

## Theme: Statistics and result matrix

### Fronter 82

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**New additions in volume 82 of this document**

- There are no changes in this leaflet

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## Introduction

This document deals with statistics and result matrix in Fronter. The examples are an attempt to illustrate familiar problems, and we hope you will nod in recognition to a lot of what we introduce here.

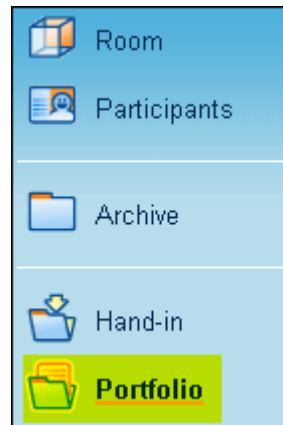
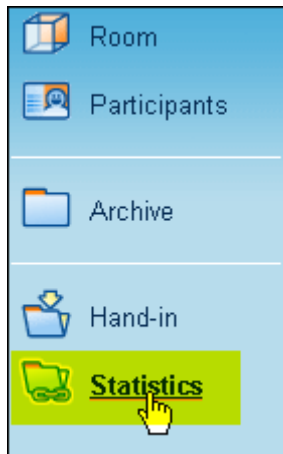
Statistics displays all the activity in the room, and the progress of hand-ins and tests. The result matrix gives the teachers a display of all the hand-ins and answers to tests, with status and grades. In addition the teacher can add new activities, like oral presentations and other tasks that need to be documented. The teacher can make continuous corrections and comments on hand-ins and tests in the result matrix.

Fronter is continually developing and improving. There may therefore be some discrepancies between documentation and application. This guide is written to Fronter 82

We hope you find this guide useful.

Lillehammer, August 2008  
Steinar Hov/Ingun Vaglid

## The tool Statistics/ Portfolio



You will get access to this display by selecting the tools *Statistics* or *Portfolio* in the relevant room.

If this tool is missing, either the room owner or administrator can make sure it is added to the menu on the left.

In this document we will look at the first two tabs, *Statistics* and *Result matrix*:

A screenshot of a web interface showing the 'Statistics' tab selected. The interface has a top navigation bar with tabs: 'Statistics' (highlighted), 'Result matrix', 'Final assessment', 'Learning goals', and 'Details' (with a checkbox). Below the tabs, there are date selection fields: 'Date: From: 2005-05-23 To: 2006-06-16 (yyyy-mm-dd)'. There is a 'User or group:' dropdown menu. Below that, there are three checked checkboxes: 'View statistics for: activity in rooms', 'in tests and courses', and 'for handins'. A 'View' button is located at the bottom right.

## Statistics

First we will look at the details for the tab *Statistics*:

A screenshot of the same 'Statistics' tab interface as above, but with red annotations. A red '(1)' is placed before the 'From' date field. A red '(2)' is placed in the 'User or group:' dropdown menu. A red '(3)' is placed before the 'View statistics for:' label. The rest of the interface is identical to the previous screenshot.

(1) is self-explanatory; you select a time interval for the statistics display. This is particularly important if this is a room that is being re-used year after year, and so may contain "old" exercises, in hidden folders, for instance. You can either enter the date yourself – remember the format is yyyy-mm-dd; or you can select from the drop down menu.

(2) is a search field where you can either search for a pupil/student or a group. To search for a pupil/student you enter the first few letters of the first name or the surname.

The hits will then be displayed in the drop down menu and you can select the correct person (if there are several in the list).

If the participants in the room are enrolled as several groups you can search for one of these as well:

The statistics you select for display will incorporate the person or the group (with its members) that you have searched for and selected.

(3) Here you select the statistics you want displayed:

*Activity in room:*

View statistics for:  activity in rooms  in tests and courses  for handins View

**Activity**

First Name Surname	Last visit	Visits	Documents		Links		Discussion	
			Own	Read	Own	Read	Own	Read
Ben Andersson	2006-01-23	2	3	3	0	0	0	0
Annette Berry	2006-01-23	4	0	0	0	0	0	0
Charles Brown	Not visited	0	0	0	0	0	0	0
Annette Burns	2006-03-30	1	0	0	0	0	0	0
Desmond Burns	2006-01-25	16	0	0	0	0	0	2
Don Evavold	Not visited	0	0	0	0	0	0	0
Emily Green	Not visited	0	0	0	0	0	0	0
Fay Greenfields	2005-07-01	1	0	0	0	0	0	0
Tad Greenfields	Not visited	0	0	0	0	0	0	0
Flora Leyland	2006-01-23	1	0	0	0	0	0	0

