

StudentQuiz - Empowerig Students

HSR University of Applied Sciences Rapperswil
Prof. Frank Koch, frank.koch@hsr.ch
Global Moodle Moot November 2019



StudentQuiz - Empowering Students

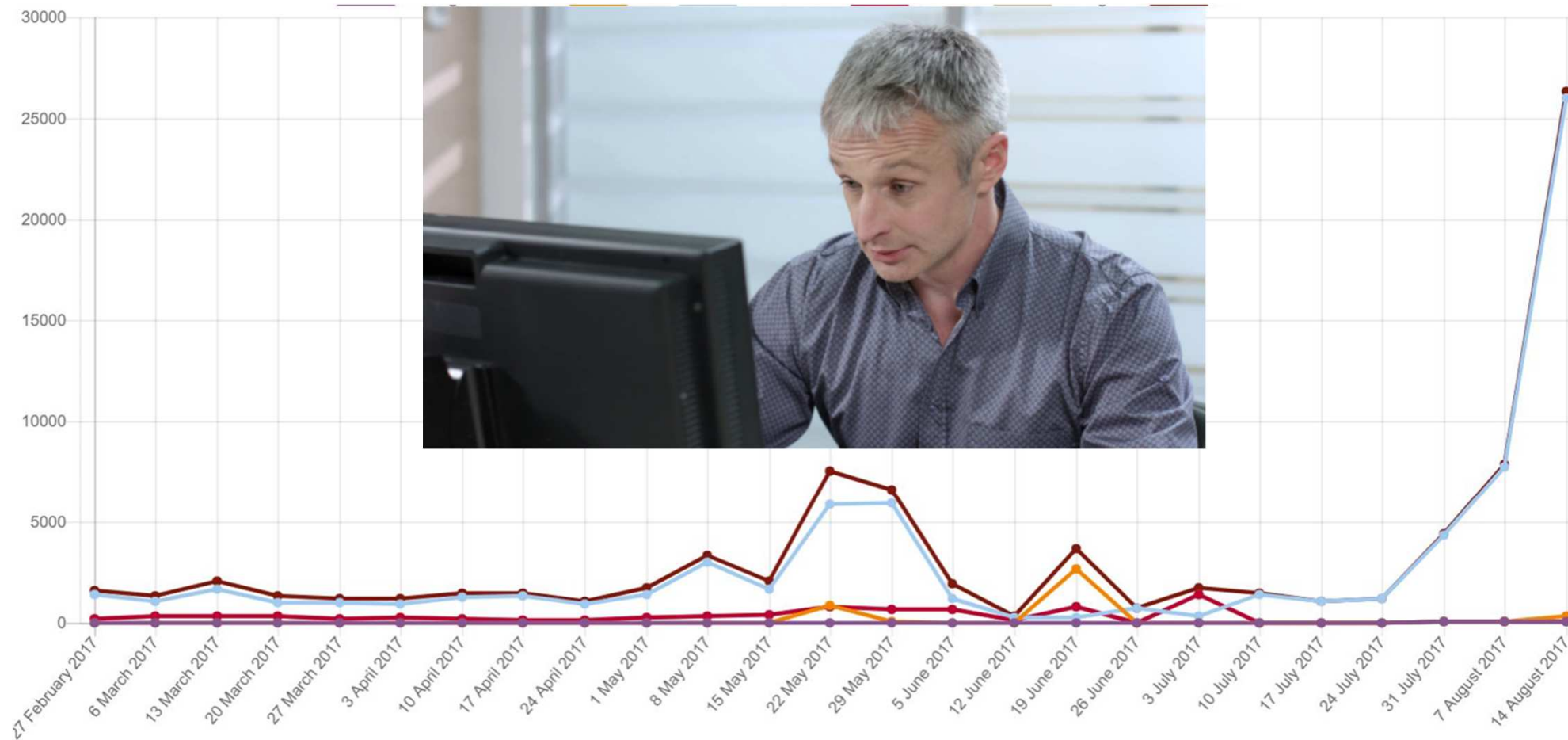


Student

Quiz



StudentQuiz - Motivation





StudentQuiz - Implementation

- StudentQuiz makes Moodle content **student-driven**.
- StudentQuiz enables students to **collaboratively** create their own question pools.
- Students can **filter** questions into quizzes, and they can rate and comment questions while working through the quizzes.
- StudentQuiz collects **usage data** for each question and ranks students based on their contribution and answers.
- The **Personal Learning Assistance** shows each student his/her individual learning progress and compares this with the community.
- Created questions become part of the Moodle question bank and can be **reused** in standard Moodle quizzes.
- StudentQuiz was developed at the HSR University of Applied Sciences Rapperswil, is open source GPLv3, and can be downloaded from the Moodle Plugin Directory.



StudentQuiz - Create a new StudentQuiz Activity

▼ Question settings

Allowed question types [?](#)

- Allow all question types
- Multiple choice
- True/False
- Matching
- Short answer
- Numerical
- Calculated
- Calculated multichoice
- Calculated simple
- Description
- Drag and drop into text
- Drag and drop markers
- Drag and drop onto image
