The Museum of Modern Art

Talk To Me: Design and the Communication between People and Objects

The Museum of Modern Art, New York July 24, 2011-November 07, 2011 3rd Floor, Special Exhibitions

01_Entry Corridor



TIMO ARNALL (British, born 1976)
EINAR SNEVE MARTINUSSEN (Norwegian, born 1982)
OSLO SCHOOL OF ARCHITECTURE AND DESIGN (Norway, est. 1961)
JACK SCHULZE (British, born 1976)
BERG (UK, est. 2005)
Immaterials: Ghost in the Field
2009
Video (4:08 min.)



TIMO ARNALL (British, born 1976)
OSLO SCHOOL OF ARCHITECTURE AND DESIGN (Norway, est. 1961)
JACK SCHULZE (British, born 1976)
BERG (UK, est. 2005)
Nearness
2009
Video (1:01 min.)



ARAM BARTHOLL (German, born 1972)

Dead Drops

2010

USB flash drives and Teflon tape



DENTSU LONDON (UK, est. 2010)
BERG (UK, est. 2005)
Suwappu
2011
Polyurethane and custom software
Each: 2 5/8 x 1 5/16 x 1 5/16" (6.7 x 3.3 x 3.3 cm)



CHRISTIAN SVANES KOLDING (Danish, born 1969)

The Things We Keep

2010

Photoshop, Finalcut Pro, After Effects Software



YANN LE COROLLER (French, born 1969)

Talking Carl

2010

3DSmax, Vray, and Xcode software



LUCAS MAASSEN (Dutch, born 1975)
DESIGN ACADEMY EINDHOVEN (The Netherlands, est. 1947)
WOODY VENEMAN (Dutch, born 1982)
ACADEMIE VOOR BEELBENDE VORMING TILBURG (The Netherlands, est. 1912)
Singing Chair
2010
Video (2:34 min.)



GEOFFREY MANN (British, born 1980) Cross-fire from the Natural Occurrence series 2010 Video (1:55 min.)



KEIICHI MATSUDA (British and Japanese, born Hong Kong 1984) Augmented (hyper) Reality: Augmented City 3D 2010 Video (2:46 min.)



CHRIS O'SHEA (British, born 1981)

Hand from Above
2009

C++, openFrameworks, openCV, and custom software



ROGER PUJOL (Spanish, born 1986)
DANI ARMEGOL (Spanish, born 1986)
CHRISTIAN VILLACANAS (Spanish, born 1989)
MULTITOUCH BARCELONA (Spain, est. 2007) *Hi, A Real Human Interface*2009
Video (6:21 min.)

02_Objects



AYAH BDEIR (Lebanese, born 1982)

littleBits
2008

Printed circuit board, analog components, and magnets
Each: 13/16 x 13/16" (2 x 2 cm)



SEBASTIAN BETTENCOURT (Portuguese, born 1978) GRADUATE MEDIA DESIGN PROGRAM (est. 2001) ART CENTER COLLEGE OF DESIGN (USA, est. 1930) Beyond the Fold 2007 Video (3:25 min.)



BUG LABS (USA, est. 2006) BUG 1.3 and BUG 2.0 2009 Polycarbonate-ABS, polypropylene, stainless steel, brass, and silicon Base: $2\ 1/2\ x\ 5\ x\ 1/4$ " (6.4 x 12.7 x 0.6 cm) Module: $2\ 1/2\ x\ 2\ 1/2\ x\ 3/4$ " (6.4 x 6.4 x 1.9 cm)



JAMES CHAMBERS (British, born 1983)
DESIGN INTERACTIONS DEPARTMENT (est. 1989)
ROYAL COLLEGE OF ART (UK, est. 1837)
Floppy Legs Portable Hard Drive from the Attenborough Design Group 2010
Various materials
3 7/8 x 5 7/8 x 9 3/4" (9.9 x 14.9 x 24.8 cm)



JAMES CHAMBERS (British, born 1983)
DESIGN INTERACTIONS DEPARTMENT (est. 1989)
ROYAL COLLEGE OF ART (UK, est. 1837)
Gesundheit Radio from the Attenborough Design Group
2010
Various materials
4 11/16 x 11 3/8 x 3 1/16" (11.9 x 28.9 x 7.8 cm)



JAMES CHAMBERS (British, born 1983)
DESIGN INTERACTIONS DEPARTMENT (est. 1989)
ROYAL COLLEGE OF ART (UK, est. 1837)
Strangle Poise Lamp from the Red Goods Collection
2010
Various materials
70 7/8 x 9 3/4 x 23 9/16" (180 x 24.8 x 59.9 cm)



DENTSU LONDON (UK, est. 2010) BERG (UK, est. 2005) Media Surfaces: Incidental Media 2010 Video (4:05 min.)



DENTSU LONDON (UK, est. 2010) BERG (UK, est. 2005) Media Surfaces: The Journey 2010 Video (2:19 min.)