Here you will see how many times each individual has visited the room, how many documents each participant has created directly in Fronter or uploaded, and how many documents he/she has read (this is registered every time the participant opens a document), how many links have been created and how many have been read (opened), how many discussions the participant has started and how many discussions he/she has taken part in (written a contribution). Note that each headline, like *Visits* (red arrow) is a sorting button: One click gives you the ascending order, two clicks gives you the descending order:

**Activity**

First Name Surname	Last visit	Visits	Documents		Links		Discussion	
			Own	Read	Own	Read	Own	Read
Jancis Robinson	2006-05-24	18	3	1	0	0	1	1
Desmond Burns	2006-01-25	16	0	0	0	0	0	2
Ben Andersson	2006-01-23	12	3	3	0	0	0	0
Annette Berry	2006-01-23	4	0	0	0	0	0	0
Yvonne Young	2005-07-01	3	1	1	0	0	0	0
Kent Robinson	2005-10-30	2	0	0	0	0	0	0
Neil Sunderland	2006-01-23	2	0	0	0	0	0	0
Laura Simpson	2006-01-23	1	0	0	0	0	0	0
Annette Burns	2006-03-30	1	0	0	0	0	0	0

## Tests and courses:

View statistics:  activity in rooms  in tests and courses  for handins  content usage View

Tests/Courses

First Name	Surname	Course	Status	Progress	Time spent	Date	Score (Grade)
Laura	Simpson	Organic chemistry	Completed	100%	00:00:11	2006-01-23	2/3
Jancis	Robinson	Choose group	Completed	100%	n/a	2006-01-25	18/18
Kent	Robinson	Choose group	Completed	100%	00:00:00	2005-10-30	1/18
Jancis	Robinson	Test: Inert gases	Completed	100%	00:00:21	2004-09-23	2/4 (F)
Jancis	Robinson	Test: Inert gases	Completed	100%	00:00:25	2004-09-23	3/4

Here you get a display of all the test and course results (externally developed courses that are either linked or imported into Fronter).

**Status** for tests and courses displays a status of whether the test or the course has been Completed, Started or Finished. For a test the display will be Started if "Save and postpone" is selected; for a course the display will be Started if the whole course has not yet been completed.

**Progress** for tests either display 0% or 100% - tests in Fronter cannot (yet) calculate completion by percentage.

Progress in courses can be displayed as an exact percentage of the course that has been completed. This progress is displayed if the person who delivers the course has added this function (which is very common, and is displayed so that those who carry out the course find themselves where they left off when they want to continue).

**Date** is the date of course completion

**Score** display both number of points out of total obtainable and in percentage. If the exercises have not been created with points included this field will be empty.

**Marks** are displayed for tests that are marked manually. For courses it is the same as mentioned above.


Note that you are able to click on each test. In other words, you get directly to the answer in question by clicking on it:

You are here: [Introduction to General chemistry](#) > [Tasks](#) Search  Folders

- Organic chemistry
- Is 2,4-dinitr...
- What is a FC-...
- Type 4 differ...
- What is the c...
- The formula f...

EditPreviewStatistics

GeneralSummaryGraph



**Simpson, Laura**

- 1. Is 2,4-dinitrophenylhydrazin an organic compound?  

[1.00] Yes [0.00] No

Add a comment to the answer of this question:
- 2. What is a FC-prosess?

**Student's Reply:**

Here too, the headings are sorting buttons, which may be practical if you are dealing with large numbers.

The teacher can decide which display to be used for tests that are to be displayed in Statistics. Under advanced settings in the actual test there are 3 options: "Choose which result to show when multiple responses exists: First, Last or Best":

**Edit** **Preview** **Statistics**

General Submission **Feedback** Advanced List Metadata Learning goals

---

**Feedback after completion**

- Display automatic feedback after completion
  - Display correct answers
  - Display max and min score
  - Display answers with resultvalue and summary
  - Display customised pop-up message

Message

---

**Feedback in portfolio**

- Display this test in the portfolio

Make grade available when:

- Graded ( Default )
- Published

Choose which result to show when multiple responses exists

- First
- Last
- Best

## Hand-ins:

**Statistics** Result matrix Final assessment Learning goals  Details

Date: From: 2005-05-23 To: 2006-06-16 (yyyy-mm-dd)

