

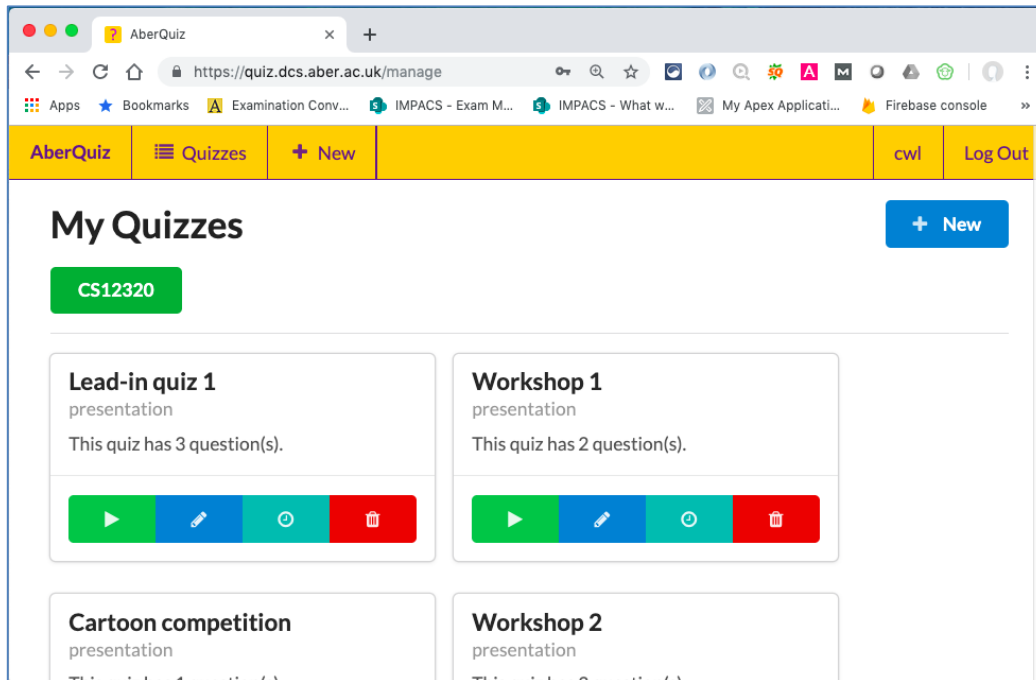
# Aber Quiz

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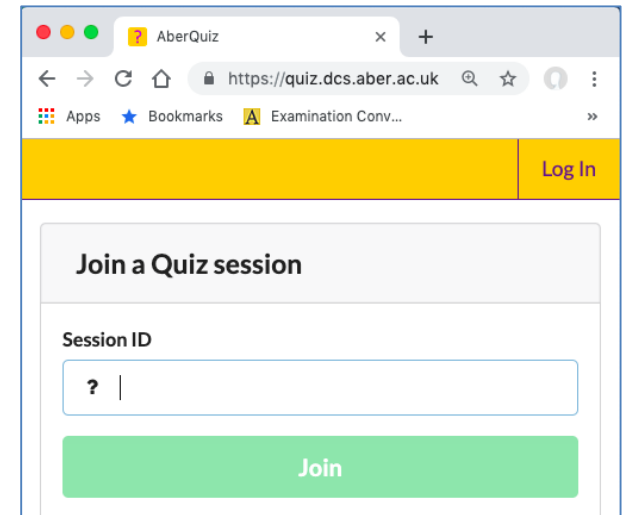
<http://users.aber.ac.uk/cwl/ltc-2019.pdf>

# What is it?

Developed in Computer Science Dept  
by MEng Software Engineering student  
Adam Lancaster



A tool for making  
quizzes (lecturer view)...



A tool for participating in  
quizzes (student view)...

# Replacement for Qwizdom Virtual Remote (QVR)

- Up until December 2018 we had a licence for QVR, too expensive...
  - Also had single session problems (hijacked sessions) and security issues...
- At least five lecturers in CS used QVR and we wanted to find an alternative
  - Considered commercial tools, e.g. Mentimeter seemed the most promising:  
<https://www.mentimeter.com/>
  - However, quite severe restrictions on the free version and we didn't want to pay...