JACK DORSEY (American, born 1976)
Square
2010
ABS, permalloy, copper, PVC, and carbon film resistor
1 x 1 x 9/16" (2.5 x 2.5 x 1.5 cm)



ROBERT FALUDI (American, born 1966)
KATE HARTMAN (American, born 1981)
KATI LONDON (American, born 1976)
REBECCA BRAY (American, born 1974)
INTERACTIVE TELECOMMUNICATIONS PROGRAM (est. 1979)
TISCH SCHOOL OF THE ARTS (est. 1965)
NEW YORK UNIVERSITY (USA, est. 1831)
Botanicalls
2006
Electronics, printed circuit board, stainless steel, and Arduino software
10 x 2 x 1 1/2" (25.4 x 5.1 x 3.8 cm)



CLARA GAGGERO (Italian, born 1980)
ADRIAN WESTAWAY (British and French, born Singapore 1982)
VITAMINS (UK, est. 2008)
SAMSUNG DESIGN EUROPE (UK, est. 1999)
HELEN HAMLYN CENTER FOR DESIGN (UK, est. 1999)
ROYAL COLLEGE OF ART (UK, est. 1837)
Out of the Box
2009
9 1/16 x 1 15/16 x 6 11/16" (23 x 5 x 17 cm)



SIMON HEIJDENS (Dutch, born 1978)

Broken White

2004

Ceramic



RICHARD HOGG (British, born 1973)

Barclays ATM animations

2010

Illustrator, Flash, and Photoshop software



TIM HOLLEY (British, born 1985) *Tio*2009
ABS, TPU, printed circuit boards, and electronics
5 3/8 x 5 7/8 x 1 3/4" (13.6 x 15 x 4.5 cm)



DURRELL BISHOP (British, born 1963) LUCKYBITE (UK, est. 2005) *BirdBox* 2009 Paper, wood, and iProcessing and Xcode software 6 5/16 x 3 15/16 x 3 9/16" (16 x 10 x 9 cm)

TOM HULBERT (British, born 1977)



KAMIL JERZYKOWSKI (Polish, born 1981) MAGDALENA KALEK (Polish, born 1981) AH & OH STUDIO (Poland, est. 2008) BugPlug 2009 ABS 13 3/4 x 4 1/2 x 4 5/16" (35 x 11.5 x 11 cm)



CRISPIN JONES (British, born 1974)

Tengu

2007

ABS and electronics

2 3/4 x 1 11/16 x 9/16" (7 x 4.3 x 1.5 cm)



JEEVAN KALANITHI (American, born 1978)
DAVID MERRILL (American, born 1978)
MIT MEDIA LABORATORY (est. 1985)
MASSACHUSETTS INSTITUTE OF TECHNOLOGY (USA, est. 1861)
Sifteo Cubes
2010
C code, injection-molded ABS and polycarbonate, color LCDs, electronics, and

motion and proximity sensors Each: 1 11/16 x 1 11/16 x 3/4" (4.3 x 4.3 x 1.9 cm)



KACIE KINZER (American, born 1983)
INTERACTIVE TELECOMMUNICATIONS PROGRAM (est. 1979)
TISCH SCHOOL OF THE ARTS (est. 1965)
NEW YORK UNIVERSITY (USA, est. 1831)
Tweenbot
2009
Cardboard, paper, ink, batteries, motor, and wheels
36 x 8 1/2 x 14" (91.4 x 21.6 x 35.6 cm)



YUKI KISHI (Japanese, born 1977)
SAORI WATANABE (Japanese, born 1969)
DENTSU INC. (Japan, est. 1901)
SHINYA KISHIRO (Japanese, born 1970)
ROBOT COMMUNICATIONS INC. (Japan, est. 1986)
PhoneBook
2009
Offset lithography, urethane, and Xcode, Flash, and Photoshop software
9 7/16 x 6 5/16 x 1 3/8" (24 x 16 x 3.5 cm)



GOLAN LEVIN (American, born 1972)
LAWRENCE HAYHURST (American, born 1950)
STEVEN BENDERS (American, born 1986)
FANNIE WHITE (American, born 1943)
CARNEGIE MELLON SCHOOL OF ART (est. 1905)
CARNEGIE MELLON UNIVERSITY (USA, est. 1900)
Double-Taker (Snout) Video
2008
Video (1:29 min.)



ETIENNE MINEUR (French, born 1968)
LES EDITIONS VOLUMIQUES (France, est. 2010)
The Night of the Living Dead Pixels
2010
Paper and PHP and MySQL software
4 3/4 x 6 1/2 x 9/16" (12 x 16.5 x 1.5 cm)



SIGI MOESLINGER (Austrian, born 1968)
MASAMICHI UDAGAWA (Japanese, born 1964)
ANTENNA DESIGN (USA, est. 1997)
DAVID REINFURT (American, born 1971)
KATHLEEN HOLMAN (American, born 1962)
MTA NEW YORK CITY TRANSIT TEAM (USA, est. 1953)
MetroCard Vending Machine
1999

Vending machine: steel and other materials; Interface: Director, Photoshop, Illustrator, and Visual Basic software
79 15/16 x 41 3/4 x 26" (203 x 106 x 66 cm)



NICOLAS MYERS (French, born 1978)
DESIGN INTERACTIONS DEPARTMENT (est. 1989)
ROYAL COLLEGE OF ART (UK, est. 1837)
Transgenic Bestiary
2009

Tiles: Acrylic; Game: Flash, Java and Reactivision software

Each: 5/16 x 1 3/16" (0.8 x 3 cm)



MICHIKO NITTA (Japanese, born 1978)
PRODUCT DESIGN DEPARTMENT (est. 1938)
CENTRAL SAINT MARTINS COLLEGE OF ART AND DESIGN (UK, est. 1989)
Mr. Smilit
2003
Polycarbonate, fake fur, fabric, and electronics
11 13/16 x 7 1/16 x 5 7/8" (30 x 18 x 15 cm)



ERIC SCHWEIKARDT (American, born 1976)

Cubelets

2010

ABS, magnets, electronics, and copper

1 9/16 x 1 9/16 x 1 9/16" (4 x 4 x 4 cm)