- Embedded answers (Cloze)
- Select missing words

Enforce rating [?](#) **Ranking settings**

Enforce comment

Make students anonymous [?](#)

Publish new questions [?](#)

Created question factor [?](#)

Approved question factor [?](#)

Rating factor [?](#)

Latest correct answer factor [?](#)

Latest wrong answer factor [?](#)

Exclude roles in ranking [?](#) Manager Course creator Teacher Non-editing teacher Student Guest Authenticated user Authenticated user on frontpage

StudentQuiz WI1 FS19



Create new question

Filter

Fast filter for questions

Unanswered New Approved Disapproved Changed Good Mine Difficult for me

Difficult for all

Filter Reset

Show more...

With selected:

Start Quiz

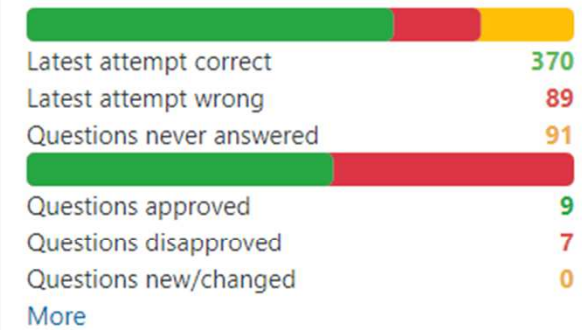
<< 1 2 3 4 5 6 7 **8** 9 10 ... 28 >>

Page size: 20

Show all 560

<input type="checkbox"/> T S Question	Created by	Tags	My Attempts	Difficulty	Rating	C
	First name / Surname / Date		Number / Latest	Average / Mine	Average / Mine	
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My Progress



Ranking (anonymised)

1. Anonymous Student	1182
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[More](#)

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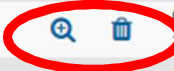
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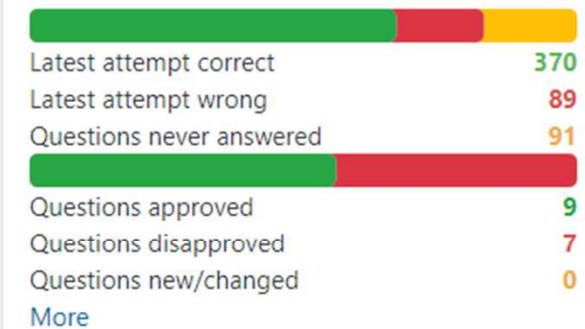
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Global Moodle Moot 2019, Frank Koch

