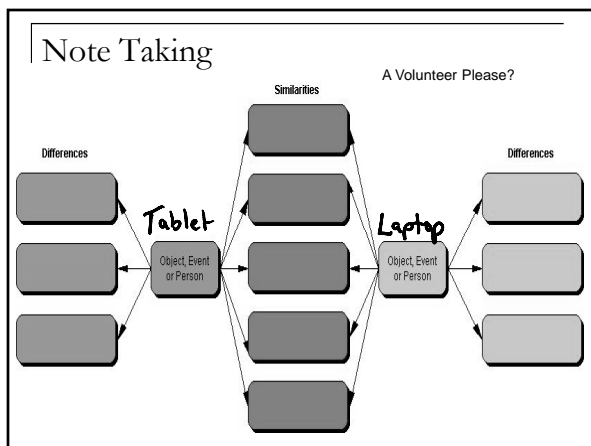
Tablet PC for Students

Students

- Students are not required to own a Tablet to participate in a class led by an instructor who uses one.
- Some advantages for a student who uses a Tablet are:
 - The ability to take and save notes electronically
 - To collaborate with peers

Note Taking

- Microsoft OneNote
 - Note taking/organizational software
 - Part of the Office for Tablet PC package
 - Blends handwritten note taking with digital file saving and sharing.
 - [OneNote link](#)



Student Collaboration

Shouldn't we define "self-determination?"

The overall goal of the project is to design, implement, and evaluate a postsecondary education ~~model~~ *learning model* that provides information, resources, support, and *Too many! how about 100?* student directed activities to 1100 students with disabilities over the course of the four-year project. The project primarily focused on the following activities:

- Incorporating the results of the pilot with Big College U students with disabilities
- Developing draft modules to use with high school students *← how many modules?*
- Reviewing the drafts with school divisions across the state
- Developing and writing scripts, activities and information for the modules *← I would like to take the lead on this ☺.*
- Meeting with school personnel to begin identifying high schools to field test the modules.

Tablet PC Study at Regent University

Tablet PC Study

- Funding Sources:
 - IT/SOE & University Faculty Grant (3 machines)
- Used in 9 classes: 7 online and 2 hybrid
 - 4 doctoral classes (700 & 800 levels)
 - 3 graduate class (500 level)
 - 2 cross listed undergrad/grad classes (400 & 500)
- Primary uses:
 - Providing feedback on written work
 - Developing illustrations of class concepts and tutorials for university programs

Tablet PC Study

- End-of-Course Questionnaire
 - Likert scale and open-ended
 - Optional participation
 - Developed using the Blackboard survey feature
 - Anonymous
 - Currently offered through Survey Monkey

Interesting Findings from Spring 08

- All Students (n=29)
13 Doctoral, 12 Graduate, 4 Undergraduate
 - Feeling more connected to the professor 41%
 - Feedback is more personalized 69%
 - Feedback is more specific 66%
 - Work was reviewed in detail by the professor 62%
 - The Tablet has not enhanced the course 14%

Interesting Findings...

- Graduate Students (n=12)
 - Feeling more connected to the professor 42%
 - Feedback is more personalized 67%
 - Feedback is more specific 50%
 - Work was reviewed in detail by the professor 67%
 - The Tablet has not enhanced the course 25%

Interesting Findings...

- Doctoral Students (n=13)
 - Feeling more connected to the professor 39%
 - Feedback is more personalized 62%
 - Feedback is more specific 69%
 - Work was reviewed in detail by the professor 46%
 - The Tablet has not enhanced the course 8%

Interesting Findings...

- Undergraduate Students *hybrid class*(n=4)
 - Feeling more connected to the professor 50%
 - Feedback is more personalized 100%
 - Feedback is more specific 100%
 - Work was reviewed in detail by the professor 100%
 - The Tablet has not enhanced the course 0%

Tablet PC Study

- Some Open Ended Responses:
 - "I definitely found it useful and like having my papers graded with this tool"
 - "The meaning of comments are more clear"
 - "I think the personal touch was a nice addition"
 - "The mark up feature demonstrates that the professor has reviewed my work in detail"
 - "The handwriting was difficult to read at first but as I became accustomed to the handwriting it was easier to distinguish the words"

Tablet PC Study

■ Lessons Learned

1. pen-man-ship [**pen**-muh n-ship]—noun
 1. the art of handwriting; the use of the pen in writing.
 2. a person's style or manner of handwriting: clear penmanship; poor penmanship.
2. Be sure students have "track changes" feature turned on
3. Tell students that the you are using a Tablet PC ahead of time
4. Mix the Tablet with other techniques/tools

Question...

How do you see this technology being used in your classroom/program?