MATTEO SIGNORINI (Italian, born 1973) PASCAL SOBOLI (German, born 1974) MARTIN FREY (German, born 1978) ROBIN BIGIO (Italian, born 1982) ALEXANDER GROTS (German, born 1970) VICKY ARNDT (German, born 1974) JUDITH HUFNAGEL (German, born 1977) IDEO (USA, est. 1991) BEATRIZ LARA (Spanish, born 1962) JESÚS ALEJANO (Spanish, born 1970) ELENA ALFARO (Spanish, born 1975) PASCUAL DE JUAN (Spanish, born 1967) JORGE RODRIGUEZ PALOMAR (Spanish, born 1970) ANDRÉS RETORTILLO (Spanish, born 1961) JULIO PÉREZ (Spanish, born 1969) BBVA (Spain, est.1999) The Future of Self-Service Banking 2010



DANIEL SOLTIS (American, born 1975)
NATASHA CAROLAN (Irish, born 1985)
RICHARD WOOD (British, born 1983)
TINKER (UK, est. 2007)
Homesense Research Kit
2010
Card, paper, electronics, and cables
11 3/4 x 16 1/2 x 2 3/4" (29.8 x 41.9 x 7 cm)



LISA STRAUSFELD (American, born 1964)
HILLA KATKI (American, born 1977)
MICHAEL DEAL (American, born 1987)
ADAM SUHARJA (American, born 1987)
PENTAGRAM (UK and USA, est. 1972)
GE Ecomagination: Home Appliance Energy Use
2010
Illustrator and ActionScript 3 software



MIKE THOMPSON (British, born 1981)
Wifi Dowsing Rod
2007
Wood and electronics
18 7/8 x 6 1/8 x 9/16" (48 x 15.5 x 1.5 cm)



MASAMICHI UDAGAWA (Japanese, born 1964)
SIGI MOESLINGER (Austrian, born 1968)
BRUCE PRINGLE (American, born 1967)
ANTENNA DESIGN (USA, est. 1997)
JetBlue interface
2004
Director, Photoshop, Illustrator, and Visual Basic software



CHE-WEI WANG (Taiwanese, born 1979)
KRISTIN O'FRIEL (American, born 1980)
Momo
2007
Lasercut masonite, servo motors, vibration motor, GPS, digital compass, microcontroller, wool
6 x 6 x 12" (15.2 x 15.2 x 30.5 cm)

03_I'm Talking to You



RIZWAN BASHIRULLAH (Venezuelan, born 1974)
HONG YU (Chinese, born 1977)
DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING (est. 1910)
UNIVERSITY OF FLORIDA (USA, est. 1905)
CHRISTOPHER BATICH (American, born 1943)
DEPARTMENT OF MATERIALS SCIENCE AND ENGINEERING (est. 1959)
UNIVERSITY OF FLORIDA (USA, est. 1905)
NEIL EULIANO (American, born 1964)
ETECT, LLC (USA, est. 2009)
Swallow-Signaling Pill
2010
Hard gelatin capsule, biocompatible silver conductive ink, and silicon



MARIE-VIRGINIE BERBET (French, born 1979)

Little Black Box. Empathy Box

2008

PMMA, light-diffusion-control film, LEDs, and plethysmographic sensor
7 3/8 x 9 1/4 x 7 1/4" (18.7 x 23.5 x 18.4 cm)



BEN CAREY (French, born 1971)
HENRIK DELEHAG (Swedish, born 1973)
BENRIK (UK, est. 2003)
SOHRAB SALEHI (Iranian, born 1989)
ALI NADALIZADEH (Iranian, born 1989)
SOROUSH KHODAII (Canadian, born 1989)
TURNED ON DIGITAL (UK, est. 2010)
JOHN-HENRY BARAC (British, born 1964)
Situationist
2011
Xcode software

semiconductor chip 7/8 x 1/4" (2.2 x 0.6 cm)



REVITAL COHEN (Israeli, born 1981)
DESIGN INTERACTIONS DEPARTMENT (est. 1989)
ROYAL COLLEGE OF ART (UK, est. 1837)
Artificial Biological Clock
2008
Glass, resin, nickel-plated brass, and electronics
5 7/8 x 6 11/16 x 5 7/8" (15 x 17 x 15 cm)



REVITAL COHEN (Israeli, born 1981)
DESIGN INTERACTIONS DEPARTMENT (est. 1989)
ROYAL COLLEGE OF ART (UK, est. 1837)
Disclosure Case from the Genetic Heirloom Series
2010
Pear wood, glass, resin, gold-plated brass, powder-coated steel, and acrylic tubing
12 5/8 x 9 1/16 x 11 13/16" (32 x 23 x 30 cm)



REVITAL COHEN (Israeli, born 1981)
DESIGN INTERACTIONS DEPARTMENT (est. 1989)
ROYAL COLLEGE OF ART (UK, est. 1837)
Phantom Recorder
2010
Glass, leather, electronics, and steam
11 13/16 x 19 11/16 x 13 3/4" (30 x 50 x 35 cm)



DEPARTMENT OF POLYTRONIC SYSTEMS (est. 2001)
FRAUNHOFER EMFT (Germany, est. 1949)
Personal Health Assistant
2010
Polyimide film, semiflexible standard printed circuit board, and electroluminescent pastes
10 x 1 5/8 x 3/4" (25.4 x 4.1 x 1.9 cm)



