



Kinect PPT/PDF Control

Brief guide to use

Niccolò Fabbri





Goal

- This program aims to build a gesture recognition system that uses natural gestures to control a *PowerPoint* or *PDF* presentation.
- The primary goal of this system is to free the user from restraints and automatically react to the naturally gestures throughout the presentation.









User Interface

INSTRUCTION


1) Check your application type

2) Set correct elevation angle


 14 

3) Check to see gestures




4) Minimize/Hide App

5) Ready to use!



Next Slide

 UNIVERSITÀ
DEGLI STUDI
FIRENZE
Scuola di
Ingegneria



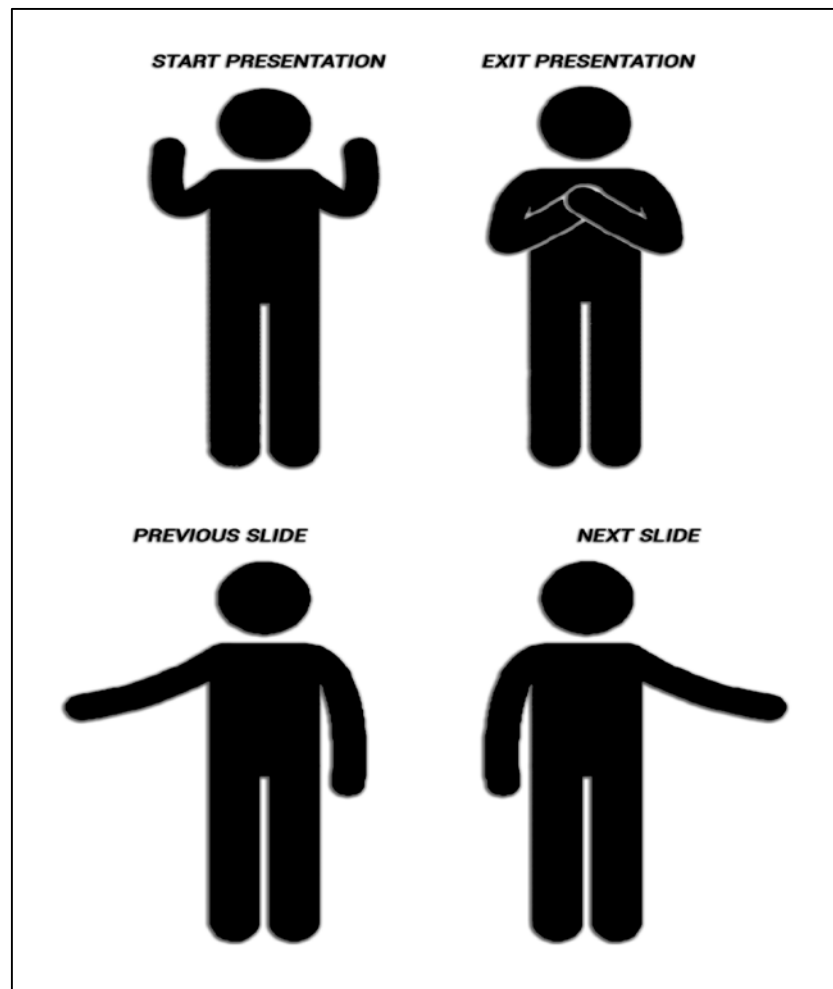
Main Features

- **Application Type:** Through these buttons you can change the program to control. The choice is between:
 - PowerPoint (set default)
 - Generic PDF Reader
- **Elevation Angle:** Through plus or minus buttons, you can change the elevation angle of device.
 - This setting is more important if you want to present by sitting.
- **Gesture Button:** Through this button you can see the motion gestures.
- **Bounding Box:** Through this text box you can see the recognized gesture



Main Gestures

- **Start Presentation:** Put your hands in line with head.
- **Exit Presentation:** Cross your hands.
- **Previous Slide:** Move your left hand from body to away.
- **Next Slide:** Move your right hand from body to away.





Usage

1. Point the Kinect device at you and stand at least **1 meter away**.
2. You can see yourself in the application window and the **three circles** will track your **head** and **hands**.
3. Move, as described in slide 5, your arms to **activate the gesture**.
 - These gestures will send an arrow or control key to the foreground application.
4. Run your **PowerPoint** or **PDF presentation** so is the foreground application.
 - The **ellipses** grow and **change color** when your hand exceeds the thresholds. The **gestures** will only activate once as your hand exceeds the threshold, and only one of the gestures can be active at once.
 - You must bring your hand back closer to your body to activate the gesture a second time.

