

CSE 510: Advanced Topics in HCI

Design Tools

James Fogarty
Daniel Epstein

Tuesday/Thursday
10:30 to 12:00
CSE 403



University of Washington

ABC News and IDEO's Deep Dive (1999)



ABC News and IDEO's Deep Dive

Things to see in this video:

brainstorming

inquiry

sketching

critique

Why build a shopping
cart with no bottom?

A highly iterative design process
with a variety of intermediate artifacts

ABC News and IDEO's Deep Dive (1999)



Sketching in Design (2007)

“Design is Choice”

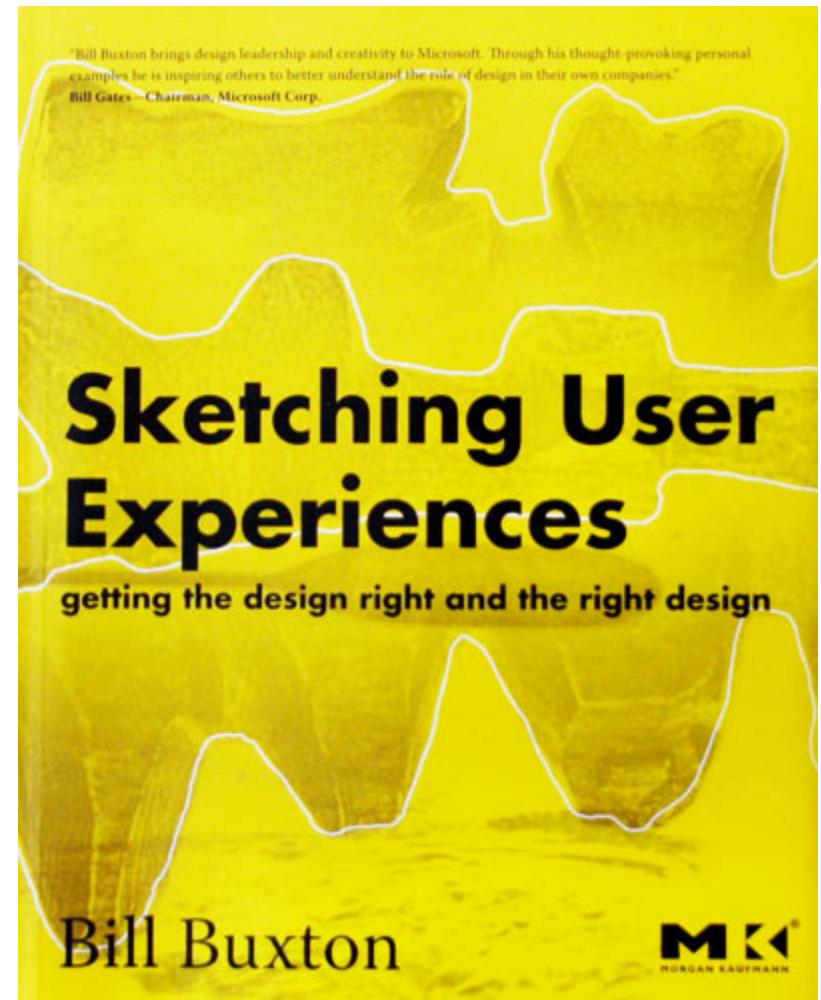
“the creativity that you bring to enumerating meaningfully distinct options from which to choose”



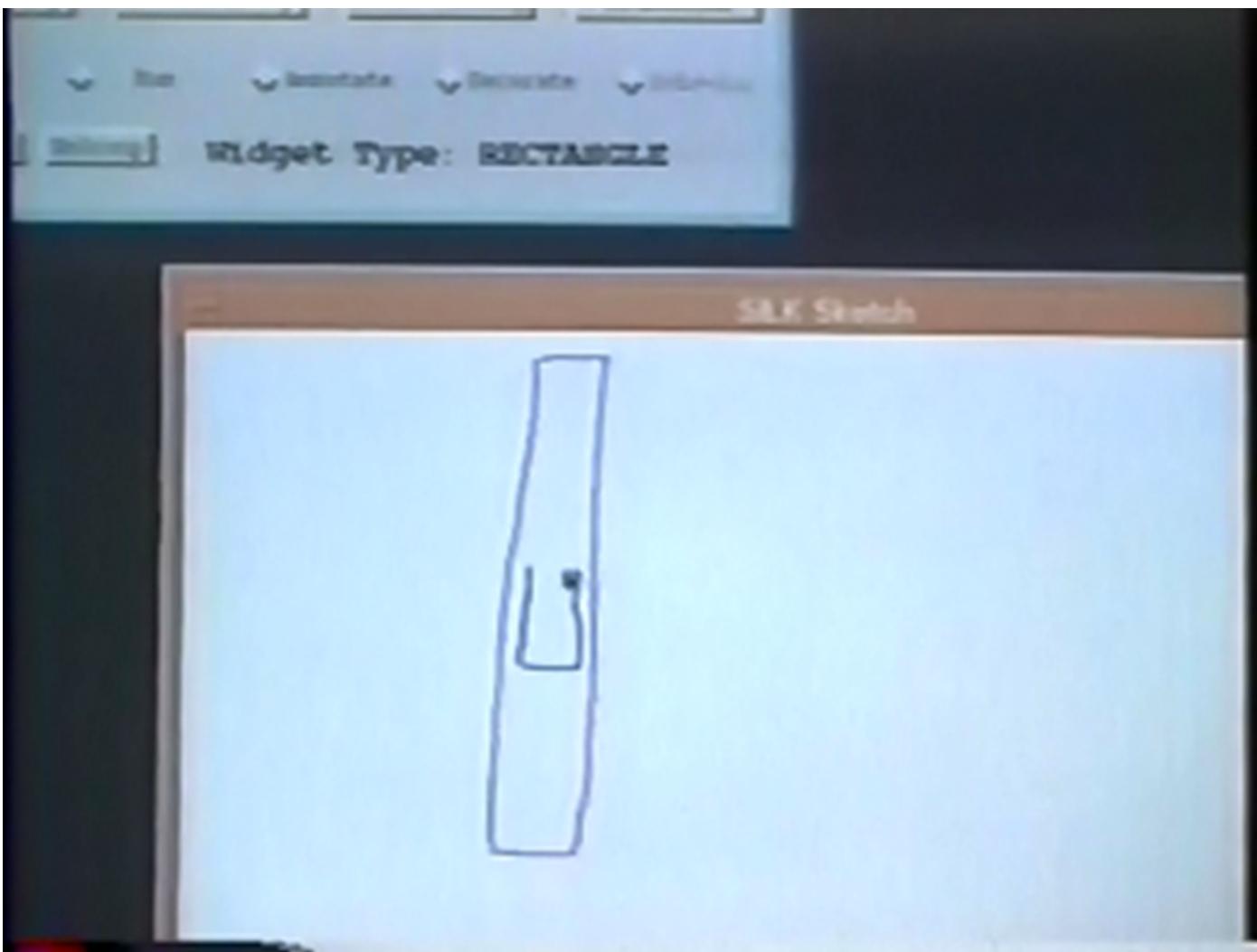
Sketching in Design (2007)

“Design is Choice”

“the creativity that you bring to defining the criteria, or heuristics, according to which you make your choices”

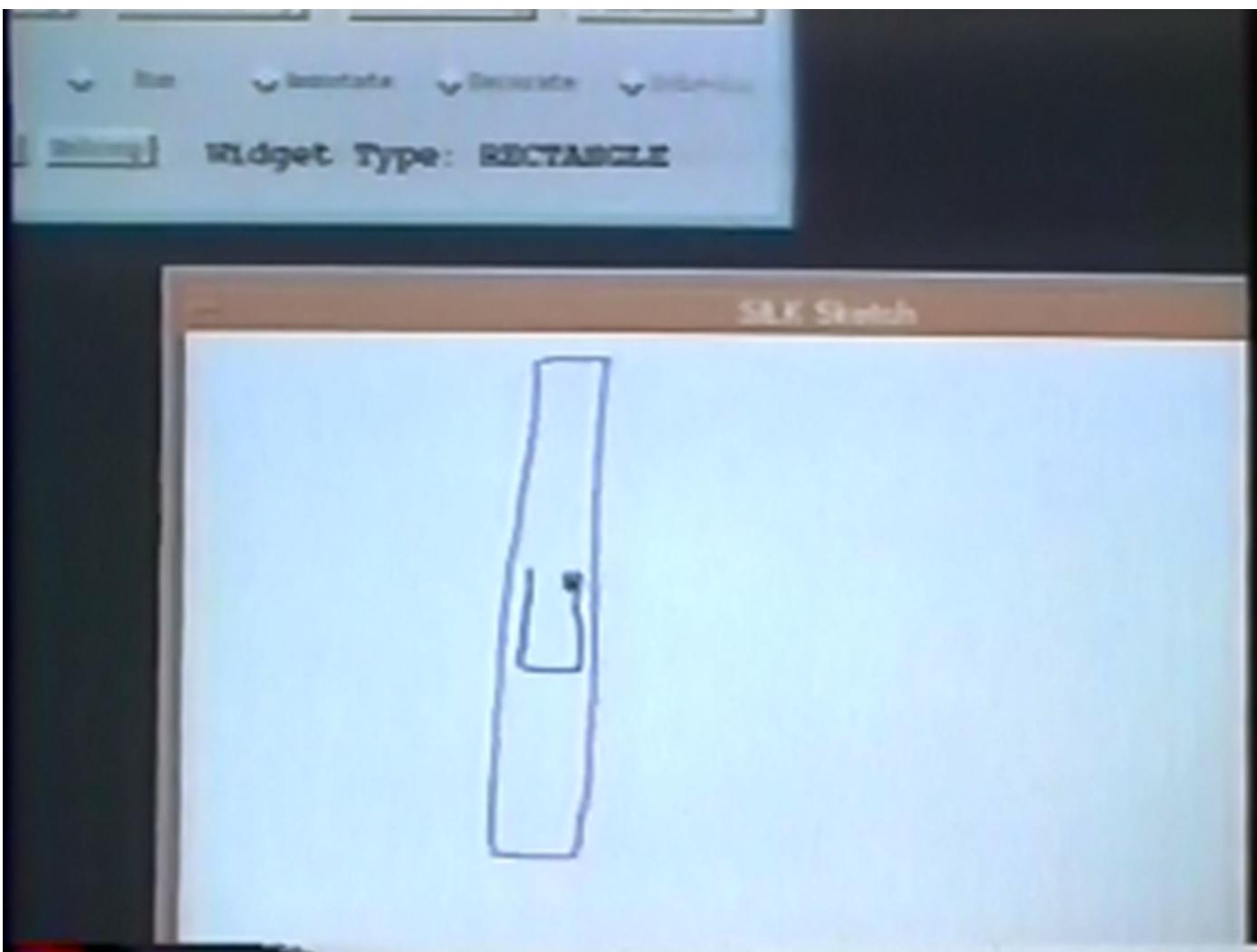


SILK (1996)