GUNNAR GREEN (German, born 1978)
DESIGN INTERACTIONS DEPARTMENT (est. 1989)
ROYAL COLLEGE OF ART (UK, est. 1837)
Call Me, Choke Me
2008
Leather, aluminum, plastic, and electronics
1 9/16 x 6 5/16 x 5 7/8" (4 x 16 x 15 cm)



KATE HARTMAN (American, born 1981)
INTERACTIVE TELECOMMUNICATIONS PROGRAM (est. 1979)
TISCH SCHOOL OF THE ARTS (est. 1965)
NEW YORK UNIVERSITY (USA, est. 1831)
Muttering Hat
2006
Polyester, foam, speakers, and digital audio player
12 x 23 x 5" (30.5 x 58.4 x 12.7 cm)



KATE HARTMAN (American, born 1981)
INTERACTIVE TELECOMMUNICATIONS PROGRAM (est. 1979)
TISCH SCHOOL OF THE ARTS (est. 1965)
NEW YORK UNIVERSITY (USA, est. 1831)
Talk to Yourself Hat
2006
Polyester, funnels, plastic and wire
21 x 15 x 6" (53.3 x 38.1 x 15.2 cm)



HANS HEMMERT (German, born 1960) *Level* 1997 Polystyrene, rubber, and Velcro



JAMES KING (British, born 1982)
ALEXANDRA DAISY GINSBERG (British, born 1982)
IGEM 2009 TEAM
UNIVERSITY OF CAMBRIDGE (UK, est. 1209)
E. chromi
2009

Models: fiberglass-reinforced polyester; case: aluminum, polyethylene foam,

and Perspex; Universal Indicators: Perspex Case: 18 1/8 x 18 1/8 x 16 1/8" (46 x 46 x 41 cm) Models: 3/16 x 2 3/16 x 1 3/8" (0.5 x 5.5 x 3.5 cm)



ZACH LIEBERMAN (American, born 1977)
JAMES POWDERLY (American, born 1976)
EVAN ROTH (American, born 1978)
CHRIS SUGRUE (American, born 1978)
TEMPT1 (American)
THEO WATSON (British, born 1981)
EyeWriter
2009

openFrameworks and custom software, eyeglasses, PlayStation Eye camera, IR pass filter, IR LEDs, battery clip, resistor, zip ties, and flexible metal wire $7.7/8 \times 5.7/8 \times 1.15/16$ " (20 x 15 x 5 cm)



JONAS LOH (German, born 1981)
DESIGN INTERACTIONS DEPARTMENT (est. 1989)
ROYAL COLLEGE OF ART (UK, est. 1837)

Amae Apparatus
2010
Aluminum, wood, leather, galvanic skin response (GSR) sensor, smoke grenade, switch, and glass tube
13 3/4 x 7 7/8 x 5 1/2" (35 x 20 x 14 cm)



MICHAEL LONGFORD (Canadian, born 1960) SAM BECK (Canadian, born 1990) SARA CWYNAR (Canadian, born 1985) TRACY MA (Canadian, born 1988) CHRISTOPHER MOOREHEAD (Canadian, born 1964) SARAH SCARBROUGH-WINTER (American and Canadian, born 1967) MOBILE MEDIA LAB (est. 2007) YORK UNIVERSITY (Canada, est. 1959) GEOFFREY SHEA (Canadian, born 1958) DAVID GREEN (Jamaican and Canadian, born 1962) KEN LEUNG (Canadian, born 1974) MOBILE EXPERIENCE LAB (est. 2006) ONTARIO COLLEGE OF ART AND DESIGN (Canada, est. 1876) ROB KING (Canadian, born 1982) CANADIAN FILM CENTRE MEDIA LAB (Canada, est. 1997) NICK STORRING (Canadian, born 1981) **Tentacles** 2009 Objective-C and Processing software



ADI MAROM (Israeli, born 1974)
INTERACTIVE TELECOMMUNICATIONS PROGRAM (est. 1979)
TISCH SCHOOL OF THE ARTS (est. 1965)
NEW YORK UNIVERSITY (USA, est. 1831)
Short++
2010
Aluminum, electronics, and Arduino and HTML software
7 x 4 3/4 x 9 1/2" (17.8 x 12.1 x 24.1 cm)



CHRIS MILK (American, born 1975)

AARON KOBLIN (American, born 1982)

GOOGLE CREATIVE LAB (est. 2007)

GOOGLE INC. (USA, est. 1998)

MR.DOOB (UK, est. 2006)

B-REEL (Sweden, est. 1999)

@RADICAL.MEDIA (USA, est. 1993)

The Wilderness Downtown

2010

HTML5, JavaScript, Google Maps' Satellite & Street View imagery software



SASCHA NORDMEYER (German and French, born Germany 1977)

Communication Prosthesis

2009

Lacquered resin

2 x 3 11/16 x 1 3/16" (5.1 x 9.3 x 3 cm)



SASCHA NORDMEYER (German and French, born Germany 1977)

Communication Prosthesis Portrait Series (Cyclist, Actress, Chef, Craftsman, Midwife, Politician, Model)

2009

Digital prints

16 9/16 x 12 7/16" (42 x 31.6 cm)



KEY PORTILLA-KAWAMURA (Spanish and Japanese, born Spain 1979)
ALI GANJAVIAN (Azerbaijani and Iranian, born Iran 1979)
PABLO CARRASCAL (Spanish, born 1984)
KAWAMURA-GANJAVIAN (Spain, est. 2006)
Earshell
2010
Polypropylene
1 1/2 x 3 1/8 x 3 3/4" (3.8 x 7.9 x 9.5 cm)



