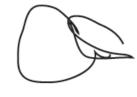
rawshaping formfinding









[RE]SEARCH

SYNOPSIS

Design and Design Engineering is about making abstract representations often based on fuzzy notions, ideas or prerequisite requirements with the use of various design tools. This paper introduces an interactive hybrid design tool to assist and support singular design activity or multiple collaborative creative processing and product creation. It enables the designer or design team to work smoothly with tangible artifacts and traditional design tools. It enables them to freely and intuitively manipulate these objects while simultaneously integrating the iterations into the virtual realm. By loosely-fitting the serendipitous objects, sketches, drawings, images and other data-sets of interest into the design creation process this hybrid tool supports the intuitive interaction and stimulates the immersive experience of augmented reality.

The benefits of the system are haptic and intuitive physical interactionevokingtheexperienceofaugmentedimmersionduring design activity. Furthermore the computational listing and repository of iterative history allows the users to access fallback choice-architecture and make full use of the hybrid environment and design synthesis capabilities.

F2F & HCI

ANALOGUE	DIGITAL		
FACE-TO-FACE AND BEST PRACTICLE LEARNING	BASIC ELECTRONIC ENTERTAINMENT AND COMMUNICATIONS		
frontal lobes executive function	visual and motor		
working memory, logic, insight, emotion and body language	<pre>sequental-short term memory faster and faster immediate rewards limited true self disclosure and anonymity captivating graphics and sounds effects - stimilus bound - stimilus driven attention</pre>		
variable tempo			
often – delayed rewards			
slef - disclosure and openess			
working memory			
working memory	simple memory		
prioritizing	multitasking and continious partial attention		

Comparison chart Analogue vs. Digital Interaction Environments (M.R. Hicks 2010)

Design Tools: Hybridization, Exploring Intuitive Interaction [Loosely Fitted Design Synthesizer]

Robert E. Wendrich / Department of Design, Production and Management, Faculty of Engineering Technology, University of Twente, the Netherlands / info@rawshaping.com

HYBRID TOOL



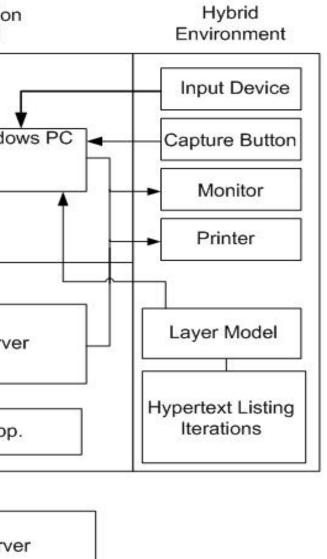
LFDS]

The Loosely Fitted Design Synthesizer has a strong metaphorical link with a design office inspirational pegboard, picture wall or serendipitous image-wall. This kind of raw data repository with clippings, image collections and paraphernalia trivial objects clutter the office wall and desktops as a token of memories and tell time in historic layers. These artifacts or objects combined embody a certain serendipitous value and provoke creative ignition in support of design thinking and/or design articulation. On-line searching for inspirational content has similar cognitive triggers. The LFDS has connections to both this analogue wall and the digital wall of sites like i.e. Flicker and Google Images.

TWO-WORLD CHALLENGE:		LFDS Hyte Non- Representation Rendering
Linking the Physical and the Virtual	Hardware	Standard Windo
	Software	App. serv Web ap
		♥ Web Serv