# Trial of Aber Quiz

- Decided to trial an MEng student project Aber Quiz in my first year programming class: lectures (200+ students), workshops (80 students)
  - Was also used successfully in two other modules
- Survey at end of semester was very positive but suggested some improvements
  - Will come back to this...

# Number Range example

Go to URL: [quiz.dcs.aber.ac.uk](http://quiz.dcs.aber.ac.uk)

# What do you think is the single most important reason that we're using interactive quizzes?



1. *Promotes your ability to communicate your ideas.*
2. *Strengthens your ability to debate and defend your answers, and to suggest improvements.*
3. *Promotes peer discussion that is balanced, with ideas put forth evenly from both partners.*
4. *Promotes a safe environment for you to answer what you honestly think, rather than answering what you think the instructor wants.*
5. *Gives you feedback on how well you understand a topic.*
6. *Gives me as your instructor feedback on what needs to be taught better, or expanded upon.*
7. *Encourages you to mentally engage with the concepts so that the lecture is not just passive listening and note taking.*
8. *Encourages attendance .*

# The way I use interactive quizzes

- I tend to get students to answer questions on their own
- Show results of answer
  - If they don't vary a lot ask them to discuss amongst themselves and vote again
  - This often moves the answer in the right direction: peer learning
- Then discuss the answers with students
- Gives me a break from talking, wakes them up and I can see if they're understanding

Multiple choice example

Continue with: [quiz.dcs.aber.ac.uk](http://quiz.dcs.aber.ac.uk)



Which of the following have you done before?  
(Choose all that apply)



- A) Rode a bicycle
- B) Drove a car
- C) Drove a mini-bus
- D) Drove a lorry
- E) None of the above

Single choice example

How do you normally travel to work?



A) Drive

B) Cycle

C) Bus

D) Walk

E) Run

True/False example



Do you speak Welsh fluently  
(true/false)?

Writing Aber Quiz slides:  
**Let's build a quiz together**

# Simply use whatever tool you normally use and generate PDF

- E.g. use PowerPoint or whatever to create a quiz slide(s) of your choice
  - Single choice
  - Multiple choice
  - Number range
  - True/false
- Save a copy as PDF (File -> Save As and select PDF)
- I will use PowerPoint, two questions:
  - Are you having a lovely day (true/false)?
  - How often would you use this quiz software? (single choice)