GERARD RALLO (Spanish, born 1984)
DESIGN INTERACTIONS DEPARTMENT (est. 1989)
ROYAL COLLEGE OF ART (UK, est. 1837)
Expressions Dispatcher
2009

Aluminum, acrylic, foam, fabric and electronics Helmet: 11 13/16 x 8 7/8 x 12 13/16" (30 x 22.6 x 32.5 cm) Remote control: 3 15/16 x 3 9/16 x 1 3/8" (10 x 9 x 3.5 cm)



GERARD RALLO (Spanish, born 1984)
DESIGN INTERACTIONS DEPARTMENT (est. 1989)
ROYAL COLLEGE OF ART (UK, est. 1837)
Conversation Challenger
2010
Acrylic and electronics
3 x 6 3/4 x 3 1/4" (7.6 x 17.1 x 8.3 cm)



GERARD RALLO (Spanish, born 1984)
DESIGN INTERACTIONS DEPARTMENT (est. 1989)
ROYAL COLLEGE OF ART (UK, est. 1837)
Personal Adviser for Reintegration
2010
Acrylic and electronics
8 1/4 x 11 7/16 x 13 3/8" (21 x 29 x 34 cm)



GERARD RALLO (Spanish, born 1984)
DESIGN INTERACTIONS DEPARTMENT (est. 1989)
ROYAL COLLEGE OF ART (UK, est. 1837)
Reiterative Communication Aid
2010
Acrylic and electronics
7 1/2 x 10 1/4 x 12 5/8" (19 x 26 x 32 cm)



DAVID ROSE (American, born 1967) VITALITY (USA, est. 2004) *GlowCaps* 2010 ABS 4 3/4 x 1 15/16 x 1 15/16" (12 x 5 x 5 cm)



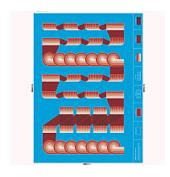
JAMES AUGER (British, born 1970)
JIMMY LOIZEAU (British, born 1968)
AUGER/LOIZEAU (UK, est. 2000)
REYER ZWIGGELAAR (Dutch, born 1963)
BASHAR RJOUB (Jordanian, born 1974)
DEPARTMENT OF COMPUTER SCIENCE (est. 1970)
ABERYSTWYTH UNIVERSITY (UK, est. 1872)
Happylife
2010

 $\label{thm:eq:high-resolution} \mbox{High-resolution thermal-image camera, Corian, stainless steel, and electronics}$

15 3/4 x 39 3/8 x 3 9/16" (40 x 100 x 9 cm)



JOHANNA BRESNICK (American, born 1973)
MICHAEL CLOUD HIRSCHFELD (American, born 1975)
From Mouth to Mouth
2006
Paper and gel capsules
Each: 7/8 x 1/4" (2.2 x 0.6 cm)



BENJAMIN DENNEL (French, born 1983) STUDIO B/C (France, est. 2009) Brushing Teeth 2009 Screenprint 45 1/4 x 33 1/16" (115 x 84 cm)



NICHOLAS FELTON (American, born 1977) Feltron Annual Reports 2006-2011



INTERACTION RESEARCH STUDIO (est. 2000)
GOLDSMITHS (est. 1891)
UNIVERSITY OF LONDON (UK, est. 1836)
Prayer Companion
2010
Photopolymer resin, dot-matrix display, and printed circuit board
13 3/4 x 8 11/16 x 5 1/2" (35 x 22 x 14 cm)



JENNIFER KAY (Scottish, born 1986)

JACEK BARCIKOWSKI (Polish, born 1981)

MARTINA PAGURA (Italian, born 1983)

COPENHAGEN INSTITUTE OF INTERACTION DESIGN (Denmark, est. 2007)

Sidetrack

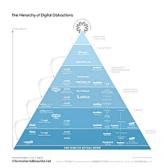
2010

Wood, acrylic, paper, ink, and electronics

25 9/16 x 27 9/16 x 23 5/8" (65 x 70 x 60 cm)



FRANK LANTZ (American, born 1963)
KEVIN SLAVIN (American, born 1969)
KEVIN CANCIENNE (American, born 1975)
KATI LONDON (American, born 1976)
MARK HEGGEN (American, born 1982)
DEMETRI DETSARIDIS (American, born 1975)
JESEN FAGERNESS (American, born 1973)
MIKE ESSL (American, born 1974)
CHRISTIAN SVANES KOLDING (Danish, born 1969)
Helix
2010
Paper



DAVID MCCANDLESS (British, born 1971)
INFORMATION IS BEAUTIFUL (UK, est. 2009)
Hierarchy of Digital Distractions
2009
Illustrator software









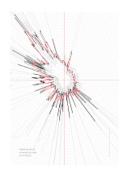




GREG MCINERNY (British, born 1977)
MICROSOFT RESEARCH CAMBRIDGE (UK, est. 1997)
STEFANIE POSAVEC (American, born 1981)
(En)tangled Word Bank
2009
C++, R, Processing, and Illustrator software



CHRISTIEN MEINDERTSMA (Dutch, born 1980)
JULIE JOLIAT (Swiss, born 1979)
PIG 05049
2006
Offset lithography and plastic
7 11/16 x 5 7/8 x 1 9/16" (19.5 x 15 x 4 cm)



MAYO NISSEN (German, born 1986)
COPENHAGEN INSTITUTE OF INTERACTION DESIGN (Denmark, est. 2007)
Visualising Household Power Consumption
2009
Processing software