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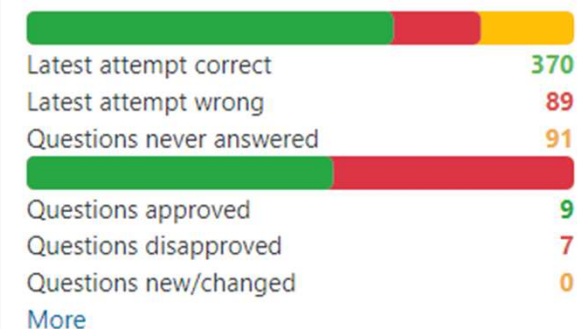
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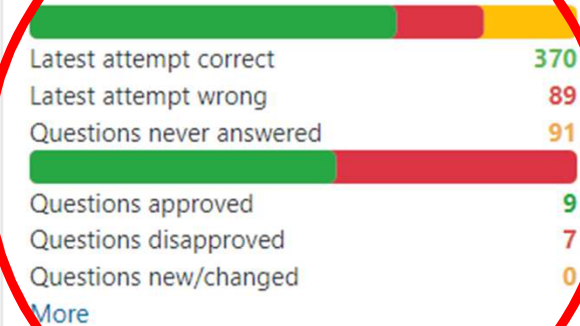
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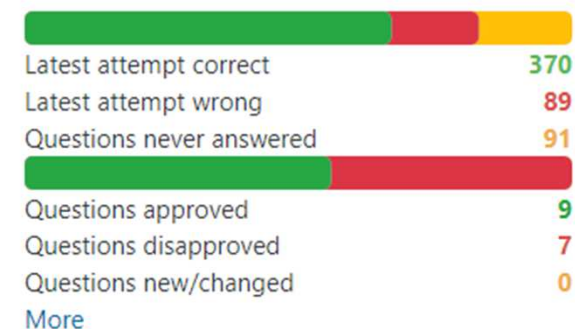
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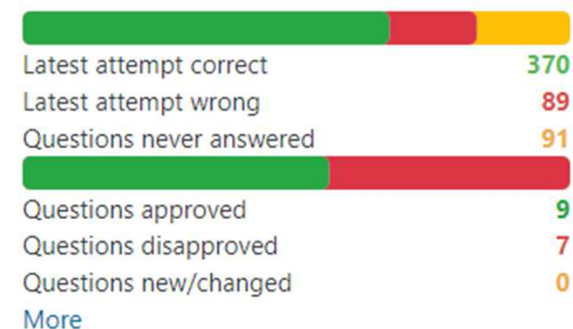
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Double-Spending-Attack

Question 1
Correct
Mark 1.00 out of 1.00
🚩

Welches der folgenden Szenarien entspricht einer Double-Spending-Attack ?

Select one or more:

- a. Alice bezahlt sich selber mehrmals den gleichen Bitcoin an ihre eigene Address (Identity)
- b. Paul ist Bitcoin millionär findet aber keinen weg das Geld in Schweizerfranken umzutauschen
- c. Philipp bezahlt eine Cola mit Bitcoins und einen Tag später kauft er einen Ice Tea mit den gleichen Coins. ✓
- d. Sara zahlt Bob einen Bitcoin für ein Auto ohne das Auto jemals zu bekommen.

Die Antwort ist richtig.

The correct answer is: Philipp bezahlt eine Cola mit Bitcoins und einen Tag später kauft er einen Ice Tea mit den gleichen Coins.

Change state: Chosen Submit

Rate : ★★★★★

Abort

Next

Add comment :

Add comment

28 August 2019, 6:06 PM | Martin Odermatt

[Remove](#)

Single Choice Aufgabe..

3 May 2019, 4:49 PM | Frank Koch

[Remove](#)

"Alice bezahlt sich selber mehrmals den gleichen Bitcoin" ist kein Double Spending Attack, sofern sie den Bitcoin immer an ihre gleiche Address (Identity) sendet. Es ist OK an sich selber zu zahlen. Und das kann man auch wiederholt tun. Ich erlaube mir diese Aussage auf False zu setzen, weil es ansonsten ja eine schöne Frage ist. Bitte melden Sie sich per Mail, falls Sie nicht einverstanden sind.



