ENCOURAGING CELLPHONE USE IN THE CLASSROOM

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Relevant QR Codes

**Website about this presentation
(PDF of PowerPoint, Link to video)**

My E-mail Address

Outline

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Introduction [前置き]

- Goals [目的]:
  - Simplified Grading [簡易化した格付け]
    - 200 students in 7 classes
  - Data Collection [データを集めること]
    - Continued research

Background 1 [背景]

- The negative view towards cellphones in the classroom
  - Generally viewed negatively: Interruptions, Distractions, Tools for Cheating
- The teaching load: 7 courses, ranging in size from 14 to 50.

Versus:

- The **flipped classroom**
- **Khan academy**-style use of technology

Background 2 [背景]

- No computers in the classrooms that I use
- Students who are more used to using technology via their cellphones than PCs.

Possibilities:

- Moodle? → Limited Cellphone support
- QR codes → Definite Cellphone support

Initial Methodology [最初の方法]

- Google Forms
  - Allows for:
    - Text Questions
    - Multiple Choice Questions
    - Dropdown Questions
    - Multiple Answer Questions
  - Validation on Text [only e-mail addresses, only numbers, etc.]
- QR Codes
  - Enables access from cellphones without typing long URLs

Benefits of Initial Methodology [最初の方法の利益]

- Approximately 85% of quizzes were successful entered digitally.

- Enabled batch grading and commenting on similar answers

- Still have the data for later use

Pitfalls of Initial Methodology[最初の方法の弱点]

- Some students do not have cellphones or want to use them for quizzes
- Some cellphones do not work well with Google Forms [especially ガラパゴス携帯]
- Loss of data if the student navigates away before submitting
- Students can accidentally double submit forms
- Instructor can make mistakes in validation rules

Implemented Improvements [実施した改善]

- Google Spreadsheet → MariaDB Tool for Grading
- Student QR Codes rather than Quiz QR codes
- Access to course documents through Student QR Code
- Quiz Open and Close Times
- Blind Grading through PHP Interface
- Online Access to Feedback

Planned Improvements [計画を立ている改善]

- Replace Google Forms with Proprietary System via PHP:
  - Eliminate Data Loss on Navigation
  - Add New Types [Picture]
  - Eliminate Import Step
  - Increase Compatibility
  - Simplify Producing Print Version
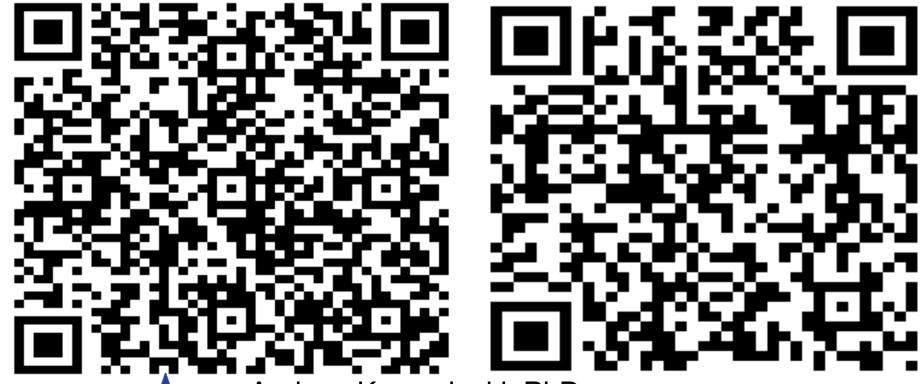
Conclusion [結びつき]

- Enabled the recording of 830 student quiz instances (1 instance = 1 student's quiz)

- Collected intake surveys from 195 students using the online system [includes approximately 20 manually entered]

- Collected class evaluations from 145 students using online system [Does not include manually entered]

Comments, Questions, Interest?

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