User or group: -> All

View statistics for:  activity in rooms  in tests and courses  for handins

View

**Hand-in**

Choose folder: View All

First Name	Sumam	Title	File size	Delivery date	Status	Score
Ben Andersson	20050715 Organic chemistry	FC proses	820.3 kB	2005-06-15 23:08	✗	
Ben Andersson	20050715 Organic chemistry	FC analysis	32.5 kB	2005-06-15 23:04	✓	
Ben Andersson	20050715 Organic chemistry	On the theory of PVC	816.6 kB	2005-06-15 23:07	?	
Charles Brown	20050715 Organic chemistry	Handed in on paper	0 bytes	2005-12-01 16:43	?	
Fay Greenfields	20050715 Organic chemistry	Plastics	0 bytes	2005-07-01 11:58	?	
Jancis Robinson	Assignment 2 - experiment elements	Report the Elements	615.5 kB	2006-01-11 00:22	✓	B
Sarah Winter	20050715 Organic chemistry	Excercise 14	20.0 kB	2005-07-01 11:38	✓	

Here you will get a display of all the hand-ins in this room. To filter the data you can choose which hand-in folder you want to be displayed (customised option is *View All*). You can then click on each individual answer to open it. The symbols on the right have the following meanings (as in the hand-in folder):

- ✓ The answer is approved
- ➔ The pupil's/student's answer are in progress (has started)
- ✗ The answer has not been approved
- ÷ Not handed in (this status is only displayed in the result matrix – see later in this document)
- ? The answer has not yet been evaluated

It is also possible to read the comments by placing a tick for *Details* at the very top:

[Statistics](#) [Result matrix](#) [Final assessment](#) [Learning goals](#) [Details](#)

**Date:** From:  To:  (yyyy-mm-dd)

**User or group:**

**View statistics for:**  activity in rooms  in tests and courses  for handins

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**Hand-in**

Choose folder:

First Name	Surname	Folder Name	Title	File size	Delivery date	Status	Score
Ben Andersson		20050715 Organic chemistry	On the theory of PVC	816.6 kB	2005-06-15 23:07	✓	A
		<b>Self assessment:</b> A very, very interesting subject!					
		<b>Teacher comment:</b> Brilliant! This was really good work!					
Ben Andersson		20050715 Organic chemistry	FC analysis	32.5 kB	2005-06-15 23:04	✓	

Here you will be able to read the pupil's/student's self-evaluation and comments from teacher.

## Result matrix

The tab *Result matrix* gives us a dynamic display of hand-ins and answers to tests, whilst at the same time the teacher is able to add new assignments directly in the matrix:

[Statistics](#) [Result matrix](#) [Final assessment](#) [Learning goals](#)

**Date:** From:  To:  (yyyy-mm-dd)

**User or group:**

**Freertext:**

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**Search results**

Name	Organic chemistry	Test yourself	Assignment 2 - experiment elements	Show evaluations
US3preview				
Andersson, Ben	Score (0 / 3)			X
Berry, Annette	Score (0 / 3)			⋮
Brown, Charles				?
Burns, Annette				⋮
Burns, Desmond				⋮
Evavold, Don				⋮
Green, Emily				⋮
Greenfields, Fay				?
Greenfields, Tad				⋮
Guestuser, International				⋮
Leyland, Flora				⋮
Look, Have A				⋮
Macallen, Don				⋮

The evaluation status displayed depends on the option that has been selected. Above you will see the display of the evaluation result. Other options are *Show grades*:

Statistics **Result matrix** Final assessment Learning goals [Create new assignment](#)

Date: From: 2004-05-23 To: 2005-01-01 (yyyy-mm-dd)

User or group: ->

Freetext:

**Search results**

Name	yourself	Assignment 2 - experiment elements	20050715 Organic chemistry	The inert gases
US3preview	A			
Andersson, Ben	B		Score	
Berry, Annette	B			Score
Brown, Charles	D		Score	
Burns, Annette	F			
Burns, Desmond	E			C+
Evavold, Don	A			
Green, Emily	A			
Greenfields, Fay	C		Score	
Greenfields, Tad	Score			

and the last option is *Show only numbers*:

**Search results**

Name	1	2	3	4	5	6	1	2	3
US3preview							A		
Andersson, Ben							B		
Berry, Annette							B		
Brown, Charles							D		
Burns, Annette							F		
Burns, Desmond							E		C+
Evavold, Don							A		
Green, Emily							A		
Greenfields, Fay							C		
Greenfields, Tad									

**Note:**

A test can of course be set up so that a pupil/student can have several attempts at it (customised). Which result is displayed in this result matrix? This is determined by a specific setting in the test itself:

