

## Quercus Analytics: An Instructors Guide to Making Meaning from Available Data

This document provides a collection of techniques and strategies garnered through the D3 program activities that can be replicated by instructors in their own courses to make meaning of data available through the Quercus platform:

### Getting started

1. **Use On-the-fly synchronous knowledge checks**
2. **Using the standard dashboard to “View Course Analytics”**
3. **Enable “New Course and User Analytics” feature**

### Digging deeper with “New Analytics”

4. **Run the New Analytics “Course Activity” report, monitor discussion activities**
5. **Follow the weekly pulse of your course with New Analytics**
6. **Review high level access of essential course documents with New Analytics**

### Building expertise by analyzing log file exports

7. **Find out which resources were accessed most**
8. **Find out when they were accessed.**

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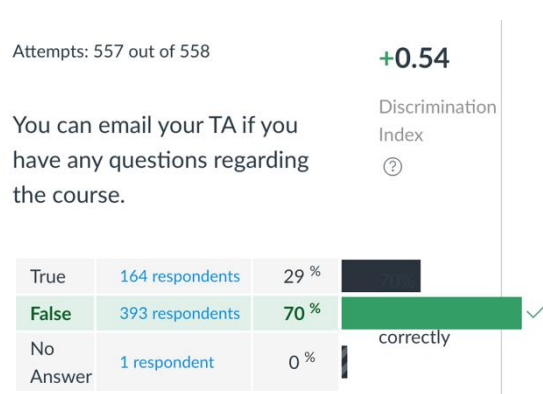
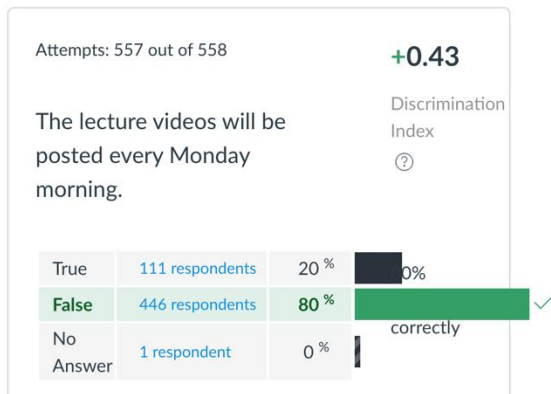
### Getting Started

#### 1. Use On-the-fly synchronous knowledge checks

During a synchronous lecture, ask your students to take short Quercus knowledge check quizzes. From the quiz set up page, use the Quiz Statistics report to access detailed, on-the-spot assessment of student learning. Look for this link/function on the right side of the instructor view:



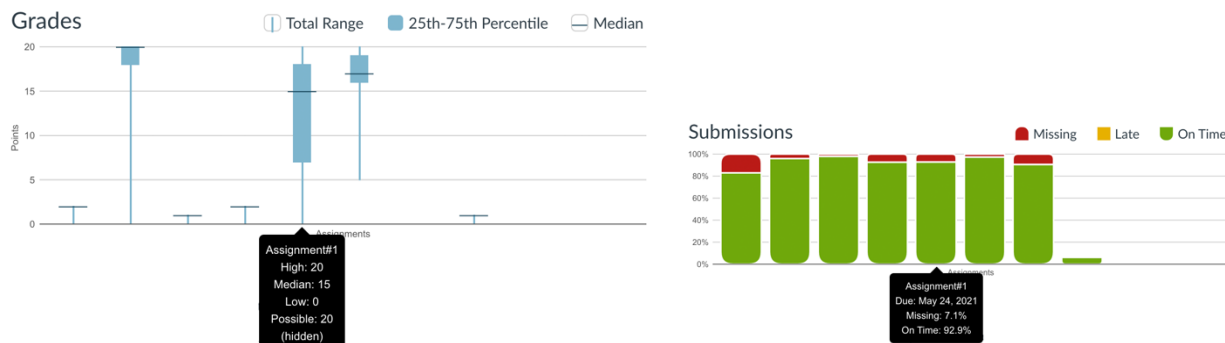
*Example screenshot from a course/prof using a knowledge check quiz activity in a large course:*