MICHIKO NITTA (Japanese, born 1978)
DESIGN INTERACTIONS DEPARTMENT (est. 1989)
ROYAL COLLEGE OF ART (UK, est. 1837)
Hyperreal Everyday Life
2006
Headphones, polypropylene, paint, and glue
7 7/8 x 5 7/8 x 5 7/8" (20 x 15 x 15 cm)



SONER OZENC (Turkish, born 1980) El Sajjadah 2005 Electroluminescent sheet 27 9/16 x 47 1/4" (70 x 120 cm)



JASON ROHRER (American, born 1977)

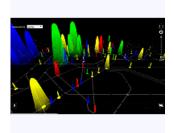
Passage

2008

SDL, GNU Compiler Collection, GNU Emacs, mtPaint, CVS, and MinGW-MSYS software



FRANK WARREN (American, born 1964) PostSecret 2004



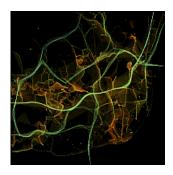
TOBY BARNES (British, born 1973)
MATT WATKINS (British, born 1973)
MUDLARK PRODUCTION COMPANY (UK, est. 2009)
Chromaroma
2010
Illustrator and Flash software and Advanced Wireless Services (AWS) spectrum band



JEROEN BEEKMANS (Dutch, born 1985) JOOP DE BOER (Dutch, born 1978) GOLFSTROMEN (The Netherlands, est. 2007) Gentrification Battlefield 2010 After Effects software



AARON STRAUP COPE (Canadian and American, born Canada 1971) STAMEN DESIGN (USA, est. 2001) prettymaps 2010 Polymaps, Mapnik, and Tilestache software



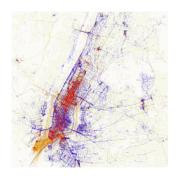
PEDRO MIGUEL CRUZ (Portuguese, born 1985)
PENOUSAL MACHADO (Portuguese, born 1970)
CENTRE FOR INFORMATICS AND SYSTEMS (est. 1991)
UNIVERSITY OF COIMBRA (Portugal, est. 1290)
JOÃO BICKER (Portuguese, born 1961)
FERRAND, BICKER & ASSOCIADOS (Portugal, est. 1998)
Visualizing Lisbon's Traffic
2009
Processing software



TIM EDLER (German, born 1965)
JAN EDLER (German, born 1970)
REALITIES:UNITED (Germany, est. 2000)
BIX Communicative Display Skin
2002
Plexiglas, wood, steel, flourescent light tube, lighting control electronics and micro controller
31 1/2 x 43 1/2 x 11 3/4" (80 x 110.5 x 29.8 cm)



ELECTRONIC INK (USA and UK, est. 1990)
911 Command Center Radio Control Application
2006
Creative Suite, Flash, and Windows Presentation Foundation software

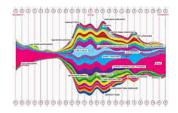


ERIC FISCHER (American, born 1973)

Locals and Tourists

2010

Perl, Ghostscript, Flickr API, and Picasa API software



WESLEY GRUBBS (American, born 1976)
MLADEN BALOG (Croatian, born 1973)
PITCH INTERACTIVE (USA, est. 2007)
What a Hundred Million Calls to 311 Reveal About New York
2010
Illustrator and Processing software



ALEX KALMAN (American, born 1985)
ALEX RICKARD (American, born 1985)
IGAL NASSIMA (Turkish, born 1980)
MYBLOCKNYC LLC (USA, est. 2008)
MyBlockNYC.com
2011
Custom software



ANDY LONDON (American, born 1968) CAROLYN LONDON (American, born 1972) LONDON SQUARED (USA, est. 1999) The Lost Tribes of New York City 2009 Video (3:00 min.)



MICHAL MIGURSKI (Polish, born 1977)
STAMEN DESIGN (USA, est. 2001)
Walking Papers
2009
Python, VLFeat SIFT, PHP, FPDF, Modest Maps, GDAL, and OpenStreetMap
Potlatch software



MAYO NISSEN (German, born 1986) COPENHAGEN INSTITUTE OF INTERACTION DESIGN (Denmark, est. 2007) City Tickets 2010



POKE (UK, est. 2001)

BakerTweet

2009

Acrylic, aluminum, Arduino board, WiFI shield and custom software

9 13/16 x 3 15/16 x 3 15/16" (25 x 10 x 10 cm)



EMILY READ (British, born 1982) CHEN HSU (Taiwanese, born 1982) Homeless City Guide 2007 Illustrator software



EVAN ROTH (American, born 1978) *Graffiti Taxonomy : New York* 2011 Screenprint 39 3/8 x 39 3/8" (100 x 100 cm)



EVAN ROTH (American, born 1978) *Graffiti Taxonomy: Paris* 2011 Screenprint 39 3/8 x 39 3/8" (100 x 100 cm)



JACK SCHULZE (British, born 1976)
JAMES KING (British, born 1982)
CAMPBELL ORME (British, born 1982)
BERG (UK, est. 2005)
Here & There
2009
Offset lithograph
39 3/8 x 27 9/16" (100 x 70 cm)



DANIEL SOLTIS (American, born 1975)
TINKER (UK, est. 2007)
RUSSELL DAVIES (British, born 1966)
The Big Red Button
2010
ABS, PET, industrial foot switch and electronics
4 x 3 3/4" (10.2 x 9.5 cm)