### Feedback after completion

Display automatic feedback after completion

- Display correct answers
- Display max and min score
- Display answers with resultvalue and summary
- Display customised pop-up message

Message

---

### Feedback in portfolio

Display this test in the portfolio

Make grade available when:

Graded ( Default )
  Published

Choose which result to show when multiple responses exists

First
  Last
  Best

Regardless of which of these three display methods you use you can click on the hand-in folder or the test in the top row:

Search results Show evaluations ▾

Name	yourself	Assignment 2 - experiment elements	20050715 Organic chemistry	The inert gases
US3preview	✓			⋮
Andersson, Ben	✓		✗	⋮
Berry, Annette	✓		⋮	✗
Brown, Charles	✓		⋮	⋮
Burns, Annette	✗		⋮	⋮
Burns, Desmond	✓		⋮	✓
Evavold, Don	✓		⋮	⋮
Green, Emily	✓		⋮	⋮
Greenfields, Fay	✓		⋮	⋮
Greenfields, Tad	⋮		⋮	⋮

Here you will find a form for quick marking of evaluation, score and comments:

Assignment 2 - experiment elements					
Surname, First Name	Evaluation	Score	Comment		
, US3preview	<input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	A	Brilliant!		
Andersson, Ben	<input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	B	Nice try, indeed - just small bits and pieces missing for an A!		
Berry, Annette	<input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	B			
Brown, Charles	<input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	D	Try harder - this has to be continued!		
Burns, Annette	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	F			
Burns, Desmond	<input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	E			
Evavold, Don	<input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	A			
Green, Emily	<input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	A			

If you click on a test, as in this example:

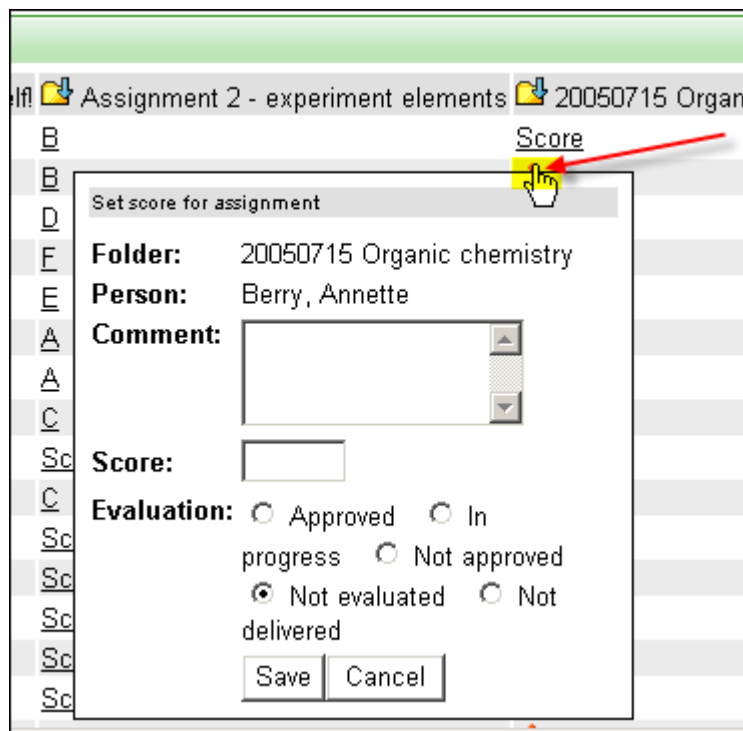
Search results					
Name	Choose group	Quiz: Group 1	Quiz: Group 18	Bits and pieces	Organic chemistry
US3preview					
Andersson, Ben	Score (1 / 18)	Score (2 / 3)			Score (0 / 3)
Berry, Annette					Score (0 / 3)
Brown, Charles		Score (1 / 3)			
Burns, Annette					
Burns, Desmond			Score (3 / 3)		
Evavold, Don					
Green, Emily					
Greenfields, Fay					

the result will be displayed like this:

Quiz: Group 1					
Edit Preview Statistics					
General Summary Graph					
		Search		<input type="checkbox"/> in started tests	
<input type="checkbox"/> Surname, First Name	Username	Delivered	Score	Grade	
<input type="checkbox"/> <a href="#">Berry, Annette</a>	muc028	2006-12-01 11:30:39	0	s	
<input type="checkbox"/> <a href="#">Andersson, Ben</a>	muc002	2005-03-10 21:56:57	0	s	
<input type="checkbox"/> <a href="#">Andersson, Ben</a>	muc002	2005-03-10 21:56:40	1	s	