# Log in

AberQuiz Log In

## Staff Log In

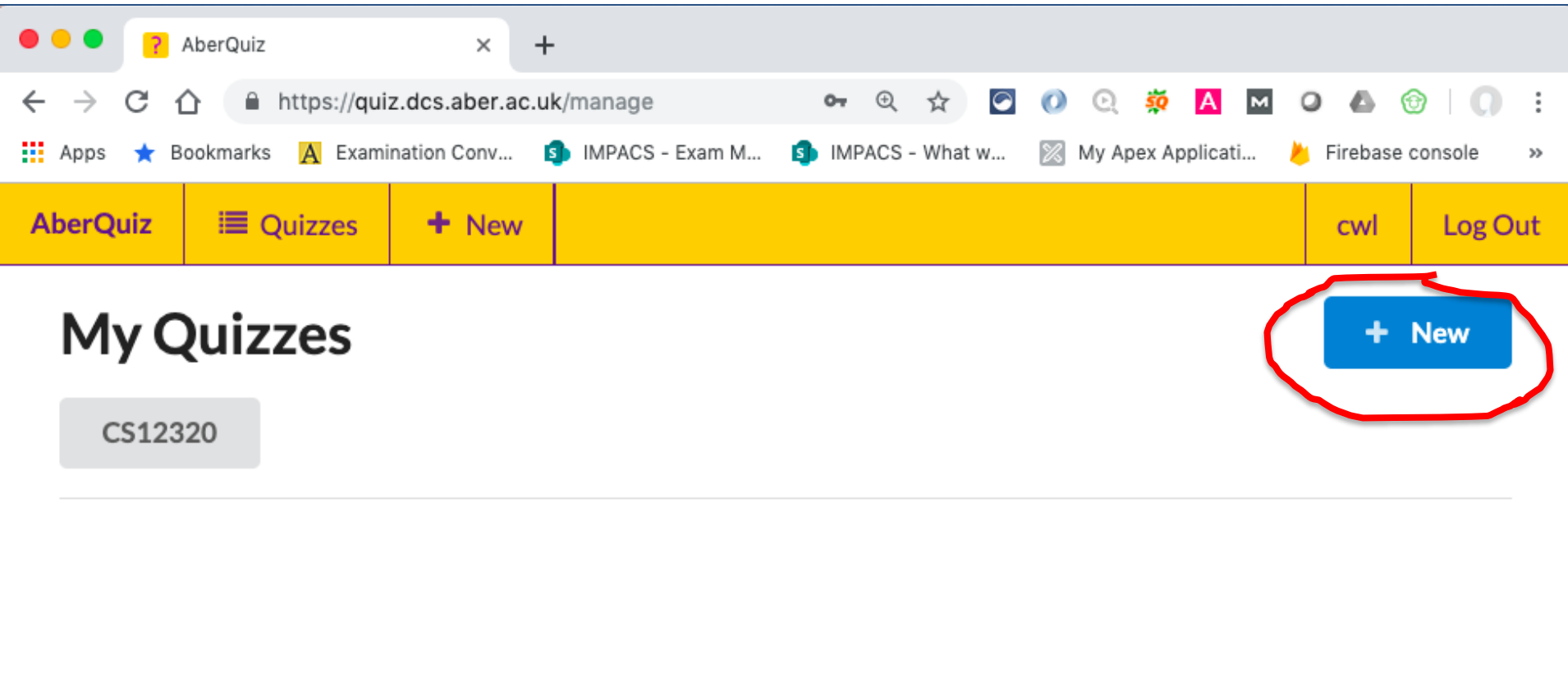
Username \*

Password \*

This is only open to all staff this week. Afterwards it will be FBPS only...



# Create a new quiz and folder



The screenshot shows a web browser window with the URL <https://quiz.dcs.aber.ac.uk/manage>. The page features a yellow navigation bar with the following elements from left to right: the text 'AberQuiz', a menu icon followed by 'Quizzes', a '+ New' button, a user identifier 'cwl', and a 'Log Out' button. Below the navigation bar, the main content area is titled 'My Quizzes' and contains a grey button labeled 'CS12320'. A blue button with a white plus sign and the text '+ New' is located in the top right corner of the main content area and is circled in red.

## Quiz Details

Name

Lovely day quiz

Folder

LTC2019

Presentation Slides

Choose file lovely-day-quiz.pdf

Save

This can be  
any format...

# Now edit the questions

## Quiz Details

Name

Lovely day quiz

Folder

LTC2019

Presentation Slides

You've already uploaded some presentation slides, but you can replace them by selecting a new file below before clicking save.

Choose file lovely-day-quiz.pdf

Save

Edit Questions

or

I'm Done

## Questions

Are you having a lovely day (true/false)?

Copy and pasting the text is the easiest

Don't forget to save the question

Question Type

True/False

Text

Are you having a lovely day (true/false)?

Save Question

**Heads Up!**

You have unsaved changes. Make sure you press Save before moving on.



1/2



I'm Done

## Questions

How often would you use this tool?

- A. Frequently
- B. Occasionally
- C. Rarely
- D. Never

## Question Type

Single Choice

## Text

How often would you use this tool?

## Choices

A. Frequently ×

B. Occasionally ×

C. Rarely ×

D. Never ×

Save Question



2/2



I'm Done

Again copy and paste is easiest. We are looking at possibility of deriving options from the PDF...

After saving, click I'm Done

# The LTC2019 folder shows our quiz

## My Quizzes

+ New

CS12320

LTC2019

### Lovely day quiz

presentation

This quiz has 2 question(s).

