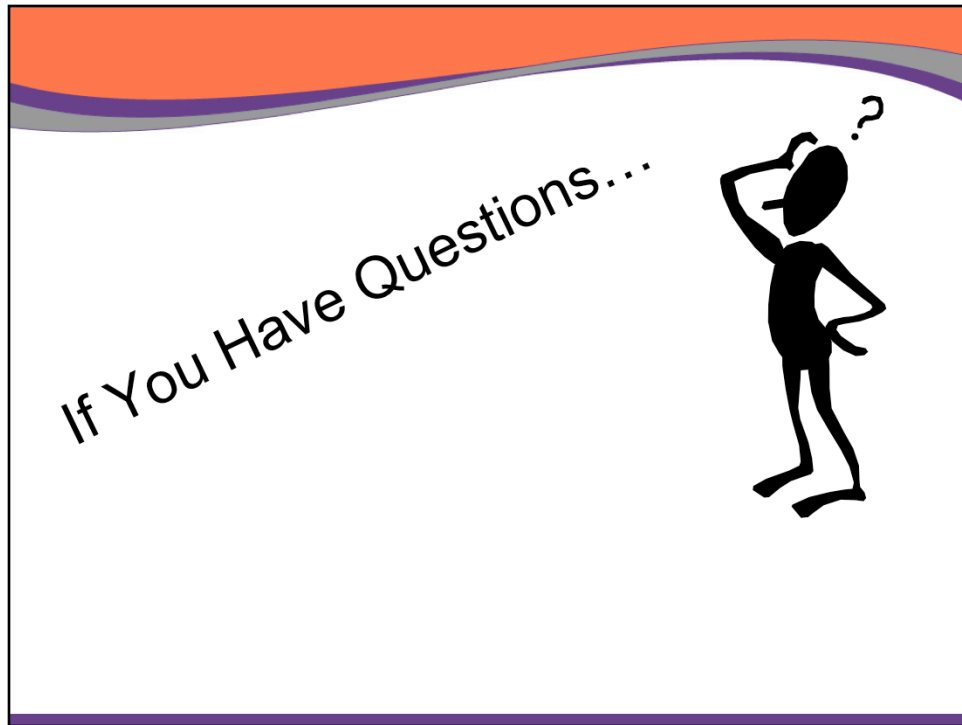


Hi...welcome to Tech Talks! My name is Jan Lay and I'm a trainer with CCIT's, Learning Technologies group.

This is the 3rd episode in our weekly, Fall 2013 TechTalk webinar series.

During today's show I will discuss the types of statistical data that can be found in Blackboard because, despite its calm exterior, Blackboard is almost always collecting or generating data that you can use, if you know where to look.



Before I go any further, I would like to invite you to type any questions or comments you might have during the presentation into the Questions and Discussion Window. We will be monitoring this area throughout the presentation, and after this session is through, I will try to answer as many of your questions as I can.

As always, if you run into any problems while listening to this presentation, please also type those into the Questions and Discussion window and one of my co-workers will try to assist you.

And now...the presentation...

Manual vs. Automatic Data

- Automatically generated data
- Manually triggered data

There are two types of data that are generated in Blackboard: Automatic, and Manually Triggered

Automatic data comes from something called the Activity Accumulator. It runs in the background of Blackboard and records all of the access “hits” to each part of the Blackboard system. Data generated in this way can be found in places like the Course Reports.

Other data is generated when you ask Blackboard to monitor something specifically. Such as how many times a student has accessed a particular part of your course.

Even more data is generated when you give some sort of assessment.

Do you ever wonder...

- **If anyone is accessing your course Content areas?**
 - Turn on Statistics Tracking!
- **If anyone actually read a specific paper you suggested?**
 - Turn on Review Status!
- **If there were questions on your test that everyone missed?**
 - Run an Item Analysis!
- **What the mean, median and average of your last test was?**
 - Check out Column Statistics!
- **What the “traffic pattern” is for your course?**
 - Run a Course Report!
- **Where the results of that Survey you gave went to?**
 - Check out Attempts Statistics!

If anyone is accessing your course Content areas?

Turn on Statistics Tracking!

If anyone actually read a specific paper you suggested?

Turn on Review Status!

If there were questions on your test that everyone missed?

Run an Item Analysis!

What the mean, median and average of your last test was?

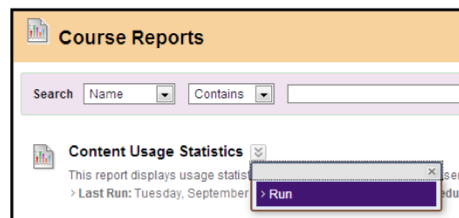
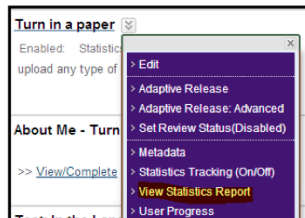
Check out Column Statistics!

