# Activity System for WebCMS3

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Costa Paraskevopoulos
c.paraskevopoulos@unsw.edu.au

# WebCMS3 - The Old Quiz Module

- Only multiple choice questions
- Minimal statistics for staff
- Virtually no feedback for students
- Some interfaces were inconsistent
- Too many bugs
- Missing many desirable features

# WebCMS3 - Improvements to Quizzes

- Only multiple choice questions
  - Now supports five question types
- Minimal statistics for staff
  - Many enhancements made to the statistics page
- Virtually no feedback for students
  - Automatic solutions
  - Mark breakdowns
  - Custom question explanations
- Some interfaces were inconsistent
  - Every page design has been improved in some form, maximizing usability
- Too many bugs
  - All known bugs fixed
- Missing many desirable features
  - Extensions, late penalties, importing activities, importing questions, viewing/downloading submissions
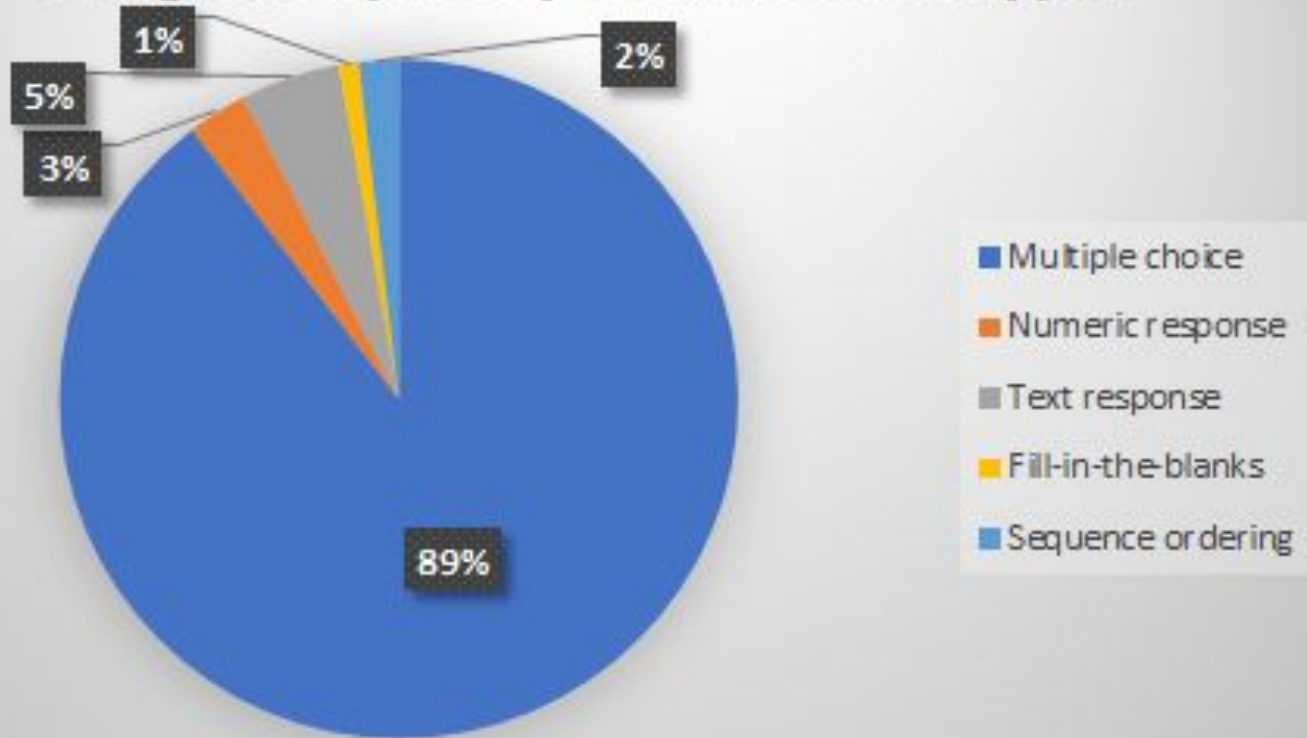
# WebCMS3 - The New Quiz Module

- Live demo
  - https://webcms3x.cse.unsw.edu.au/DEMO1111/19T3/

# WebCMS3 - Usage Statistics

| | |
|---|---|
| Courses using polls | 6 |
| Total number of polls | 18 |
| Number of poll responses | 2807 |
| Courses using quizzes | 11 |
| Total number of quizzes | 38 |
| Number of quiz responses | 7349 |
| Quizzes with a description field | 6 |
| Quizzes enabling late penalties | 2 |
| Number of late quiz submissions | 4 |
| Number of student extensions granted | 8 |

# WebCMS3 - Usage Statistics



## Usage Frequency of Question Types

- Multiple choice
- Numeric response
- Text response
- Fill-in-the-blanks
- Sequence ordering