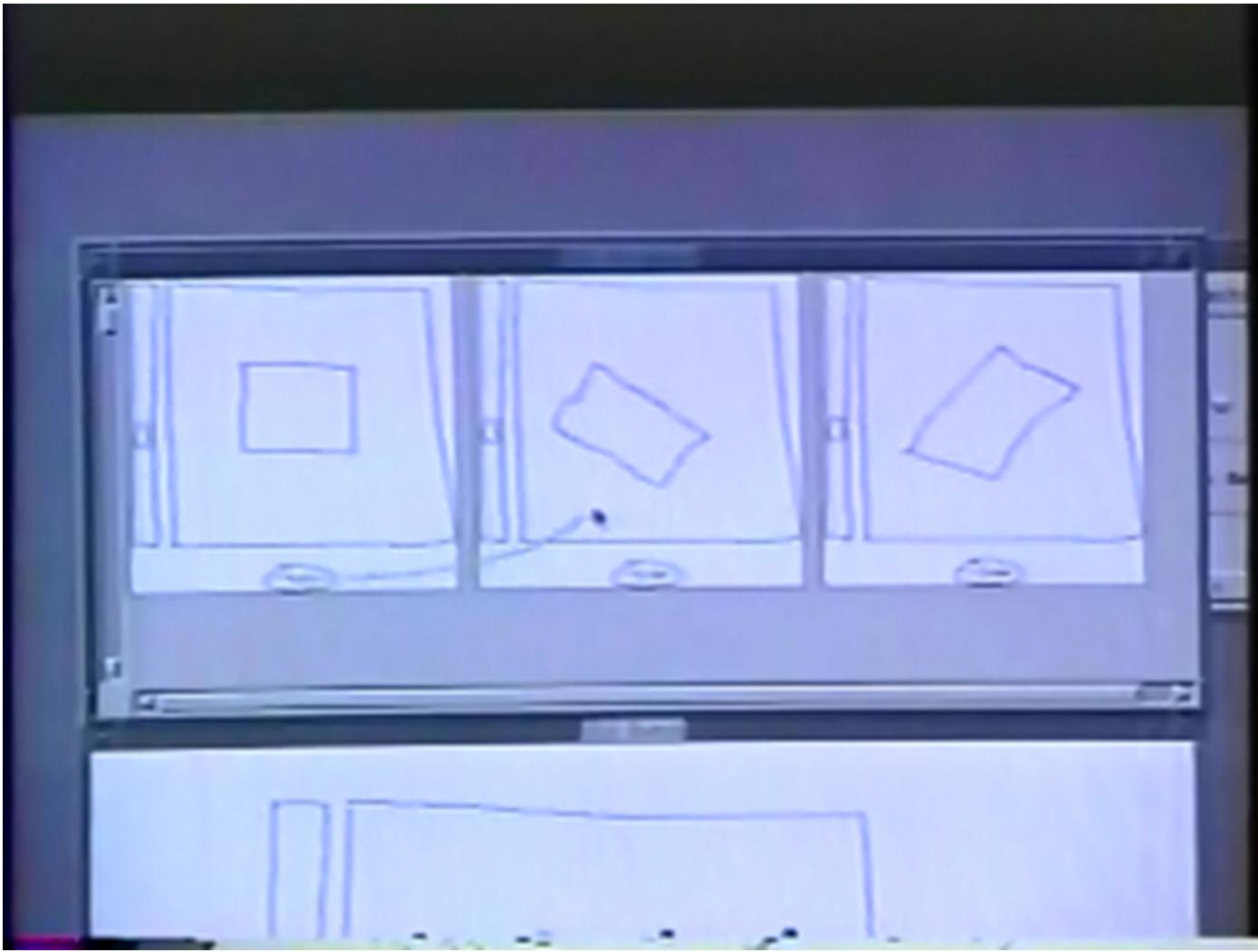


http://courses.cs.washington.edu/courses/cse510/videos/designtools/silk_chi1996.mp4

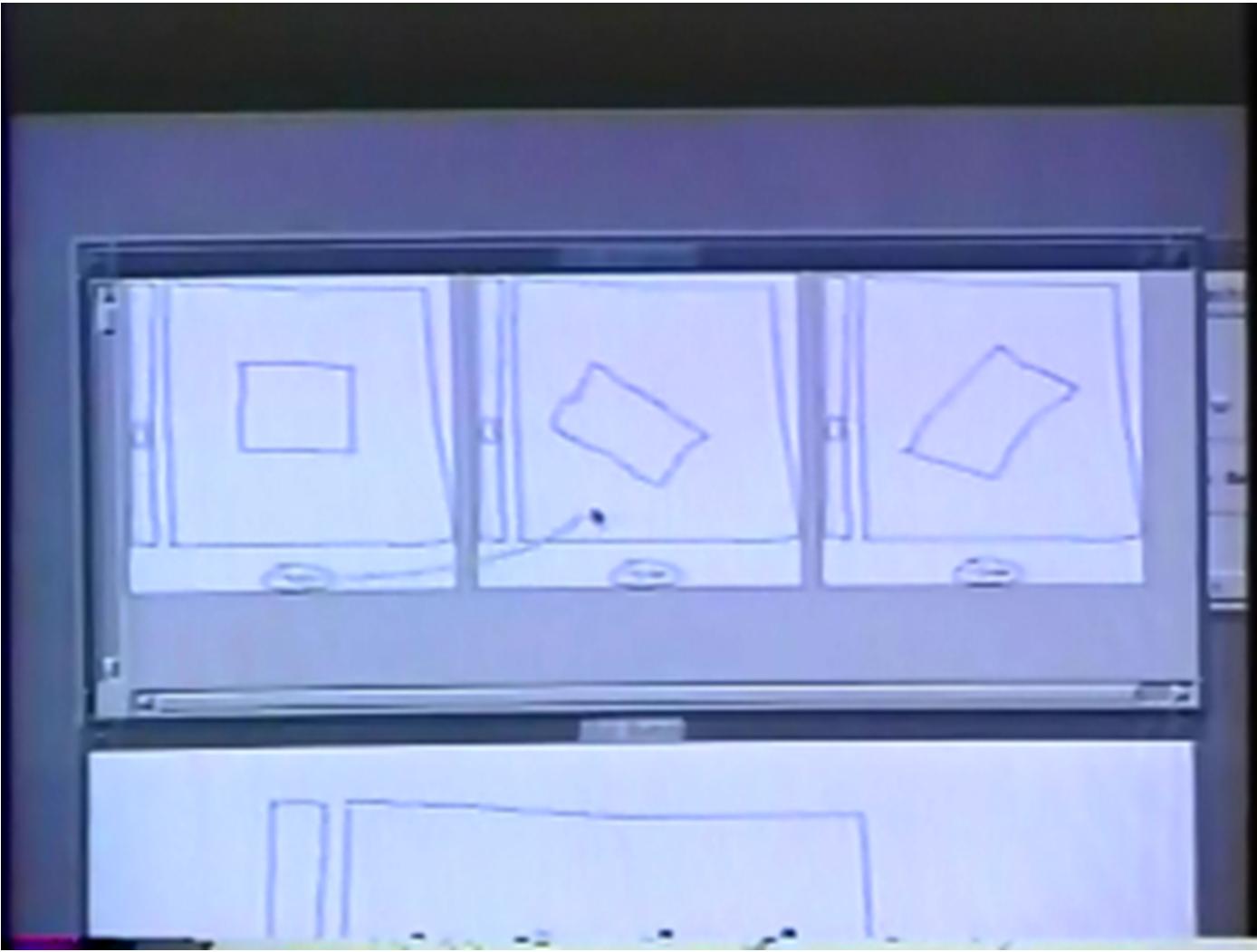
SILK (1996)



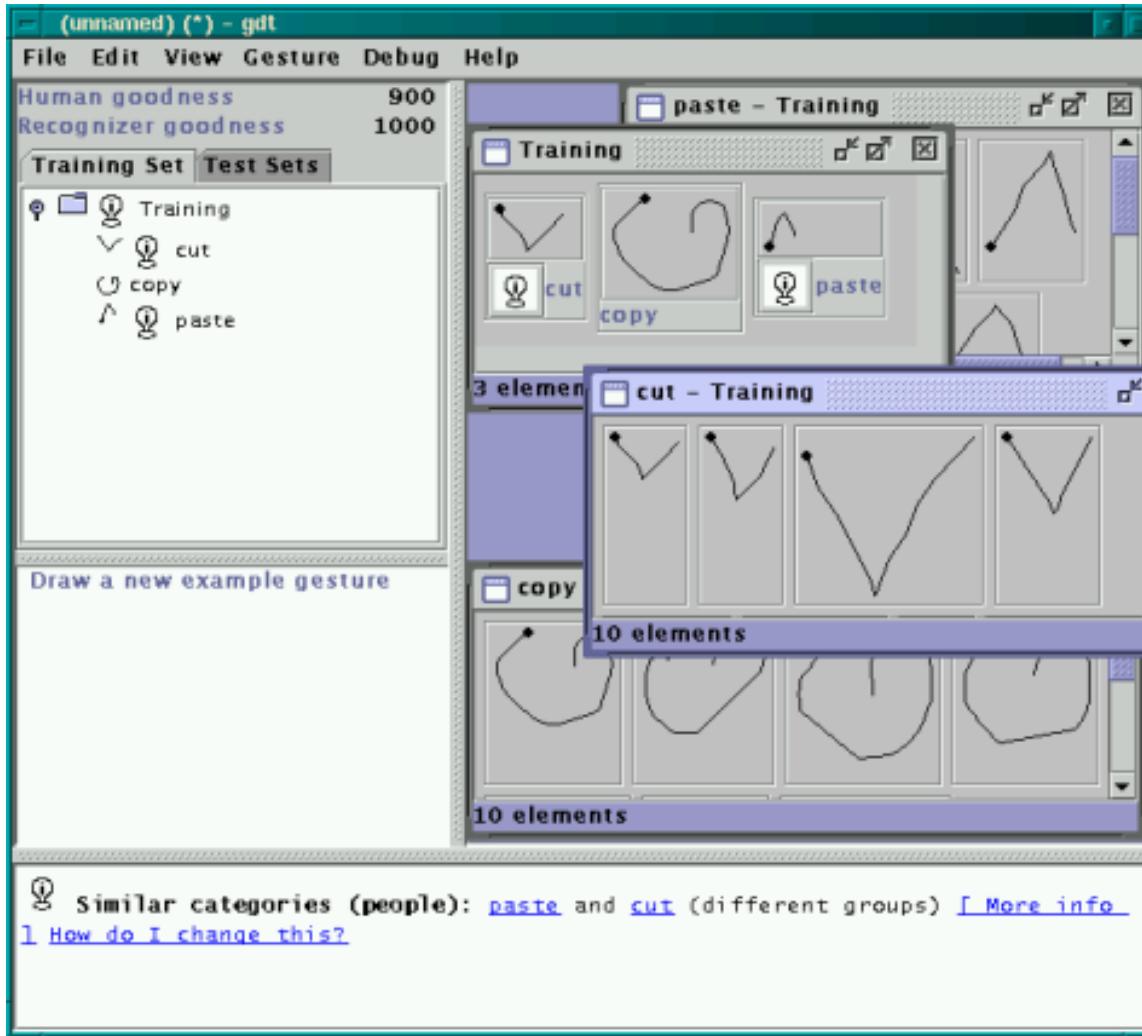
SILK (1996)