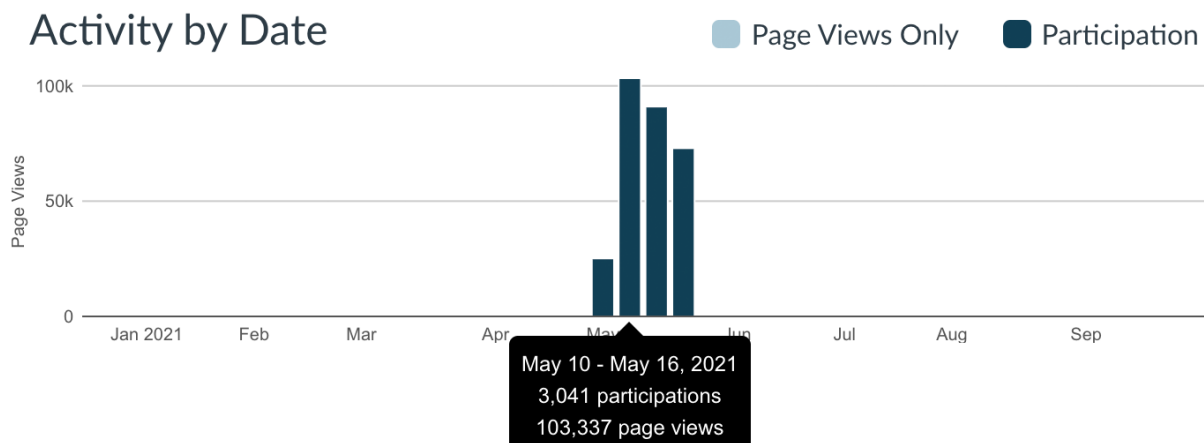
## 2. Explore “View Course Analytics” to see standard dashboard activity data:

By default, a course analytics dashboard is enabled in all courses. Use these tools for a general sense of course activity, grades and completion of assignments

*Example screenshots of quick visualizations of grades, submissions per assignment:*