StudentQuiz - Ranking View

Student ranking - Top 10

Rank	Fullname	Total Points	Points for questions created	Points for approved questions	Points for stars received	Points for latest correct attempts	Points for latest wrong attempts	Personal progress
1	Anonymous Student	1181.5	180	50	155.5	800	-4	73 %
2	Anonymous Student	1158.1	170	50	134.06	804	0	73 %
3	Anonymous Student	1086.6	130	65	121.59	774	-4	70 %
4	Anonymous Student	1071.8	130	60	109.77	776	-4	71 %
5	Gianluca Zanetti	986.5	160	45	130.49	740	-89	67 %
6	Anonymous Student	974.3	80	30	70.3	794	0	72 %
7	Anonymous Student	972.8	100	30	83.84	768	-9	70 %





StudentQuiz - Statistics View

Statistics

Personal Statistics	Value	Community Statistics	Value
Number of questions you have contributed	16	Number of questions in this StudentQuiz	550
Number of your approved questions	9	Number of approved questions	390
Your received rating average	2.72	Rating average of all questions	2.71
Total of all your answers	2306	Community average of all answers	612.12
Percentage of your correct answers	56 %	Community percentage of correct answers	55 %
Personal Progress	67 %	Average Community Progress	35 %



StudentQuiz - Summary Properties

- **Cooperation:** You're not alone
- **Collaboration:** Create and share
- **Crowd-Intelligence:** Rating and Commenting
- **Personal Learning Assistance:** How am I doing?
- **Gamification:** Take advantage of competitiveness
- **Constructivism:** It's good to answer a question, it's so much better to create one
- **Flipped Classroom:** Students create, coach facilitates
- **Inspiration:** Students' creativity often rocks



Example University of Otago, New Zealand

- University of Otago started in faculty of medicine with 1 800 students
 - 5 shared banks:
 - Obstetrics and gynaecology maintains 450 questions
 - Pediatrics maintains 400 questions
 - Psychology maintains 300 questions
 - Pathology maintains 900 questions
 - Pharmacology maintains 500 questions
 - 5th year student revision course maintains 5 750 questions
 - Up to 120 simultaneously working students
 - No performance issues
- University of Otago now opened StudentQuiz for all its 20 000 students









Example University of Applied Sciences Rapperswil / Switzerland

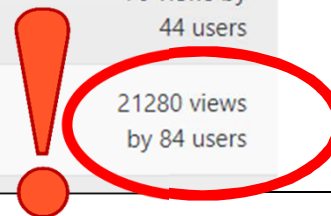
- Course with 84 students
- Each student was asked to provide 4 questions
- During the course of the semester they shared 540 questions
- Given these figures, students submitted 21'280 answers!

Wirtschaftsinformatik 1 FS2018

► Filter

Computed from logs since Wednesday, 23 July 2014, 11:53 AM.

Activity	Views
 Nachrichtenforum	342 views by 44 users
 Semesterprogramm WI1 FS18	542 views by 80 users
 Lehrmittel Wirtschaftsinformatik 1	114 views by 51 users
 Auszüge Buch Wirtschaftsinformatik (3. Auflage 2016)	155 views by 53 users
 Companion Website	70 views by 44 users
 StudentQuiz WI1 FS18	21280 views by 84 users





StudentQuiz - A Student's Voice

StudentQuiz was extremely helpful for me in catching up with the class.
With StudentQuiz I could directly check and consolidate my understanding of the substance.





StudentQuiz - Resources

- Find all resources at <https://studentquiz.hsr.ch>
 - Introduction video for teachers
 - Introduction video for students
 - Manuals (*English, German, Spanish*)
 - Sandbox to play your game
 - Feedback form
 - Contact (*frank.koch@hsr.ch*)
- Official Moodle Plugin Directory
 - https://moodle.org/plugins/mod_studentquiz
- Source on Github
 - https://github.com/frankkoch/moodle-mod_StudentQuiz
- StudentQuiz speaks Catalan, Castellano, and many other languages



StudentQuiz – A Teacher's Voice

- Think about the question types allowed
- Train students how to create good questions, especially MC
- Contribute some good quality questions as guide lines first
- Require a minimum number of questions from each student
- Make sure questions are distributed evenly over time
- Create a gamified atmosphere
- Be fast with comments, be tough with approvals and deletes
- You maybe want to mention that you “maybe” want to recycle some good questions for the exam ;-)



StudentQuiz - Q & A

Next Steps

- Please share the introduction video with interested colleagues
- Feel free to contact frank.koch@hsr.ch
- Feel free to give feedback



Discussion

- Anything missing?
- Special learning scenarios?
- Are you interested using StudentQuiz?



Thank you for your Attention