www.rawshaping.com

brid Architecture -Immersive



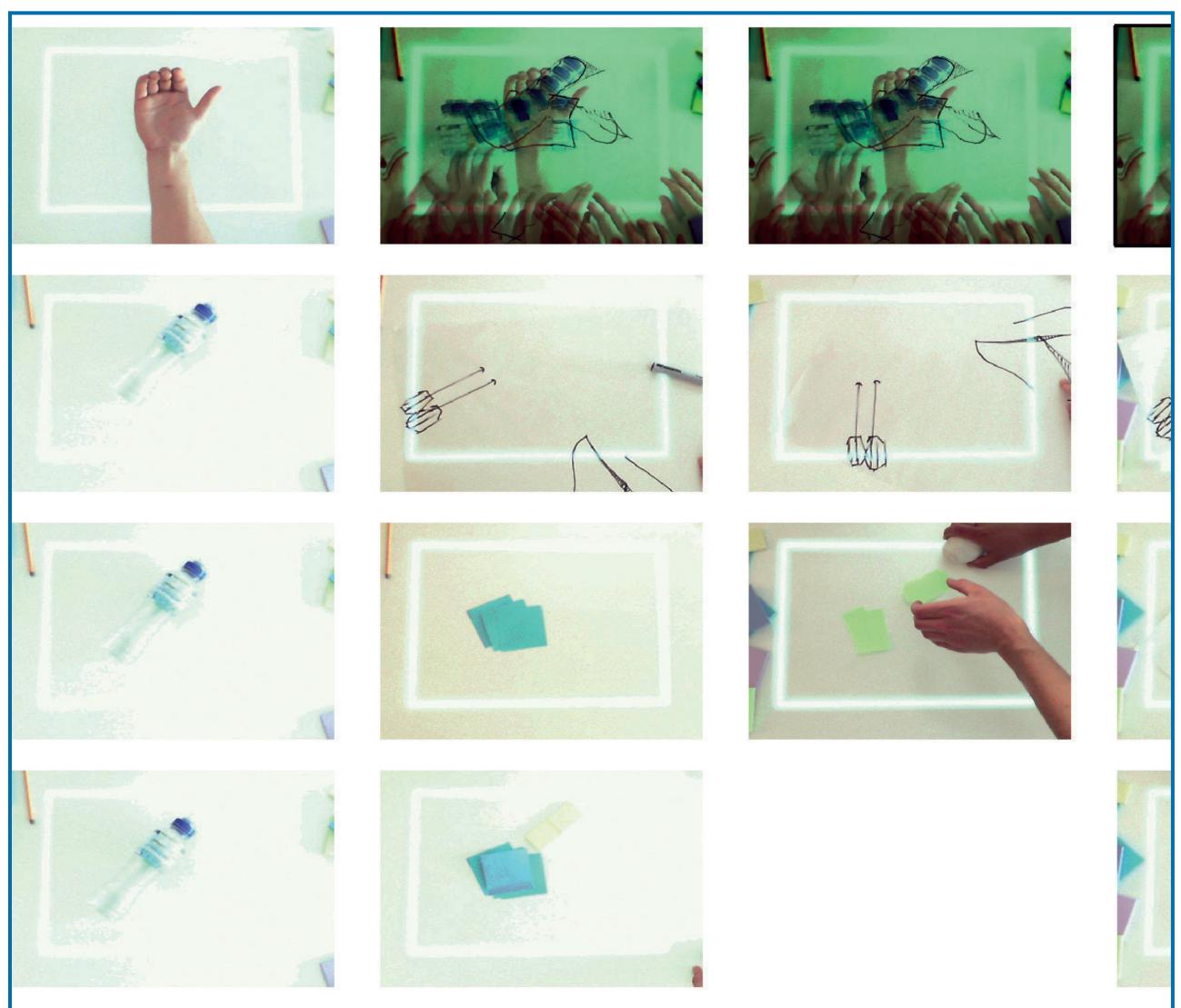
LFDS Components: [hybrid stand-alone environment] PC: Standard Windows PC with Win

OS - XP Input Devices: Numpad control, HD Webcam, Handswitch, Footswitch

Output Devices: Monitor 26" LCD, Audio Realtek HD sound system, Projector Infocus 2000 ANSI Lumen Lighting RGB LED strips remote control

Web browser





UNIVERSITY OF TWENTE

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