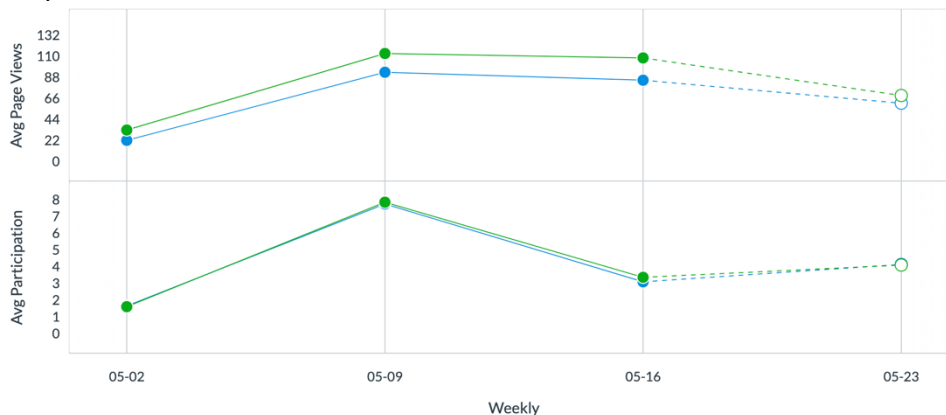
*Aggregate views of data:*



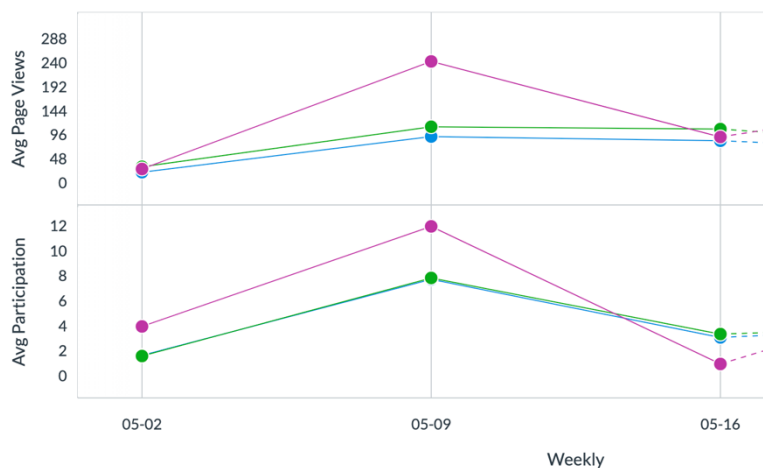
## 3. Enable the “New Course and User Analytics” feature

Using the more advanced dashboard, view the activity patterns such as weekly page views to get a general sense of engagement.

*Example screenshot of average course activity (blue) compared against activity in a particular tutorial group:*



*In this example, individual student activity (purple) can be shown relative to the course or section.*



Digging deeper with “New Analytics”

#### 4. Run the New Analytics “Course Activity” report, monitor discussion activities:

Under New Analytics Reports tab, select “Course Activity” to download a full detailed log report to Excel. Create a Pivot Table with contentType as a filter=“course.discussions.discussion”, contentName as rows, Sum of pageviews and sum of participations as Values. View relative engagement for across tutorial groups or discussion topics:

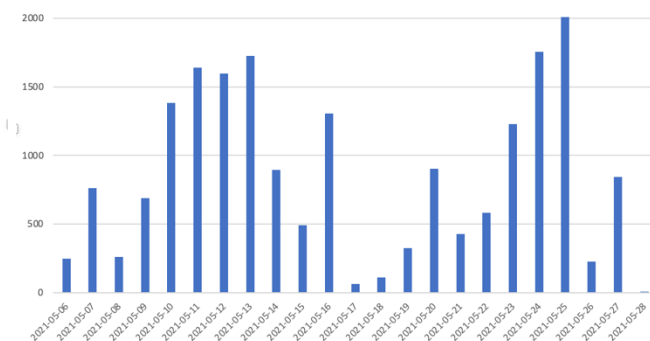
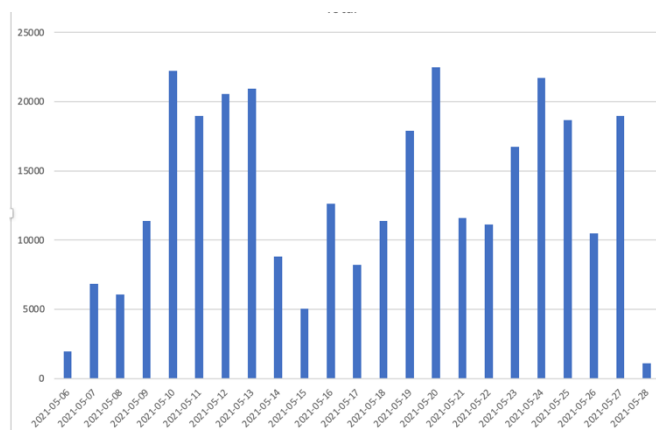
*Example screenshot shows page view and participation counts.*

contentType	course.discussions.discussion	
Row Labels	Sum of pageviewCount	Sum of participationCount
Introduction Activity-TUT9001	500	224
Introduction Activity-TUT9002	512	202
Introduction Activity-TUT9003	564	226
Introduction Activity-TUT9004	624	182
Introduction Activity-TUT9005	532	192
Introduction Activity-TUT9006	612	242
Introduction Activity-TUT9007	640	214
Introduction Activity-TUT9008	528	188
Introduction Activity-TUT9009	362	144
Introduction Activity-TUT9010	534	140
Introduction Activity-TUT9011	342	114
Introduction Activity-TUT9012	478	164
Introduction Activity-TUT9013	362	144
Introduction Activity-TUT9014	290	106
Post Your Questions Here!	514	8
Practice Exercises-Next Week	1173	0
Weekly Update-Please Read	2780	0
<b>Grand Total</b>	<b>27781</b>	<b>2650</b>

## 5. Follow the weekly pulse of your course with New Analytics

Under New Analytics Reports tab, run Course Activity – and download full report to Excel. Create a Pivot Table with startDate as rows, Sum of pageviews as Values or Sum of participations.