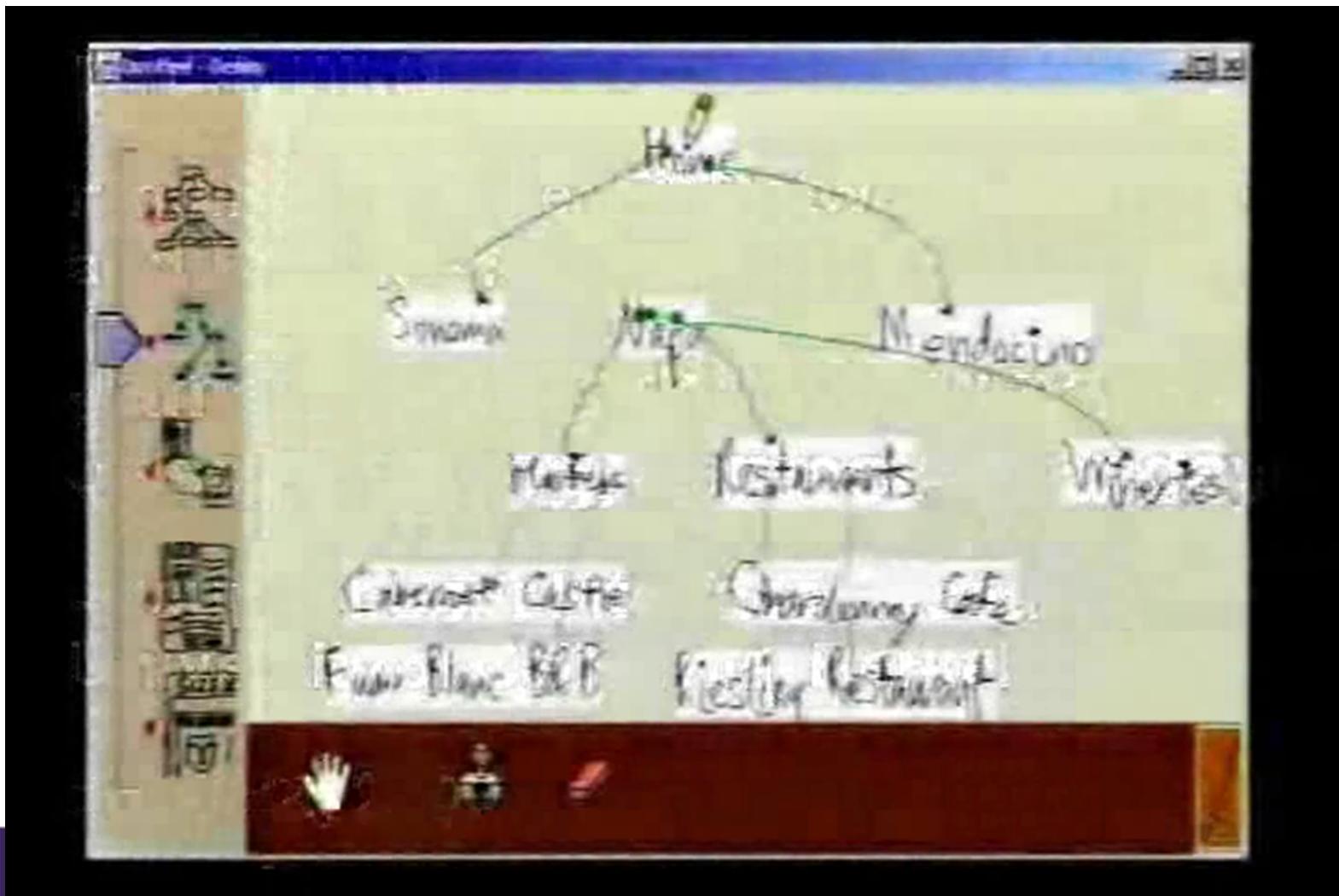
SILK (1996)



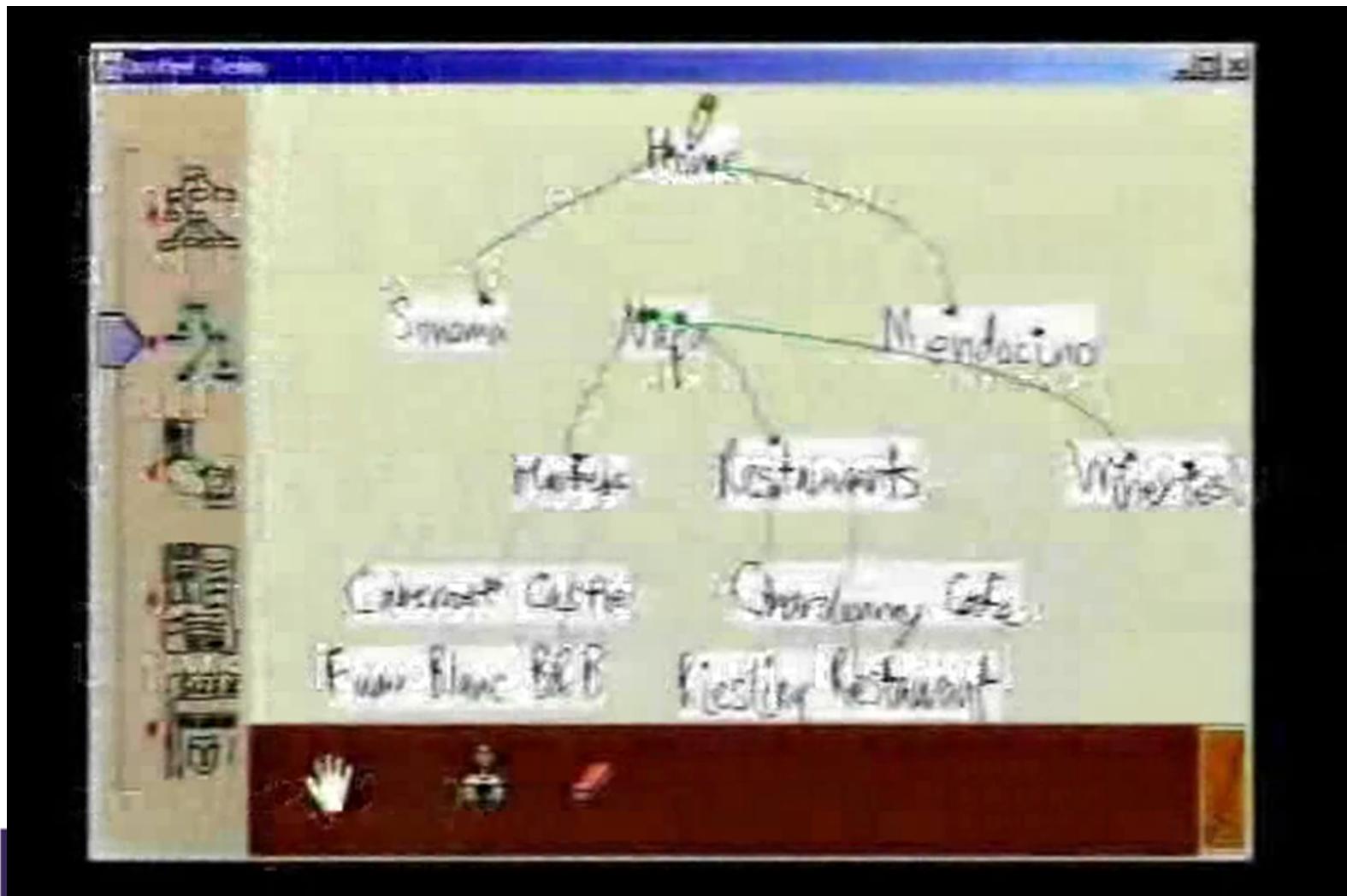
QUILL (2000)



DENIM (2000)