What the “traffic pattern” is for your course?

Run a Course Report!

Statistic Tracking

- Must be “turned on” for each item that you want tracked
- Only collects data after tracking is enabled
- Statistics are generated overnight*
- Access “View Statistics Report” from the drop down menu next to the item; then run Course Reports



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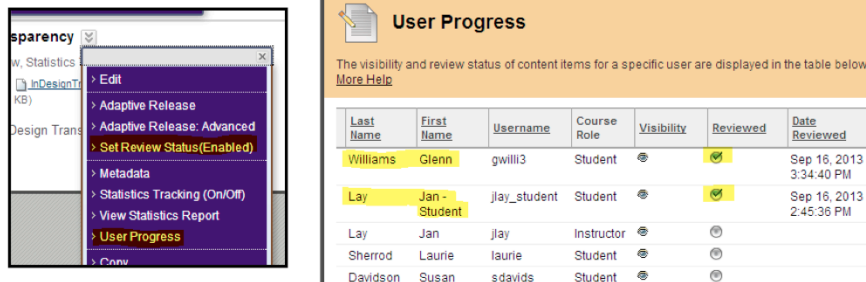
*this means that statistics for the current day are only available the following day.

So, what does Statistics Tracking do for you? It tells you if someone went in and clicked on something.

Can you tell if someone has actually read something? Not absolutely, but you can use “Review Status”

Review Status

In the same place where you enable Statistics Tracking, you can also enable “Set Review Status,” then view User Progress



The screenshot displays the 'User Progress' interface. On the left is a navigation menu with options: Edit, Adaptive Release, Adaptive Release: Advanced, Set Review Status(Enabled), Metadata, Statistics Tracking (On/Off), View Statistics Report, and User Progress. The 'User Progress' option is selected. On the right, the 'User Progress' section shows a table of user progress data. The table has columns: Last Name, First Name, Username, Course Role, Visibility, Reviewed, and Date Reviewed. The table contains five rows of data, with the first two rows highlighted in yellow.

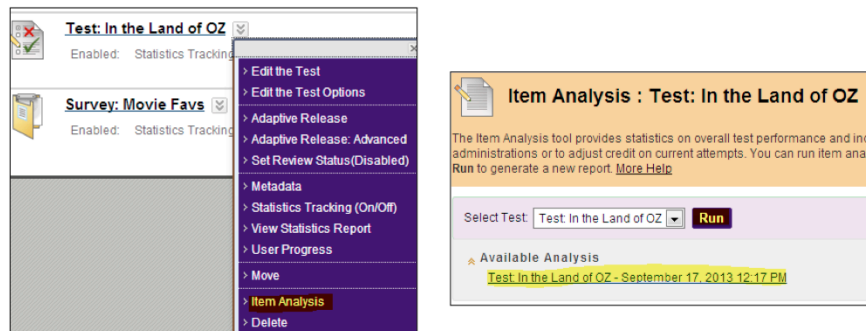
Last Name	First Name	Username	Course Role	Visibility	Reviewed	Date Reviewed
Williams	Glenn	gwilli3	Student	🔍	✅	Sep 16, 2013 3:34:40 PM
Lay	Jan - Student	jlay_student	Student	🔍	✅	Sep 16, 2013 2:45:36 PM
Lay	Jan	jlay	Instructor	🔍	🔍	
Sherrod	Laurie	laurie	Student	🔍	🔍	
Davidson	Susan	sdavids	Student	🔍	🔍	

In the same place where you enable Statistics Tracking, you can also enable “Set Review Status,” then view User Progress

So, does that mean the student actually read the paper...no, but it does mean that he or she AGREES that they did.

Item Analysis

Provides statistics on overall test performance and individual test questions



The Item Analysis tool provides statistics on overall test performance and individual test questions to help you recognize questions that might be poor discriminators of student performance.

- You can use this information to improve questions for future test administrations or to adjust credit on current attempts.

There are a few things to remember about using Item Analysis:

- You can run item analyses on deployed tests, but not on surveys.
- Access previously run item analyses under the **Available Analysis** heading or select a deployed test from the drop-down list and click **Run** to generate a new report.
- Manually graded section statistics don't show up until those parts are graded

Item Analysis Results

Test: In the Land of OZ
Analysis Last Run: September 17, 2013 12:17 PM. Run Item Analysis again to display the latest question data.

