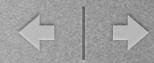


ABM with I-CubeX

Automated Behaviour Measurement with I-CubeX sensors, interfaces and software Axel Mulder Infusion Systems Ltd.

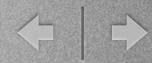


I-CubeX

- Real-Time Media Control development tools
- Sensors, Interfaces, Software and Support
- Since 1995 used world-wide
- R&D of music, exhibits, games, biomedicine
- www.lCubeX.com I-CUBEX

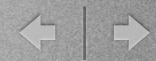






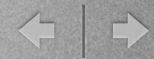
I-CubeX





Procedure

- Design: define behaviour parameters
- Setup: instrument space, person(s)
- Observe: capture sensor data
- Process: annotate sensor data
- Analyze: calculate statistics
- Publish!



Equipment

- Sensors: cameras, biosensors, eye-tracker,
 GPS, switches, ..
- Software: Noldus Observer, TechSmith Morae, ...

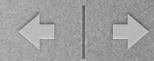
• .. use/add • I-CUBEX!





New Procedure

- Design: define behaviour parameters
- Setup: instrument space, person(s)
- Observe: capture sensor data
- Process: annotate sensor data
- Analyze: calculate stats
- Publish!

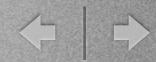


Demo

Consumer - Product Interaction Behaviours:

- Walk past/back
- Approach/Retreat
- Reach/Retract
- Pickup/Release

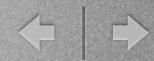




Equipment

- Sensors: MoveAlong, ReachClose, Touch
- Interface: USB-microDig
- Software: I-CubeX Editor, Keycode Mapper
- Software: Noldus Observer

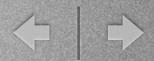




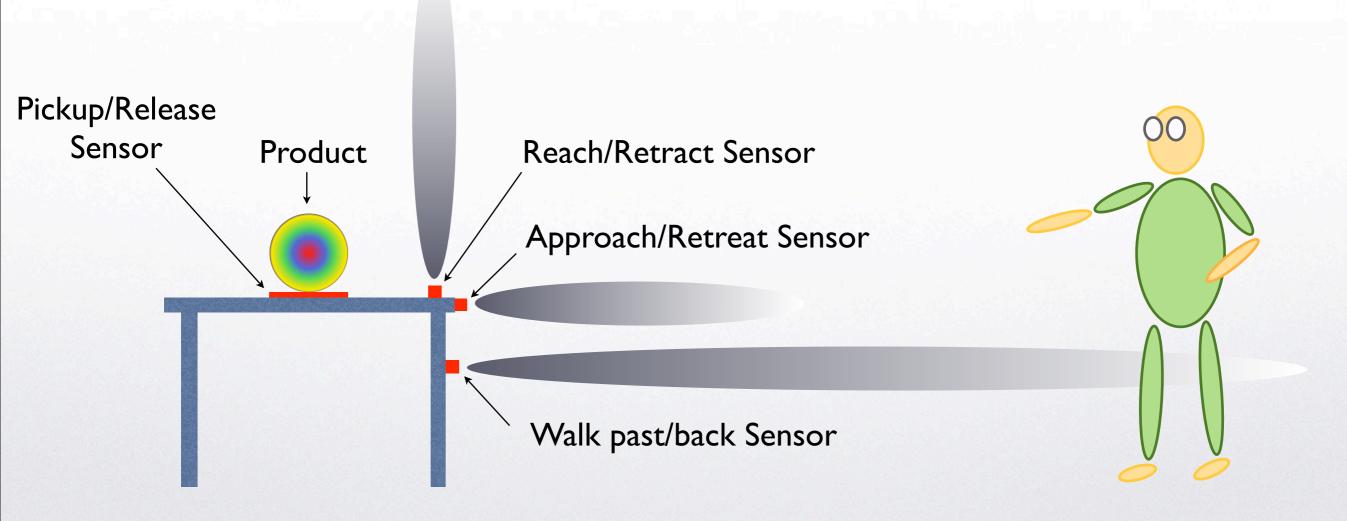
Capture

- Walk past/back: MoveAlong
- Approach/Retreat: ReachClose
- Reach/Retract: ReachClose
- Pickup/Release: Touch





Overview





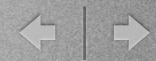


Why I-CubeX?

- Reduced data processing through automated behaviour coding
- Reduced data ambiguity through behaviour specific capturing

Caution: design carefully to avoid false triggers





Why I-CubeX?

- Availability of high-resolution data
- Availability of real-time multi-modal feedback
- Lots of sensors, ie. input modalities
- Easy to connect & setup





Thanks!

Feedback, Questions?

- Look up www.ICubeX.com/behaviour
- Contact me at Axel@ICubeX.com