We can delete the quiz

We can run the quiz

We can edit the quiz

We can examine session history for the quiz



# Running the quiz

After clicking the Run button you should see the first slide



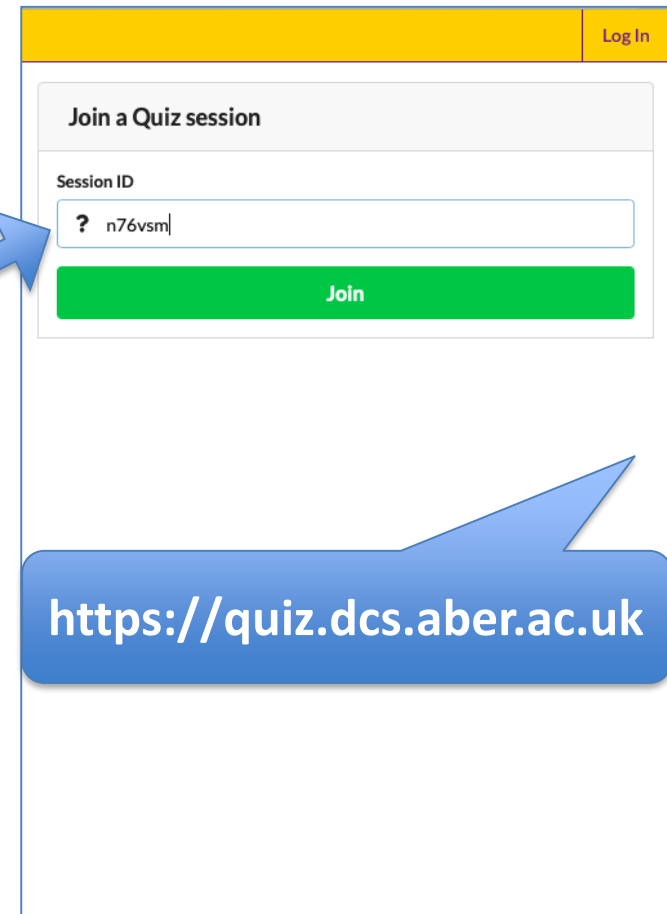
AberQuiz ☰ Quizzes cwl Log Out

Are you having a lovely day (true/false)?

← 1/2 →

N76VSM ? Show 👤 0

Open a participant browser, e.g. on your phone or another browser window



Log In

Join a Quiz session

Session ID

Join

<https://quiz.dcs.aber.ac.uk>


AberQuiz ☰ Quizzes cwl Log Out

**Are you having a lovely day (true/false)?**

Are you having a lovely day (true/false)? Answer True or False.

0%

Show Responses

← 1/2 → **N76VSM** ? Hide  1

Log In


Are you having a lovely day (true/false)?

Are you having a lovely day (true/false)?

True or False

0%

**N76VSM**

 1

And after clicking Show the presenter and participant screens should look like this



# You can suspend a session and come back to it or end it completely

How often would you use this tool?

- A. Frequently
- B. Occasionally
- C. Rarely
- D. Never

How often would you use this tool?

Select One

- A. Frequently
- B. Occasionally
- C. Rarely
- D. Never

Let's try suspending the session and then going back to it...

End the session now?

No, the session is not finished.

Yes, the session is finished.



2 / 2



End Session

N76VSM



Hide



1

100%

# Going back to the session

## My Quizzes

+ New

CS12320

LTC2019

### Lovely day quiz

presentation

This quiz has 2 question(s).



Click the Session History button...

## Session History

### ⚠ Active Session

Hey, we noticed that this quiz currently has a session in progress. If you want to see it on this page, you need to end that session.

Click [here](#) to go to the session so you can end it.

No history yet

We can now return to the session...

Then try and re-show some questions and notice that the participant browser continues to work...

Finally, end the session and notice the effect on the participant browser...

End the session now?

No, the session is not finished.

Yes, the session is finished.