89% — 5% — 3% — 1% — 2%

# WebCMS3 - Real Quizzes Run in Production

- Used by 11 different courses in 19T3
- Some examples:
  - https://webcms3.cse.unsw.edu.au/COMP9020/19T3/activities/quizzes/1409
  - https://webcms3.cse.unsw.edu.au/COMP9020/19T3/activities/quizzes/1427
  - https://webcms3.cse.unsw.edu.au/COMP9020/19T3/activities/quizzes/1453
  - https://webcms3.cse.unsw.edu.au/COMP3311/19T3/activities/quizzes/1446
  - https://webcms3.cse.unsw.edu.au/COMP3311/19T3/activities/quizzes/1464
  - https://webcms3.cse.unsw.edu.au/COMP6445/19T3/activities/quizzes/1435

# WebCMS3 - Performance Issues

- Experienced by some staff within the first five weeks
- Fast response to implement patches
- Main issues raised:
  - Loading quiz statistics for many student responses
  - Editing large quizzes
  - Only tested early in development
  - Now tested with test a quiz containing 40 questions and 1000 responses
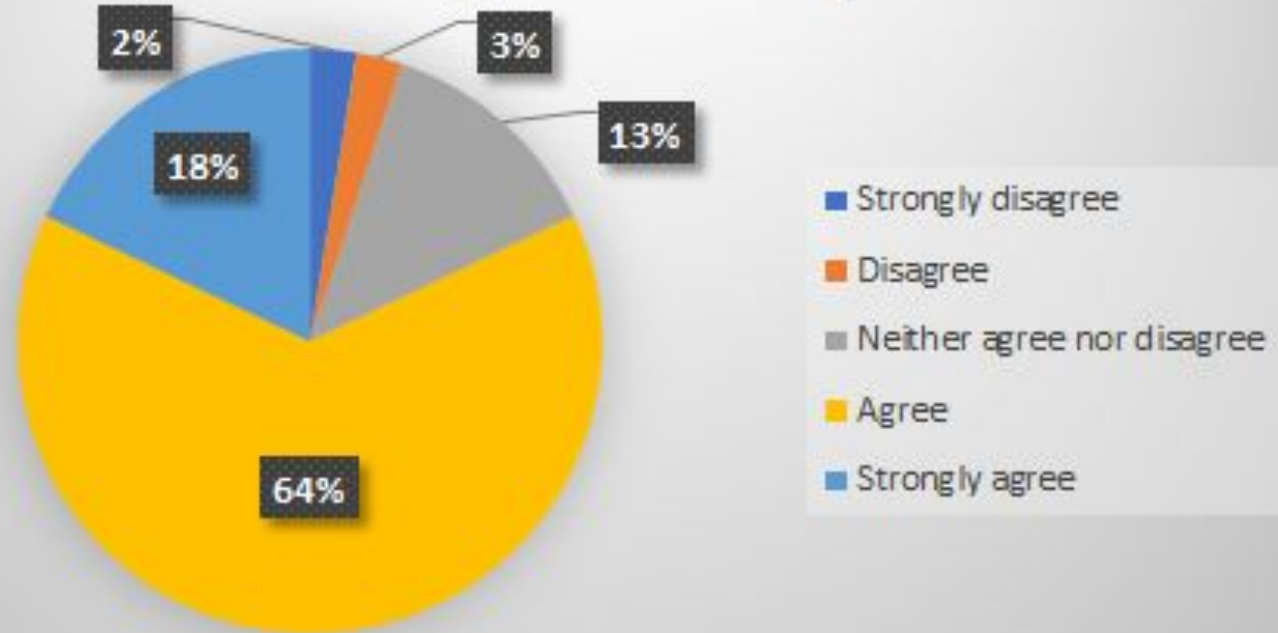
# WebCMS3 - Usability Issues

- Structured scenarios carried out during Week 6 and 7
  - Five members of CSE staff
  - Two non-CSE staff (had not used the system previously)
- Scenarios:
  - Creating a new quiz
    - Adding questions of various types
  - Viewing quiz results
  - Editing an existing quiz
    - Tweaking options and questions
    - Importing questions
  - Importing activities
  - Sitting a quiz

# WebCMS3 - Survey Results

- Staff survey
  - Few responses; difficult to draw useful insights
- Student survey
  - Sent to COMP3311 and COMP9020 students
  - Many more responses
- Conclusions:
  - More feedback
    - Depends on lecturers adding custom explanations
  - Multiple resubmissions
    - Currently up to the lecturer

# WebCMS3 - Survey Results, Extract



Do you feel that the range of question types was helpful?

- 2%
- 3%
- 13%
- 18%
- 64%

Legend:
- Strongly disagree
- Disagree
- Neither agree nor disagree
- Agree
- Strongly agree

# WebCMS3 - The Future

- Support for more question types
- Question and/or response randomization
- Uploading from a file
- Finer control over visibility and deadlines
  - Tutors
  - Individual classes

# Thank you

(and enjoy using the new system)

## Questions?