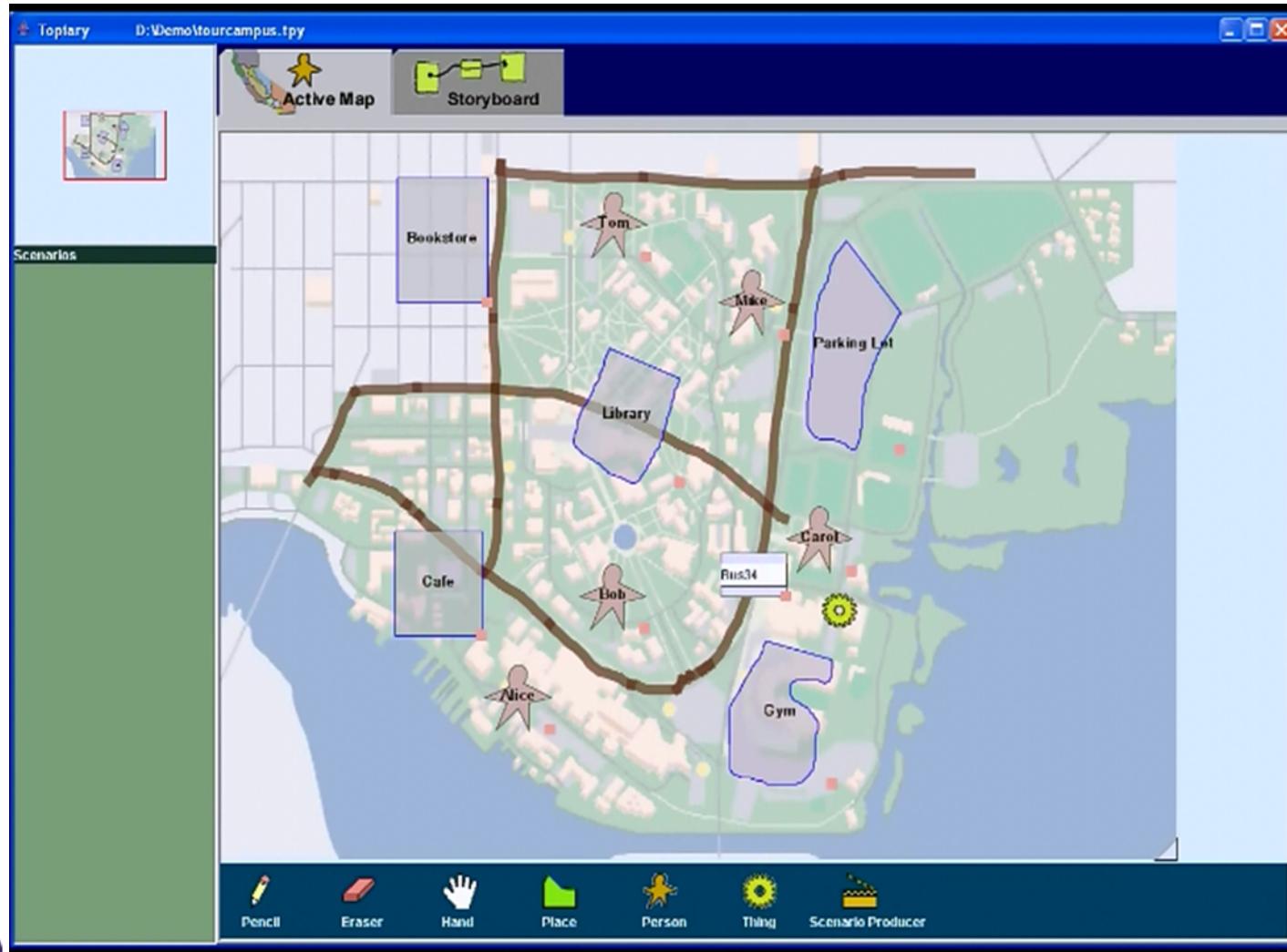


DENIM (2000)



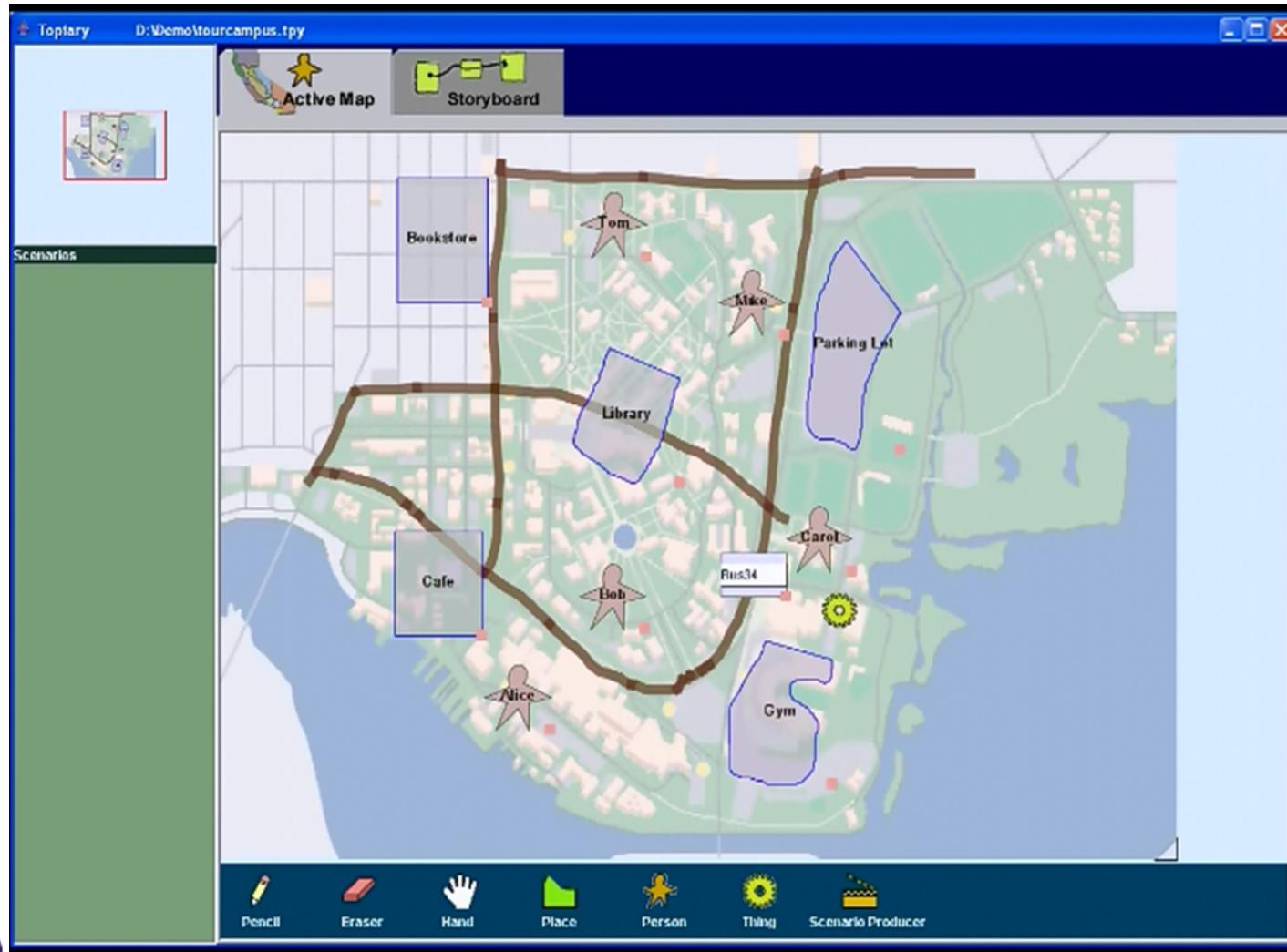
Early Stage, Multiple Levels of Details, Sketching, Pen Interaction

Topiary (2004)



http://courses.cs.washington.edu/courses/cse510/videos/designtools/topiary_uist2004.mp4

Topiary (2004)



Activity Designer (2008)

ActivityDesigner

Activity-Based Prototyping of Ubicomp Applications

Yang Li & James Landay

Computer Science & Engineering
University of Washington

Intel Research Seattle

January 2008



Designer's Outpost (2001)



Designer's Outpost (2001)

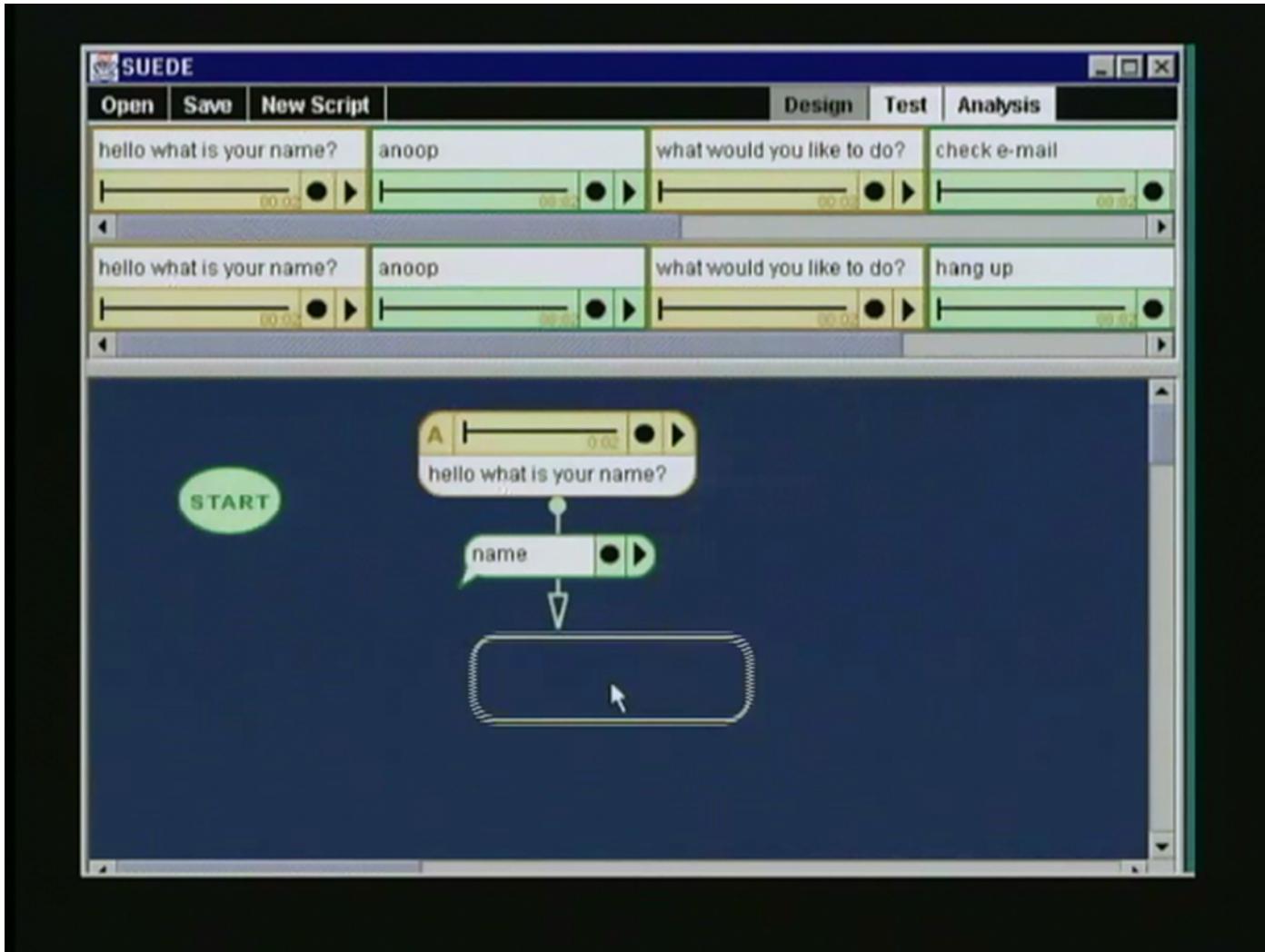


FrameWire (2010)