# Session results

AberQuiz

☰ Quizzes

cwl

Log Out

## Session History

01/07/2019, 14:53:44

N76VSM



View the quiz results

If you click on the Session History button, this time you will see this

Delete the session history

Download the quiz results. This is very simple and displays a separate window containing the data in JSON format...

# Student survey feedback

28 responses, 7 5-star rated questions:

1. Joining an AberQuiz session was easy: 4.75
2. The interactive quiz buttons were easy to see and tap: 4.71
3. AberQuiz was reliable: 4.57
4. The slide content was easy to see on my browser: 4.25
5. I found that the quizzes helped me learn: 4.11
6. The results projected by the data projector were easy to read: 4.00
7. The quiz slide projected via the data projector was easy to read: 3.96

The mixing of slide content and questions sent to the participant made the projected content, at times, small and hard to read, especially code. We are looking into improving this...

# The free-text responses

Showing **16** responses

It was really fun! And surprisingly engaging  
4/5/2019 4:13 PM

[View respondent's answers](#)

[Add tags](#) ▼

:)  
4/5/2019 12:42 PM

[View respondent's answers](#)

[Add tags](#) ▼

Users should be able to see the results at the end of the quiz/be able to back track through them without the lecturer controlling it. Formatting of the slides could be adjusted because sometimes the images are tiny.  
4/5/2019 11:10 AM

[View respondent's answers](#)

[Add tags](#) ▼

Over all the quiz tool was very well implemented and definitely made my learning experience more interactive and help me concisely focus my studies.  
4/5/2019 10:47 AM

[View respondent's answers](#)

[Add tags](#) ▼

Showing **16** responses



Easy to use, and quite helpful for learning

4/5/2019 8:32 AM

[View respondent's answers](#)

[Add tags](#) ▼



Works totally fine on desktop but on mobile it could do with scaling to the screen better, I would have to zoom in to read and answer the questions every time

4/4/2019 9:18 PM

[View respondent's answers](#)

[Add tags](#) ▼



The swapping of the results was poor - confusing. if the answers start A,B,C,D. They need to be reported back as A,B,C,D.

4/4/2019 7:45 PM

[View respondent's answers](#)

[Add tags](#) ▼



I found it very useful, however sometimes the text for the questions was a bit small to read on the projector. But only when there was a lot of text. Also sometimes on mobile devices could be a bit hard to display and read. Thanks.

4/4/2019 7:32 PM

[View respondent's answers](#)

[Add tags](#) ▼

Showing **16** responses

Everything was easy to read although some results haven't been very clear to see when browser wasn't on full screen , same goes to projector. Sometimes font was just too small to read from a far , other then that i dont have any issues. Great work

4/4/2019 6:32 PM

[View respondent's answers](#)

[Add tags](#) ▼

quiet useful, would be great if we used it for other modules as well as java

4/4/2019 6:20 PM

[View respondent's answers](#)

[Add tags](#) ▼

Please fix the result screen. Sort it so the answers to the first question comes first and the answers to the las question comes last. The current random results are very confusing.

4/4/2019 6:00 PM

[View respondent's answers](#)

[Add tags](#) ▼

make the joining code a string of words and it bigger on the instructors screen

4/4/2019 5:36 PM

[View respondent's answers](#)

[Add tags](#) ▼



Easy to use

4/4/2019 5:32 PM

[View respondent's answers](#)

[Add tags](#) ▼

Increase the size of the quiz code: If the lecturer doesn't read out the code to enter the quiz, I find it rather hard to see it on the projector (especially when the quiz has already started). I sit pretty close to the front of the lecture halls, so I imagine it's much worse for people sitting further back

4/4/2019 4:50 PM

[View respondent's answers](#)

[Add tags](#) ▼

The tool was very good. It was easy to use and to join

4/4/2019 4:32 PM

[View respondent's answers](#)

[Add tags](#) ▼

I think its a good idea

4/4/2019 4:31 PM

[View respondent's answers](#)

[Add tags](#) ▼

Time allowing:

Try creating your own quiz