NAOKI TERADA (Japanese, born 1967)
KENICHI HIRATE (Japanese, born 1980)
TERADA DESIGN (Japan, est. 2003)
ALEXANDER REEDER (American, born 1978)
NAO TOKUI (Japanese, born 1976)
TAEJI SAWAI (Japanese, born 1978)
QOSMO, INC. (Japan, est. 2009)
IZUMI OKAYASU (Japanese, born 1972)
IZUMI OKAYASU LIGHTING DESIGN (Japan, est. 2005)
N Building Facade Panel
2009
Glass, ceramic print, and Illustrator, Photoshop, Vectorworks, Barcode Robo, XCode, and Logic Pro software
66 15/16 x 47 1/4 x 59 1/16" (170 x 120 x 150 cm)



SISSEL TOLAAS (Norwegian, born 1962)

Berlin City Smell Research

2004

Glass and smell simulation

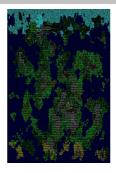
Each: 5 7/8 x 7 1/16 x 2 3/8" (15 x 18 x 6 cm)



CHRISTIAN ZÖLLNER (German, born 1981)
PATRICK TOBIAS FISCHER (German, born 1980)
THILO HOFFMANN (German, born 1980)
SEBASTIAN PIATZA (German, born 1985)
VR/URBAN (Germany, est. 2008)
SMSlingshot
2009
High frequency radio, Arduino board, laser, batteries, plywoo

High frequency radio, Arduino board, laser, batteries, plywood, and ash wood 14 3/16 x 8 1/4 x 1 9/16" (36 x 21 x 4 cm)

06_Worlds



TARN ADAMS (American, born 1978)
ZACH ADAMS (American, born 1975)
BAY 12 GAMES (USA, est. 2000)
Dwarf Fortress
2006
FreeType fonts and C/C++, Visual C, g++, FMOD, and SDL software



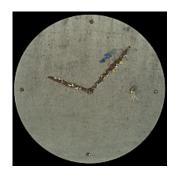
JON ARDERN (British, born 1978) ANAB JAIN (Indian, born 1976) SUPERFLUX (UK and India, est. 2009) The 5th Dimensional Camera 2010 Steel, Perspex, timer display, and LCD 41 5/16 x 32 5/16" (104.9 x 82 cm)



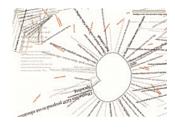
AREA/CODE (USA, est. 2005) Sharkrunners 2007 Custom Software



MAARTEN BAAS (Dutch, born Germany 1978) *AnalogDigital* 2009 Video (720:00 min.)



MAARTEN BAAS (Dutch, born Germany 1978) Sweeper's Clock 2009 Video (720:00 min.)



BRENDAN DAWES (British, born 1966)

Doodlebuzz

2008

Flash and HTML software



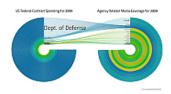
DILLER SCOFIDIO + RENFRO (USA, est. 1979)
LAURA KURGAN (South African, born 1961)
BEN RUBIN (American, born 1964)
MARK HANSEN (American, born 1964)
STEWART SMITH (American, born 1981)
ROBERT GERARD PIETRUSKO (American, born 1979)
Exit
2008



NICKY GIBSON (British, born 1977)
JULIE BARNES (South African, born 1979)
MARIUS WATZ (Nowegian, born 1973)
REX CROWLE (British, born 1977)
CAROLINE BUTTERWORTH (British, born 1978)
DEREK MCKENNA (New Zealander, born 1972)
ANDREW KNOTTY (Australian, born 1975)
NICK RYAN (British, born 1974)
ALEX LIGHT (British, born 1977)
POKE (UK, est. 2001)
Good Things Should Never End
2007
Flash and Ruby on Rails software



WESLEY GRUBBS (American, born 1976)
NICHOLAS YAHNKE (American, born 1988)
PITCH INTERACTIVE (USA, est. 2007)
2008 Presidential Candidate Donations: McCain vs. Obama
2008
Processing software



WESLEY GRUBBS (American, born 1976)
NICHOLAS YAHNKE (American, born 1988)
PITCH INTERACTIVE (USA, est. 2007)
US Federal Contract Spending in 2009 vs. Agency-Related Media Coverage
2010
Processing software



ERIK HERSMAN (American, born 1975)
DAVID KOBIA (Kenyan, born 1978)
ORY OKOLLOH (Kenyan, born 1975)
JULIANA ROTICH (Kenyan, born 1977)
Ushahidi
2008
Lunix, Apache, PHP, MySQL, Kohana Framework, jQuery, and FrontlineSMS software



BERNHARD HOPFENGARTNER (German, born 1982)

Hello World!

2006

Wheat field
6299 3/16 x 6299 3/16" (16000 x 16000 cm)



JODY HUDSON-POWELL (British, born 1979)
LUKE POWELL (British, born 1976)
HUDSON POWELL (UK, est. 2005)
JOEL GETHIN LEWIS (British, born 1980)
JEAN-GABRIEL BECKER (French, born 1975)
Hungry Hungry Eat Head
2009
openFrameworks software



MASA INAKAGE (Japanese, born 1960)
YU UCHIDA (Japanese, born 1984)
MAMI NAITO (Japanese, born 1986)
SHIHO HIRAYAMA (Japanese, born 1986)
ATSUSHI NISHIO (Japanese, born 1987)
GRADUATE SCHOOL OF MEDIA DESIGN (est. 2008)
KEIO UNIVERSITY (Japan, est. 1858)
Kageo
2011
Projector, camera, PC, acrylic board, wooden table, spotlight, and Director MX and TTC-Pro Xtra software