FrameWire

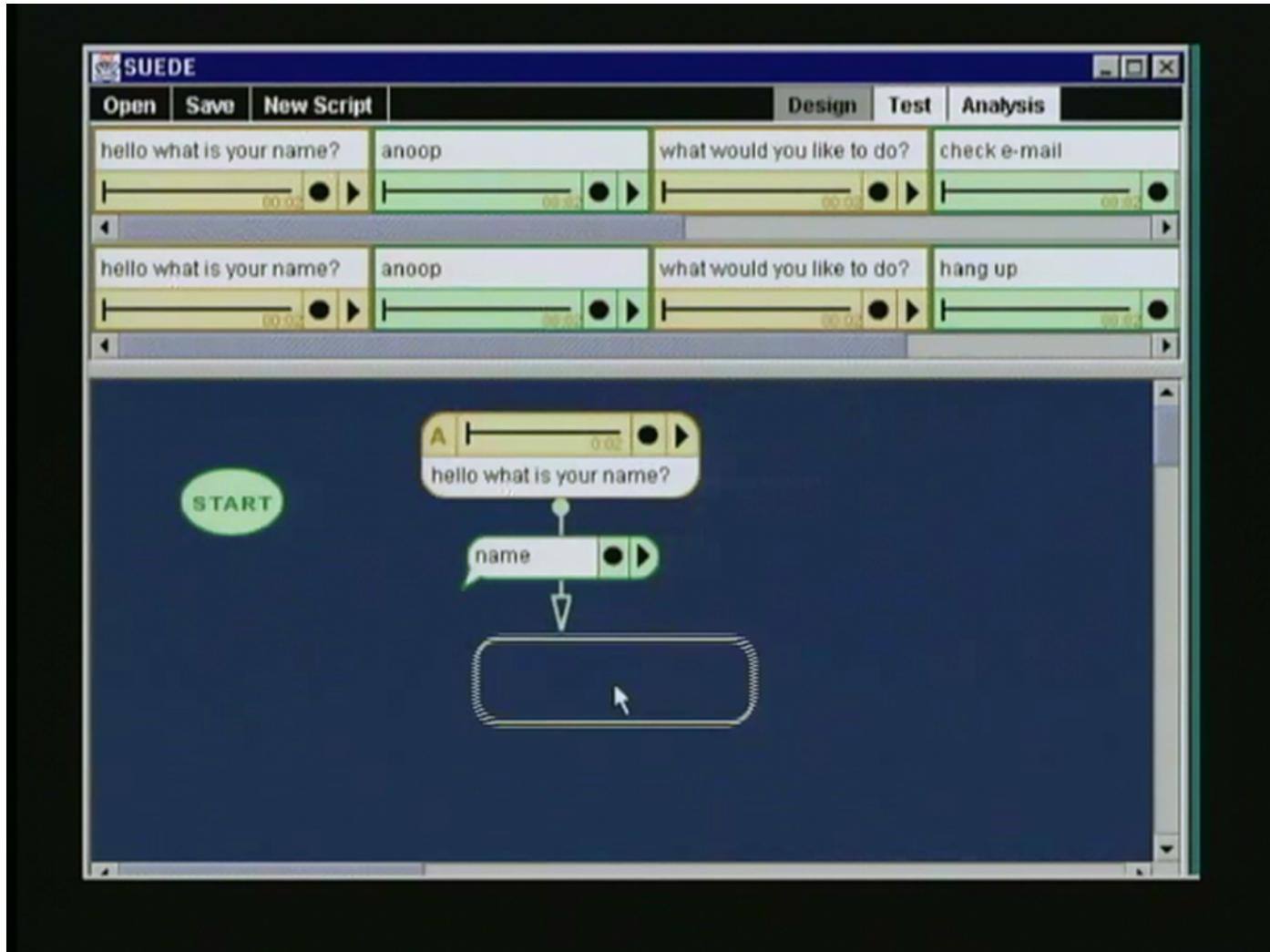
- analyzes paper prototype test video
- extracts interaction logic
- generates functional prototypes

SUEDE (2000)

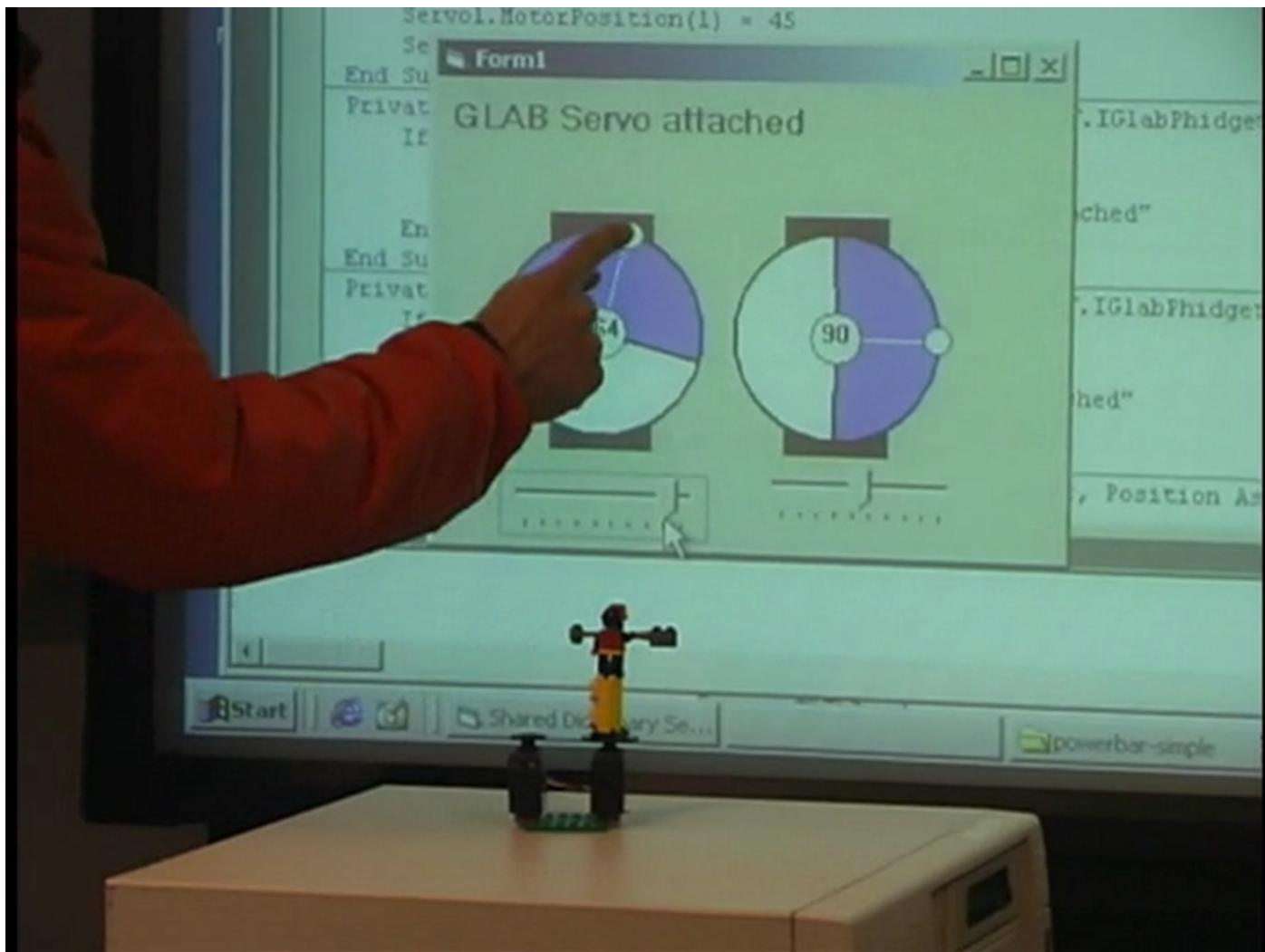


http://courses.cs.washington.edu/courses/cse510/videos/design-tools/suede_uist2000.mp4

SUEDE (2000)