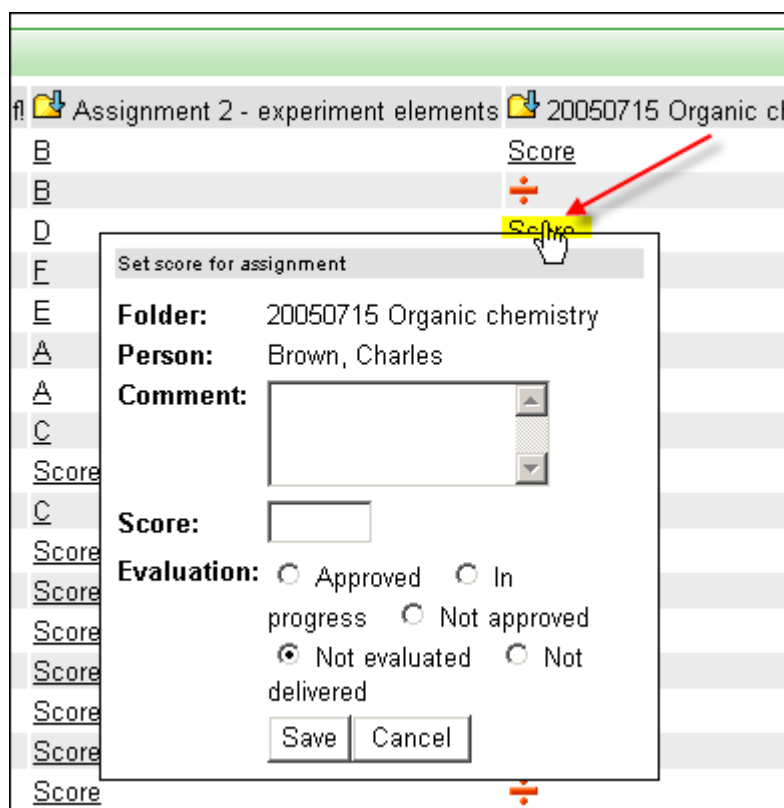
You will in other words get directly into the statistics for the actual test. Here you can, as you know, click on each separate answer and mark it, if appropriate.

You are also able to click on the symbols from the main display:



Here you will be able to enter a status for a pupil/ student.

You can also click on the grade



so that you may enter them individually for each pupil.

## Create new assignment

In the upper right hand corner you can create a new assignment. You can enter an evaluation status, a grade and/or comments on the assignment. This could for instance be an exercise/assignment that the pupils/students have carried out orally, like a presentation; or a practical accomplishment like a physics experiment, or running the 100 meters.

This assignment will then appear as a new column with a separate icon:

Name	Score	Comment
Andersson, Ben	Score (0 / 3)	B
Berry, Annette	Score (0 / 3)	B
Brown, Charles		D
Burns, Annette		F
Burns, Desmond		E
Evavold, Don		A

By clicking on the assignment or the icon you will be given the option of a quick registration of the evaluation status, grade and comments:

Surname, First Name	Evaluation	Score	Comment
Andersson, Ben	<input type="radio"/> ✓ <input type="radio"/> → <input type="radio"/> ✗ <input type="radio"/> ÷ <input type="radio"/> ?		
Berry, Annette	<input type="radio"/> ✓ <input type="radio"/> → <input type="radio"/> ✗ <input type="radio"/> ÷ <input type="radio"/> ?		
Brown, Charles	<input type="radio"/> ✓ <input type="radio"/> → <input type="radio"/> ✗ <input type="radio"/> ÷ <input type="radio"/> ?		
Burns, Annette	<input type="radio"/> ✓ <input type="radio"/> → <input type="radio"/> ✗ <input type="radio"/> ÷ <input type="radio"/> ?		
Burns, Desmond	<input type="radio"/> ✓ <input type="radio"/> → <input type="radio"/> ✗ <input type="radio"/> ÷ <input type="radio"/> ?		
Evavold, Don	<input type="radio"/> ✓ <input type="radio"/> → <input type="radio"/> ✗ <input type="radio"/> ÷ <input type="radio"/> ?		

## Version control

Version	Date	Description	Responsible
62.1	09.09.2006	Theme: Statistics and result matrix	Steinar Hov
71.1	21.02.2007	no changes	Steinar Hov
82.1	25.08.2008	no changes	Steinar Hov

## QA Revision

Date	Verified by	Comments
09.09.06	Ingun Vaglid	Added some additional examples and proof read the English version.
21.02.07	Ingun Vaglid	Approved
25.08.08	Ingun Vaglid	Approved