*Example screenshots show Values (left) and Sum of participations (right).*



## 6. Review accessing of essential course documents with New Analytics

Under New Analytics Reports tab, run Course Activity – and download full report to Excel. Create a Pivot Table with contentName = "\*" as a filter (whatever you want to track, e.g. Course Home), studentName as rows, Sum of pageviews as Values. Then sort from smallest to largest. You'll see the names of any students who have accessed the least number of times.

Row Labels	Sum of pageviewCount
(student name hidden)	14
(student name hidden)	84
(student name hidden)	120
(student name hidden)	138
(student name hidden)	146
(student name hidden)	154
(student name hidden)	206
(student name hidden)	228
(student name hidden)	232

Building expertise by analyzing log file exports

## 7. Find out which resources were accessed most

Under New Analytics Reports tab, run Course Activity – and download full report to Excel. Create a Pivot Table with filters and contentType = “\*” (whatever you want to track, e.g. for course Files select ‘course.files.file’ and for pages select ‘course.pages.page’), contentName as rows, Sum of pageviews values.

Example screenshot shows data sorted from largest to smallest:

contentType	course.files.file	↕
Row Labels	Sum of pageviewCount	
LINA01_SYLLABUS_SUM2021.pdf	9067	
Lecture#2-Morphology I.pdf	5576	
LINA01-Week 1-Introduction.pdf	5092	
LINA01-Morphology II-Lecture Notes .pdf	4891	
LINA01_SCHEDULE_SUMMER_2021.pdf	4364	
LINA01_LECTURE_4_Syntax I.pdf	3363	
Week 1-Practice Exercises-Part I-1.docx	3311	
LINA01-Summer2021-Assignment1-3.docx	2914	
LINA01_exampleaffixes.pdf	2744	
Week 5 Lecture Notes Syntax II-With Notes.pptx	2554	
Module 2-Morphology II-Practice Exercises.docx	2509	
Week 1-Practice Exercises-Part II.docx	2303	
LINA01-Summer2021-Assignment1-2.pdf	2251	
LINA01-Practice Exercises-SyntaxII.docx	2181	
Module 2-Syntax I-Practice Exercises.docx	2028	
Week 6 Lecture Notes Syntax III.pptx	1732	
LINA01 Practice Exercises-Syntax III.docx	1193	
LINA01 How to draw and save structure trees.pdf	580	
LINA01-Summer2021-Assignment1.docx	204	
LINA01-Summer2021-Assignment1.pdf	150	
LINA01_SYLLABUS_SUM2020.pdf	22	
A Tour of Bb Collaborate.mov	20	
Week 5 Part 3 trees.pdf	4	
LINA01 Tutorial 5 exercises Student Copy.docx	2	
<b>Grand Total</b>	<b>59055</b>	

**8. Find out which resources were accessed most and when they were accessed.**

Analyze when the resources were first accessed through addition of start Date to the pivot table rows.

*Example screenshot shows combined pivot table:*

Row Labels		Sum of pageviewCount
LINA01_SYLLABUS_SUM2021.pdf		9067
	2021-05-09	985
	2021-05-10	1542
	2021-05-11	1112
	2021-05-12	1058
	2021-05-13	842
	2021-05-14	470
	2021-05-15	300
	2021-05-16	604
	2021-05-17	174
	2021-05-18	144
	2021-05-19	256
	2021-05-20	284
	2021-05-21	122
	2021-05-22	178
	2021-05-23	186
	2021-05-24	212
	2021-05-25	186
	2021-05-26	72
	2021-05-27	158
	2021-05-28	68
	2021-05-29	48
	2021-05-30	66