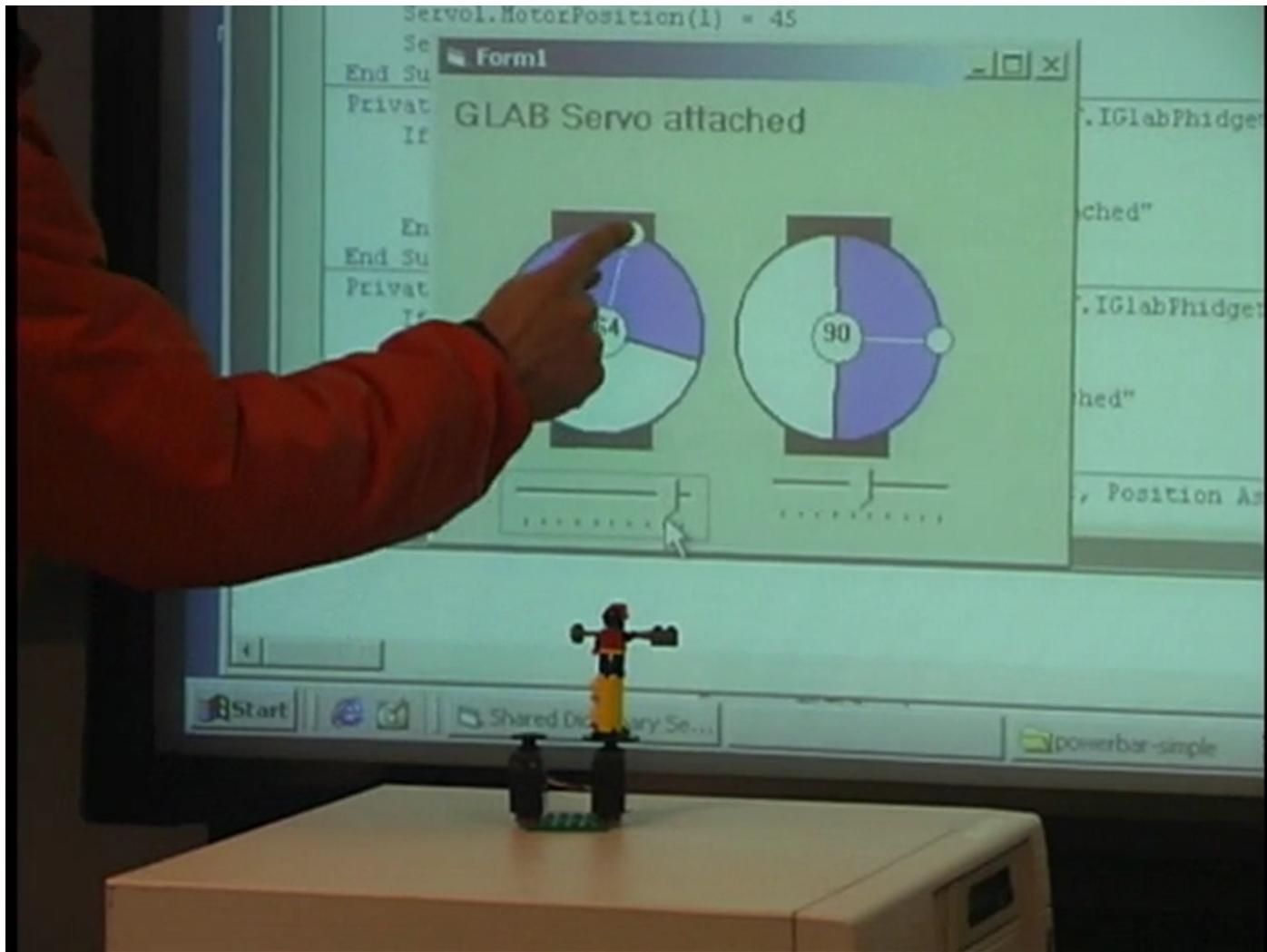


Phidgets (2001)

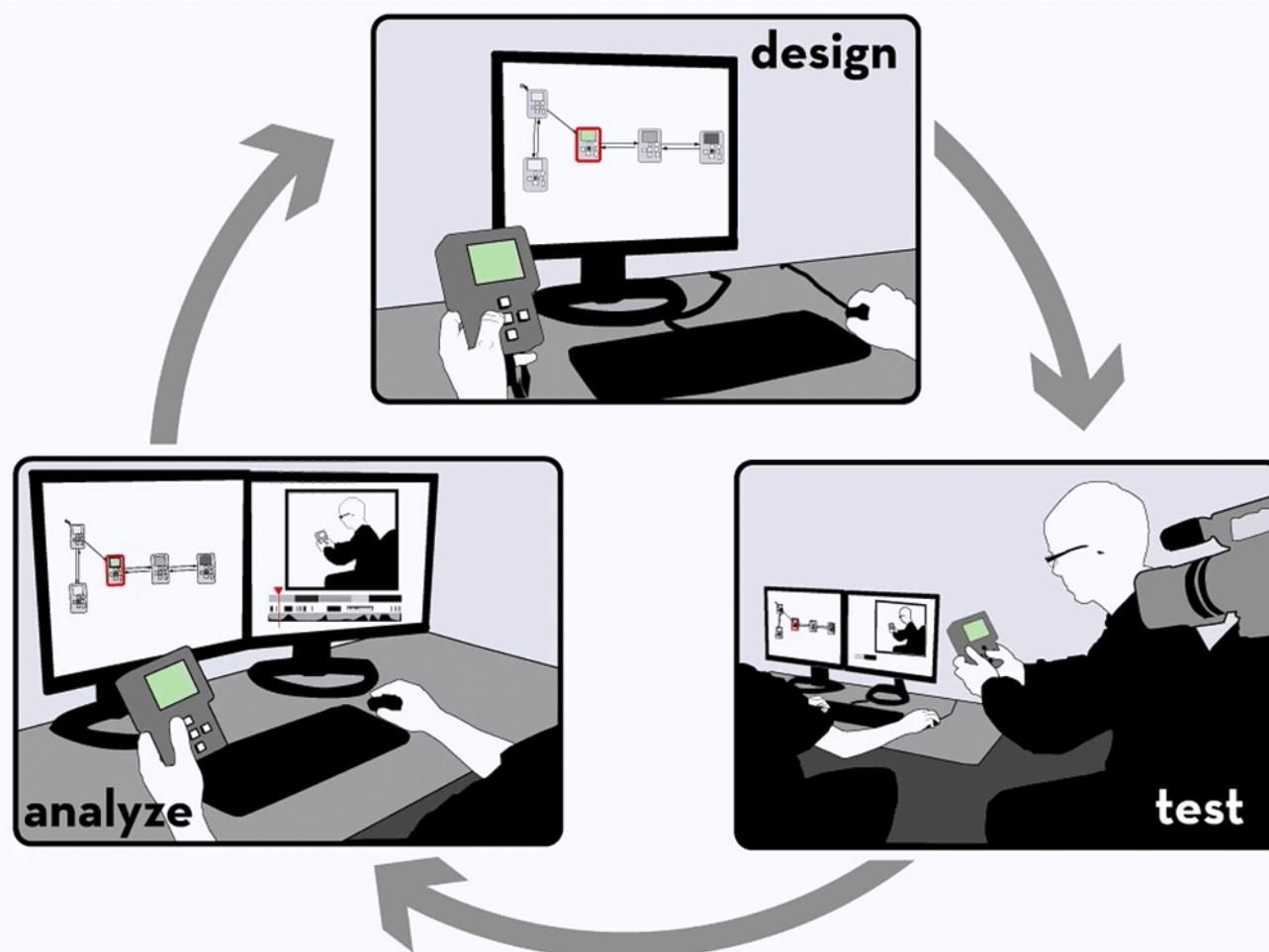


http://courses.cs.washington.edu/courses/cse510/videos/designtools/phidgets_uist2001.mp4

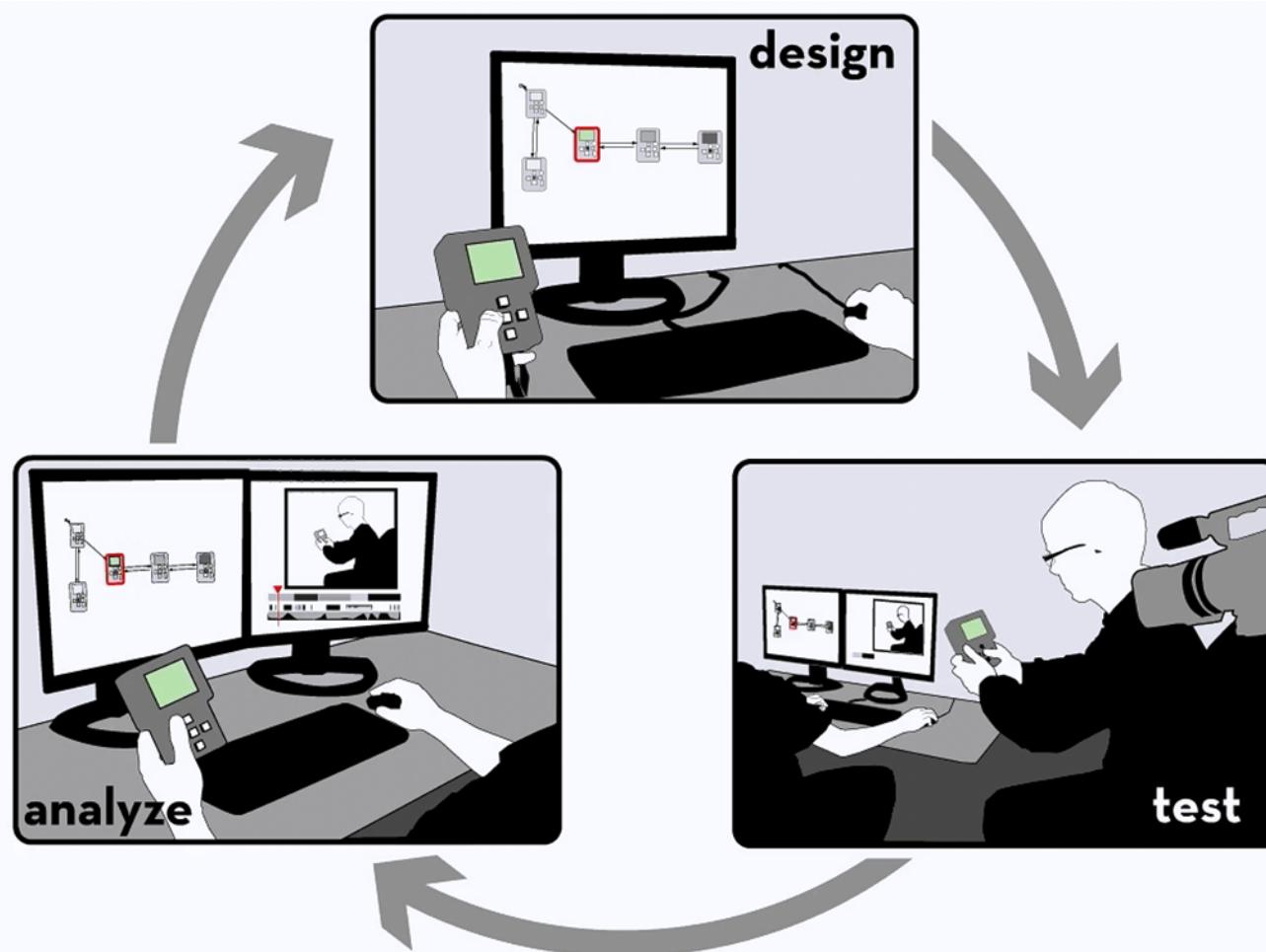
Phidgets (2001)



