

PPT Control

This distribution file contains the source code and executable for a program that allows you to control a power point presentation using your computer's webcam and a set of markers. When the program is running and a marker is visible to the camera it will:

- marker 202: send a "Page Down" keystroke to the application that has focus.
- marker 502: send a "Page Up" keystroke to the application that has focus.
- marker 201: terminate the control program.

This is a toy example showing how a tracking device can be used as part of a computer human interface. The code is based on the the functionality provided by the Image-Guided Surgery Toolkit's (IGSTK) tracking framework.

To enable your webcam to function as a tracking device we require a calibration file (see `bin/CameraCalibration.yml`). You can try to run the application with this calibration file, it may just work. If you want to do the right thing, you will calibrate your camera on your own. Start by disabling auto-focus, and then use the camera calibration program (see the `README_CameraCalibration.html` file for detailed instructions).

The markers used to drive the program are in the `markers.pdf` file. Print it and make sure that the edge sizes are 50mm (printer option should be set to "actual size") cut them out and attach to a "rigid" planar surface. A standard index card is sufficiently rigid for our purposes.

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