Test Summary

50.0	5	0	3	23.34	00 hr 00 min
Possible Points	Possible Questions	In Progress Attempts	Completed Attempts	Average Score	Average Time

Discrimination

2 Good Questions	1 Easy Questions
0 Fair Questions	3 Medium Questions
1 Poor Questions	1 Hard Questions
2 Cannot Calculate	

Difficulty

Filter Questions

Select Question Type: All Question Types | Select Discrimination: All Discrimination | Select Difficulty: All Difficulty

Go | Reset Filter

Question	Question Type	Discrimination	Difficulty	Graded Attempts	Average Score	Std Dev	Std Error
? Dorothy's last name is Gale.	True/False	Cannot Calculate	0.0%	3	0.0	0.0	0.0
? Where do Dorothy and her relatives live?	Multiple Choice	Cannot Calculate	100.0%	3	10.0	0.0	0.0
X What is Dorothy's uncle's name?	Multiple Choice	-0.5	33.34%	3	3.34	5.78	3.34
✓ Dorothy's Aunt's name is Ellen.	True/False	0.5	66.67%	3	6.67	5.78	3.34
✓ Dorothy's dog's name is Toto.	True/False	1.0	33.34%	3	3.34	5.78	3.34

Discrimination - this area shows the number of questions that fall into

- Good (greater than 0.3)
- Fair (between 0.1 and 0.3) and
- Poor (less than 0.1) categories

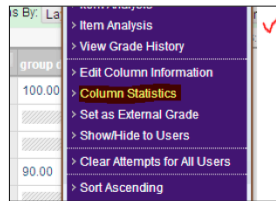
A discrimination value is listed as **Cannot Calculate** when all students receive the same score on a question (Dorothy's last name) or when the question's difficulty score is 100% (Where do Dorothy and her relatives live?).

Questions with discrimination values in the **Good** and **Fair** categories are better at differentiating between students with higher and lower levels of knowledge.

Questions in the Poor category (less than 0.1) are recommended for review. My question about Dorothy's Uncle is a poor question.

Column Statistics

Or, maybe you want a slightly different set of statistics about a graded column:



Column Statistics

Users who are unavailable are not included in column statistics. To include them, select the check box and click Refresh. To view statistics for another column, select the column name and click Go or click the next or previous arrows to navigate sequentially.

Column: -Select- Go Show Statistics For: Available Users only Refresh

Column **Test: In the Land of OZ (Test)** < >

Column Details

Column	Test: In the Land of OZ (Test)
Points Possible	50
Description	

Statistics	Status Distribution	Grade Distribution
Count	5	Greater than 100 0
Minimum Value	20.00	In Progress 0
Maximum Value	30.00	Needs Grading 0
Range	10.00	Exempt 0
Average	23.33	60 - 69 1
Median	20.00	50 - 59 0
Standard Deviation	4.71	40 - 49 2
Variance	22.22	30 - 39 0
		20 - 29 0
		10 - 19 0
		0 - 9 0
		Less than 0 0

A different type of assessment statistics can be found using the Column Statistics Tool.

This is found in the drop down menu of the column in your gradebook that contains the assessment. (Item Analysis can also be found there)

Attempts Statistics

Gradebook Column Attempts Statistics shows data on attempted Assessments

- For graded tests, the data is similar to that of Item Analysis
- For surveys, it is the answers to your survey questions

A different type of assessment statistics can be found using the Column Statistics Tool, this is the Attempts Statistics

Attempt Statistics is found in the drop down menu of the column in your gradebook that contains the assessment. (Item Analysis can also be found there)

Course Reports

- This tool allows you to generate reports on the course usage and activity.
- Reports can help you track what areas of your course students are visiting.
- They provide overall course statistics and individual student statistics.

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They provide overall course statistics and individual student statistics.

Course Reports



Run course reports to view information about course usage and activity. You can search the list of reports based on keywords in the names or descriptions to find the report that generates the information you need.

Course Reports

- Reports are divided into sections and include charts as well as raw data.
- The sections vary depending on what type of report you ran.

Reports are divided into sections and include charts as well as raw data. The sections vary depending on what type of report you ran.

Remember that generating a report in Excel format does not provide you with charts.

Course Reports

For example, the **Overall Summary of User Activity** report's first section displays the number and percentage of hits to each course area or tool, followed by a breakdown of hits by user.

- which tools have had limited access?

The next sections contain bar graphs displaying the users' access during the specified date range, followed by a breakdown of hits by users.

- What are the trends in course access and specific dates a user accessed the course?