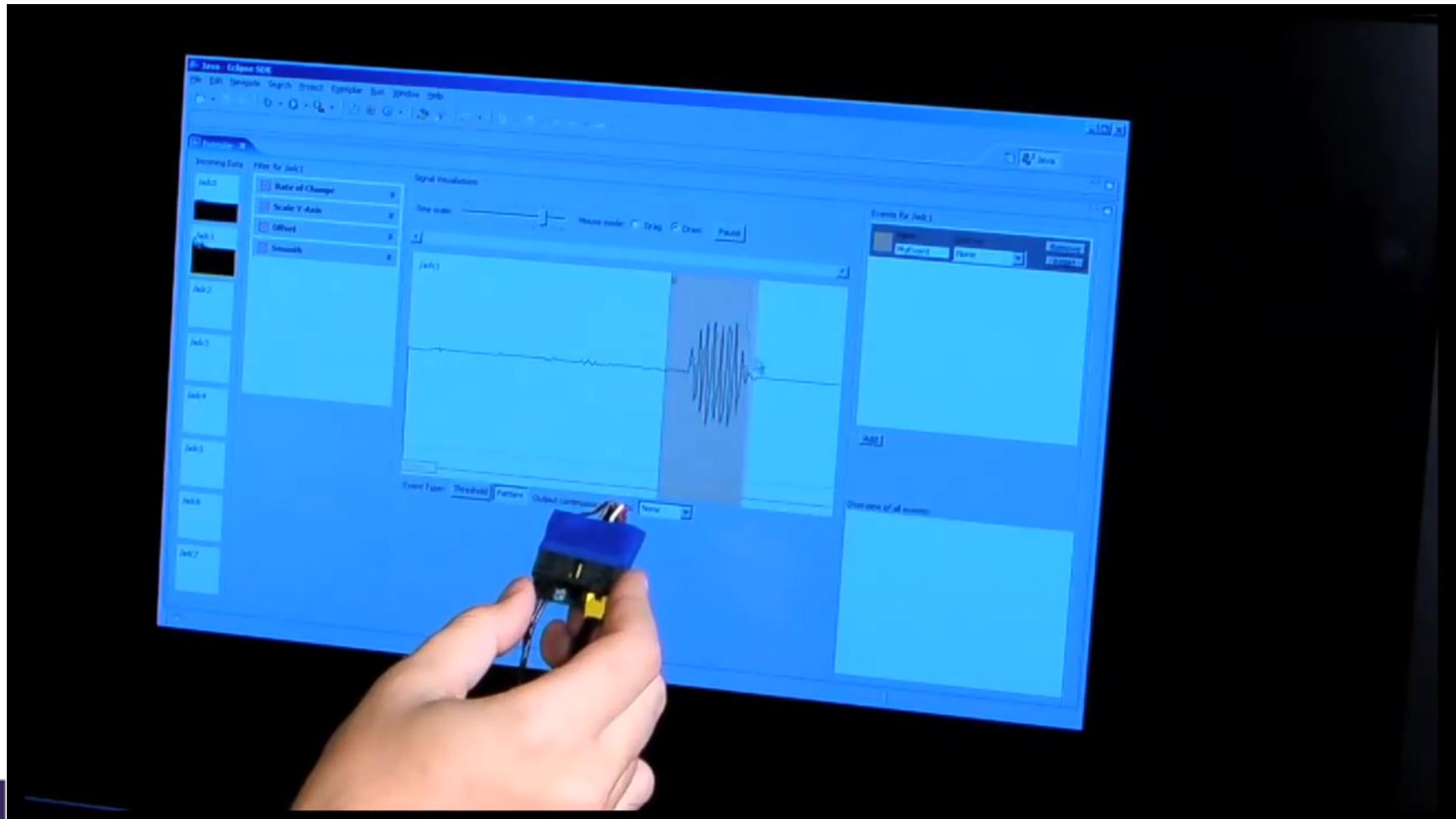
d.Tools (2006)



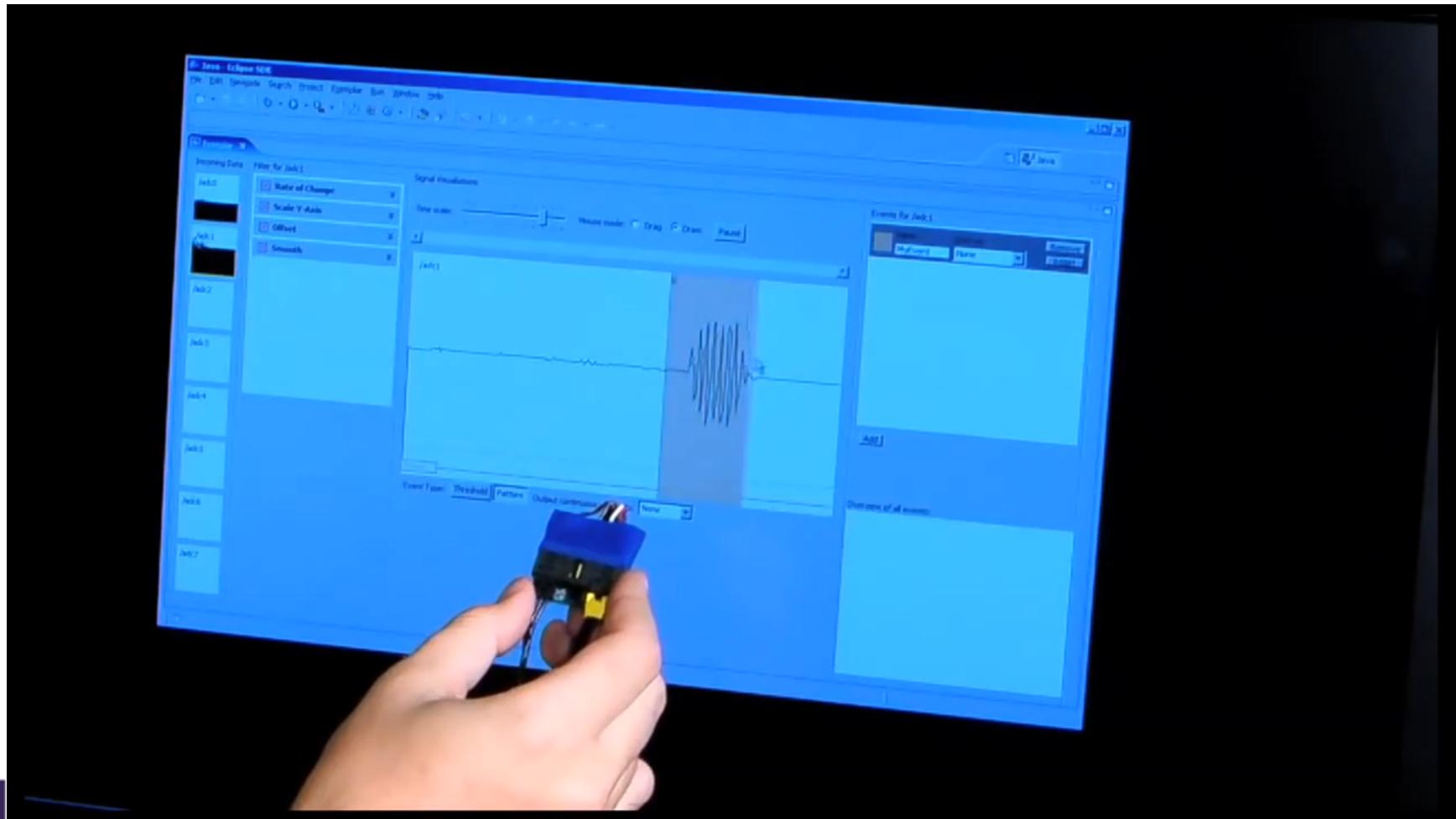
d.Tools (2006)



Exemplar (2007)



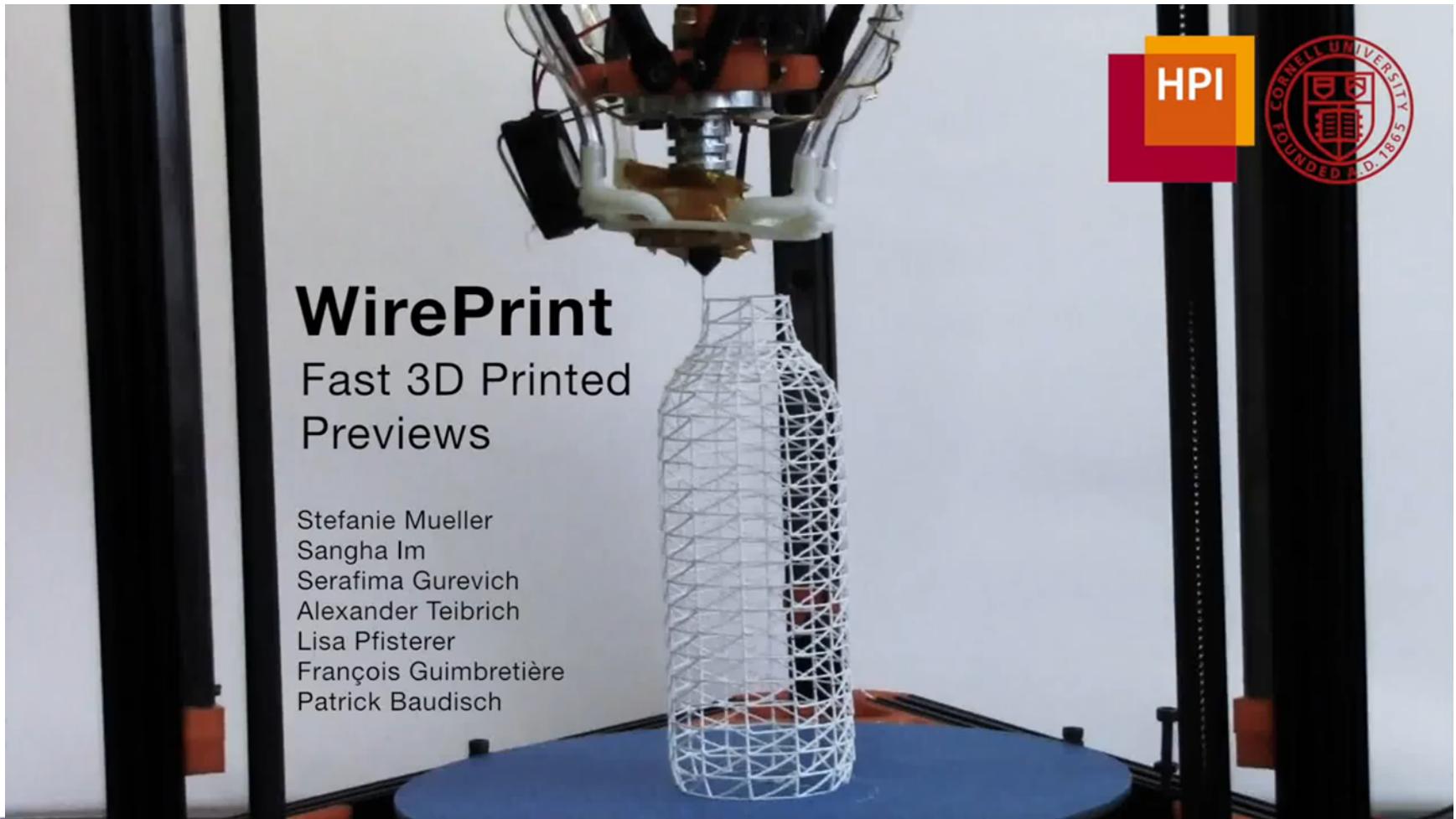
Exemplar (2007)



