

Abstract

Ubiquitous Presenter (up.ucsd.edu) evolved from the University of Washington's Classroom Presenter. Instructors use Tablet PC ink to annotate pre-prepared slides and students create submissions for in-class activities via a browser-based interface.

i>Clickers are a popular classroom response system adopted by thousands of faculty and used by millions of students.

To improve active learning, i>Clickers will be seamlessly integrated with Ubiquitous Presenter.



i>Clickers are supported alongside a browser-based interface for polling. The polls are persistent and can be used by students after lecture to reflect upon their understanding.

Design Goals

Simplicity of UI and code
Modularity

Program Flow

The instructor enables student submissions while lecturing.



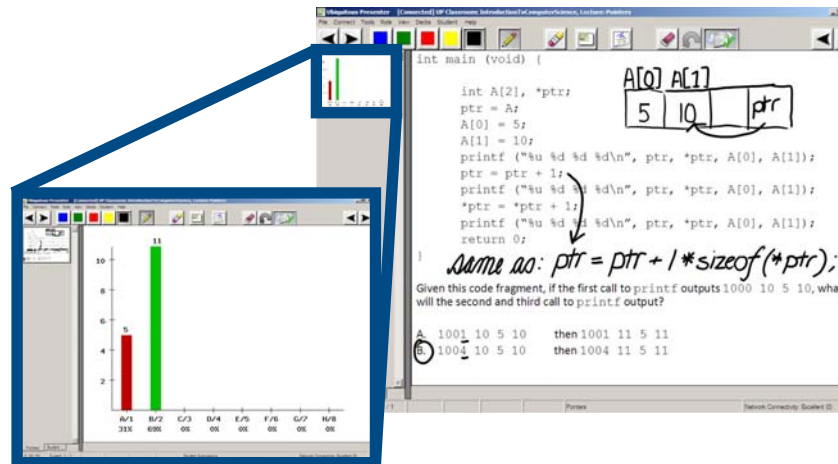
Student votes are received and processed.



The client sends an HTTP GET request to the server, keeping a record of the student votes.



The updated poll can be seen in the client.



Procedure

Became familiar with the existing codebase
Wrote scripts to automate or assist in common tasks
Acquired the i>Clicker source code
Began the process of upgrading the i>Clicker source code from Visual Basic 6 to Visual Basic 2008 and separating implementation logic from GUI logic
Began the process of porting the voting functionality of i>Clickers to Ubiquitous Presenter

Results

Seamless integration with Ubiquitous Presenter makes for ease of use – all the features of both systems can be accessed through one interface.

Polls are persistent and viewable after lecture through Ubiquitous Presenter's browser-based interface, allowing students to:

- assess their understanding relative to the rest of the class by comparing their answers to the most popular choice and the correct choice
- see potential problems in how they are approaching problems
- see common mistakes and misconceptions

Future Work

Future work will involve continuing to upgrade the i>Clicker source code from Visual Basic 6 to Visual Basic 2008 and continuing to integrate i>Clicker features into Ubiquitous Presenter.

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