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Course Reports

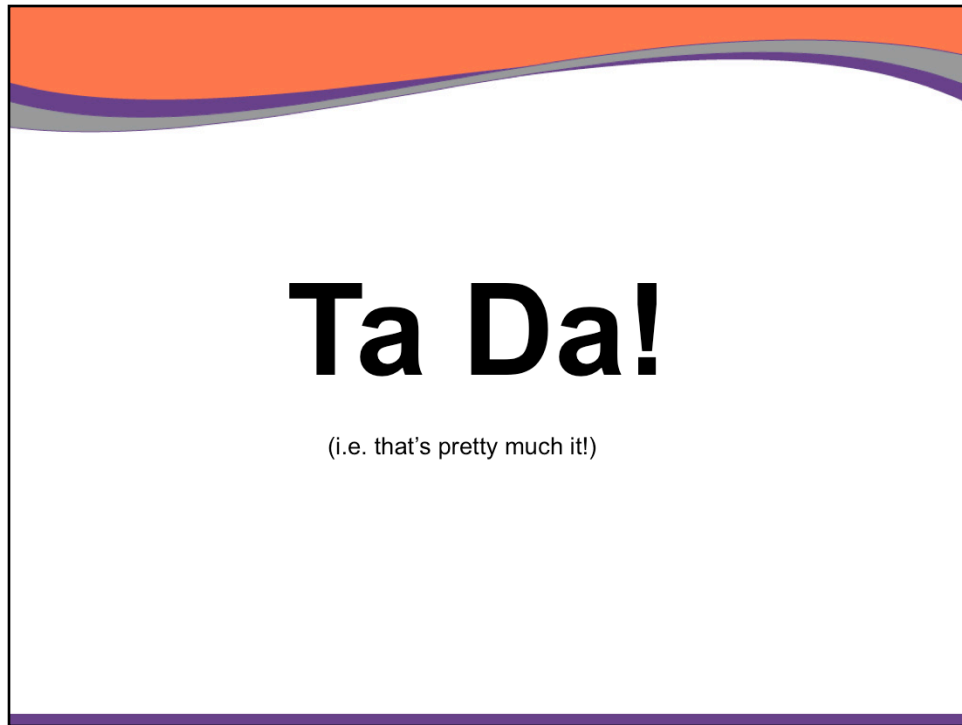
- On the **Run Reports** page, select the **Report Specifications**. Options vary depending on the type of report selected but can include:
- **Select Format:** Choose an output format from the drop-down list. Valid formats are PDF, HTML, Excel, or Word. Charts do not display in Excel format.
- **Select a Start Date** and **Select an End Date:** For reports covering a specific period of time, select to set beginning and ending dates for the report (required when present).
- **Select Student:** For reports on a single student, select the student name from the drop-down list.
- **Select Users:** Select users to include in the report. For Windows, to select multiple users in a list, press the SHIFT key and click the first and last users. To select users out of sequence, press the CTRL key and click each user needed. For Macs, press the COMMAND key instead of the CTRL key.
- **Average Range** and **Target Performance Level:** This is required for course performance reports. These reports can also be set to **Show Unavailable Students** and/or **Show Unaligned Students**.

Submit the report specifications and view the report. If a course report includes a large number of users, it can take several minutes or longer for a report to be generated. PDF and HTML formats open immediately in a new window. Excel and Word prompt you to save the file first. To print reports, use the print function in the application window that the report opened in.

Data In Blackboard...



Now I'm going to go out to one of my Blackboard demo courses where I will show you where all of those data hiding places are



So, this slide just about wraps up the current presentation...and THAT means that I should remind you again that if you have questions, you can type them into the questions and discussion window and we will answer them at the very end of the presentation!

Blackboard Resources

Blackboard on Demand

- <http://ondemand.blackboard.com>

Blackboard Learn Support Page

- http://www.clemson.edu/ccit/learning_tech/blackboard_learn/index.html

Upcoming CCIT Computer Training Classes

- <http://www.clemson.edu/clereg/>

As usual, we like to give you a few more training resources to look at. On the screen are three resource links which will take you to Blackboard video resources of all kinds, a link for general Blackboard support and a link to our upcoming Training Classes.

Miss an episode?



We provide 24/7 access
to the archives!

http://www.clemson.edu/ccit/learning_tech/computer_training/tech_talks/archives.html#archives



for tuning in!

- Lobby Polls?
- Tech Talk survey?
- Log out or...
- Stick around to ask questions...

Before you leave today, I'd like to ask you (if you haven't already done this) to remember to take our Adobe Connect Tech Talk Lobby poll as well as the Tech Talk survey for this week.

It is now....XXX o'clock and I'd like to thank you for joining us today. At this point, the official demonstration is over with but I will be online for at least 10 or 15 more minutes to answer any questions you might have. As usual, these sessions are recorded and will be archived and uploaded to our Training website in case you'd like to review them at a later time.

Thanks again for joining us on Tuesday Tech Talks at 2!