Constructable (2012)



WirePrint (2014)



WirePrint

Fast 3D Printed Previews

Stefanie Mueller
Sangha Im
Serafima Gurevich
Alexander Teibrich
Lisa Pfisterer
François Guimbretière
Patrick Baudisch

http://courses.cs.washington.edu/courses/cse510/videos/designtools/wireprint_uit2014.mp4

faBrickation (2014)



faBrickation

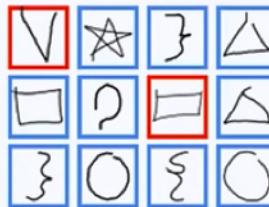
Stefanie Mueller, Tobias Mohr, Kerstin Guenther,
Johannes Frohnhofer, Patrick Baudisch

Gestalt (2010)

Implementation

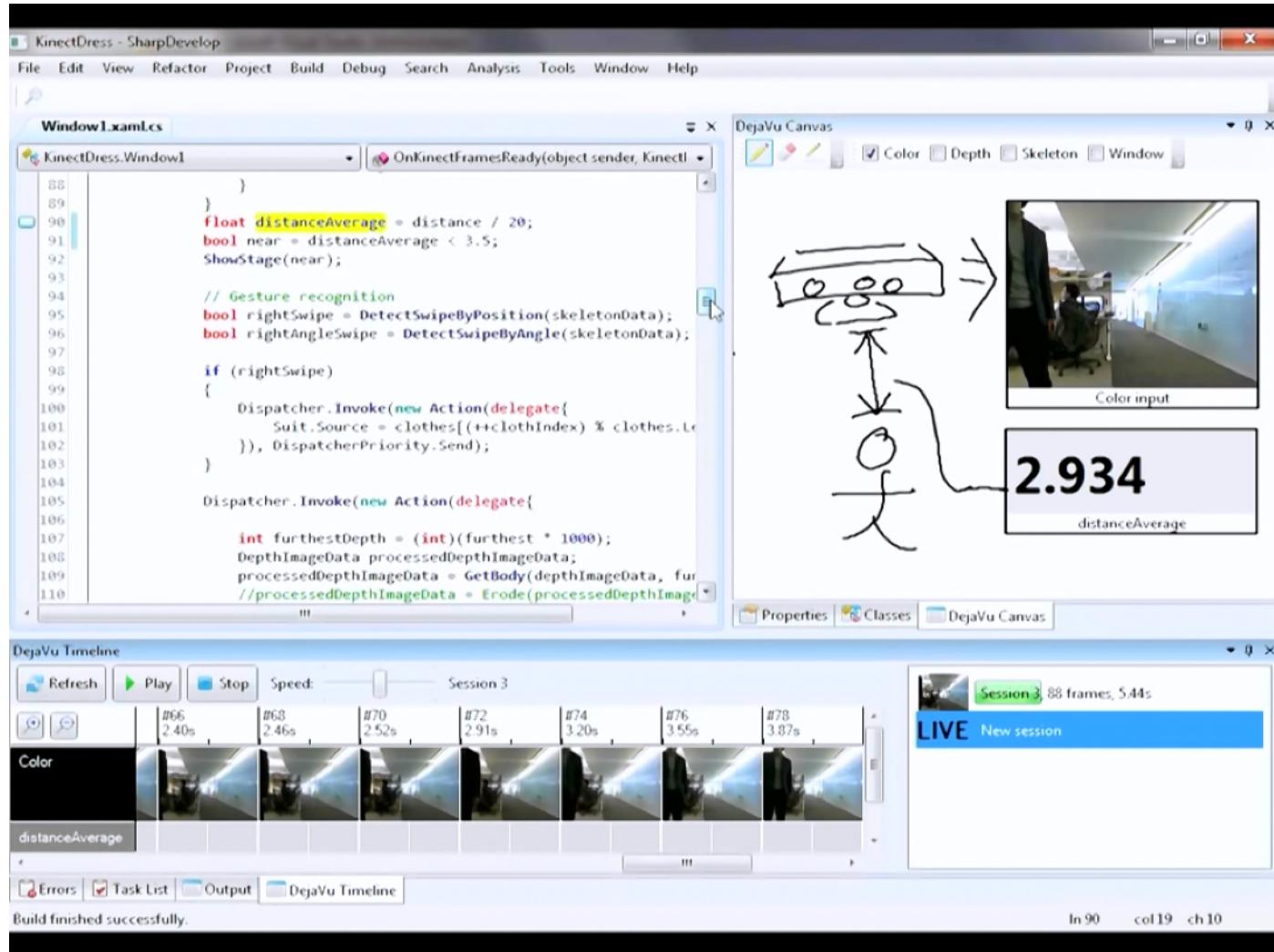


Analysis



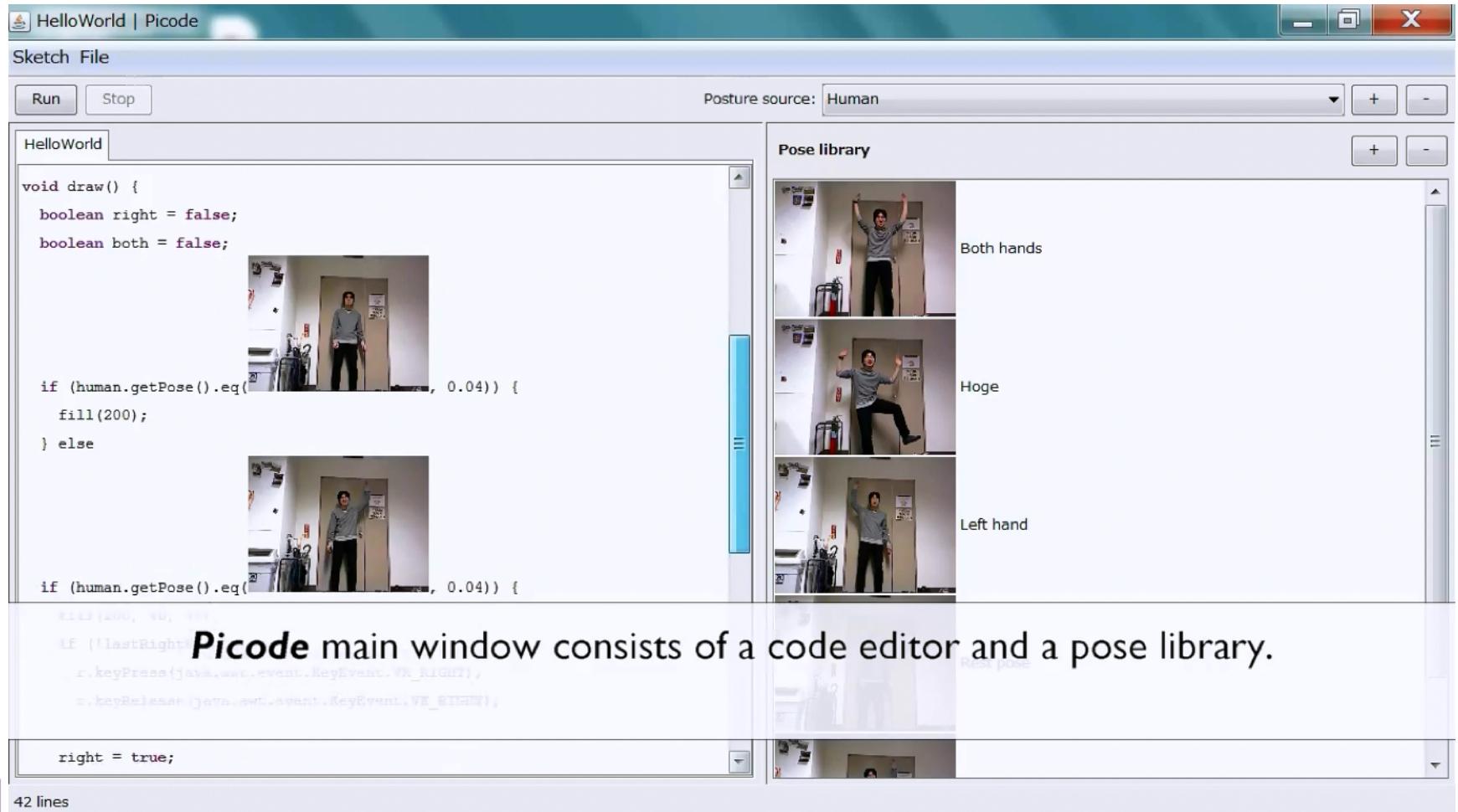
31	29	11	29
12	79	14	79
2	19	10	19
12	79	14	79

DejaVu (2012)



http://courses.cs.washington.edu/courses/cse510/videos/design-tools/dejavu_uist2012.mp4

Picode (2013)



Picode main window consists of a code editor and a pose library.

http://courses.cs.washington.edu/courses/cse510/videos/design-tools/picode_chi2013.mp4

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