LINDA KOSTOWSKI (German, born 1980)
SASCHA POHFLEPP (German, born 1978)

Export to World
2007
Ink on Paper
Bubba gum machine: 41 3/4 x 13 3/4 x 13 3/4" (106 x 35 x 35 cm)
Old television: 12 3/16 x 19 5/16 x 7 5/16" (31 x 49 x 18.5 cm)



MEDIA MOLECULE (UK, est. 2006)

LittleBigPlanet

2006

3ds Max, Photoshop, and custom software



ALEX METCALF (British, born 1980)
DESIGN PRODUCTS DEPARTMENT (est. 1999)
ROYAL COLLEGE OF ART (UK, est. 1837)
Tree Listening
2008

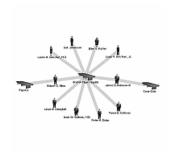


JOON MOON (South Korean, born 1982)
MFA DESIGN & TECHNOLOGY (est. 1997)
PARSONS THE NEW SCHOOL FOR DESIGN (USA, est. 1896)
Augmented Shadow
2010

Aluminum, MDF, acrylic, mirror, rear-projection screen, computer, projector, IR LED, IR camera, fan, power supply, and C++, openGL, openFrameworks, and ARToolKit software



LOUISE O'CONNOR (British, born 1982)
DESIGN INTERACTIONS DEPARTMENT (est. 1989)
ROYAL COLLEGE OF ART (UK, est. 1837)
Walk the Solar System
2010
Digital prints
8 x 12" (20.3 x 30.5 cm)



JOSH ON (New Zealander, born 1972)
FUTUREFARMERS (USA, est. 1995)
They Rule
2004
Photoshop, 3ds Max, Flash, Flash Builder, Dreamweaver, Notepad, Eclipse, and Blender software



MARC OWENS (British, born 1982)

Avatar Machine

2008

Various materials and electronics



CARLO RATTI (Italian, born 1971)
ASSAF BIDERMAN (Israeli, born 1977)
DIETMAR OFFENHUBER (Austrian, born 1973)
DAVID LEE (American, born 1984)
JENNIFER DUNNAM (American, born 1982)
PAOLO PATELLI (Italian, born 1984)
AARON SIEGAL (American, born 1984)
E. ROON KANG (Korean, born 1980)
FRANCESCO PILLA (Italian, born 1980)
DOUGLAS ALBERT (American, born 1989)
SENSEABLE CITY LAB (est. 2003)
MASSACHUSETTS INSTITUTE OF TECHNOLOGY (USA, est. 1861)
Backtalk
2011
Processing and custom software



JASON ROHRER (American, born 1977)

Sleep Is Death

2010

OpenGL Library, SDL, GNU Compiler Collection, GNU Emacs, mtPaint, and MinGW-MSYS software



CAMILLE SCHERRER (Swiss, born 1984)
ÉCOLE CANTONALE D'ART DE LAUSANNE (ÉCAL) (Switzerland, est. 1821)
The Haunted Book
2007
Book and video of installation with desk lamp, camera, screen, computer, table, and Ferns custom software
8 1/16 x 5 11/16 x 9/16" (20.5 x 14.5 x 1.5 cm)



CAMILLE SCHERRER (Swiss, born 1984)
ÉCOLE CANTONALE D'ART DE LAUSANNE (ÉCAL) (Switzerland, est. 1821)
Le Monde des montagnes
2008
Book and video of installation with desk lamp, camera, screen, computer, table, and Ferns custom software
10 7/8 x 8 1/16 x 3/8" (27.7 x 20.5 x 1 cm)

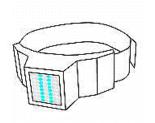


MARCOS WESKAMP (Argentine, born 1977)

Newsmap

2004

PHP, HTML, Javascript, Flash, and MySQL software



CHRISTOPHER WOEBKEN (German, born 1980)
KENICHI OKADA (Japanese, born 1980)
DESIGN INTERACTIONS DEPARTMENT (est. 1989)
ROYAL COLLEGE OF ART (UK, est. 1837)
Animal Superpowers Bird
ABS, electronics, Velcro, and nylon
2 x 6 x 3" (5.1 x 15.2 x 7.6 cm)



CHRISTOPHER WOEBKEN (German, born 1980)
KENICHI OKADA (Japanese, born 1980)
DESIGN INTERACTIONS DEPARTMENT (est. 1989)
ROYAL COLLEGE OF ART (UK, est. 1837)
Animal Superpowers Giraffe
MDF, mirrors, and voice changer
18 x 9 x 9" (45.7 x 22.9 x 22.9 cm)



CHRISTOPHER WOEBKEN (German, born 1980)
KENICHI OKADA (Japanese, born 1980)
DESIGN INTERACTIONS DEPARTMENT (est. 1989)
ROYAL COLLEGE OF ART (UK, est. 1837)
Animal Superpowers Ant
2008
Fiberglass, virtual-reality glasses, and microscopes

Fiberglass, virtual-reality glasses, and microscopes Ant helmet: 9 x 12 x 8" (22.9 x 30.5 x 20.3 cm) Ant gloves: 4 x 6 x 8" (10.2 x 15.2 x 20.3 cm)

07_Double Entendre



KATRIN BAUMGARTEN (German, born 1985)
INNOVATION DESIGN ENGINEERING DEPARTMENT (est. 1980)
ROYAL COLLEGE OF ART (UK, est. 1837)
Disgusted Objects
2010
Wood, silicone, and electronics
1 3/16 x 4 3/4 x 2 3/8" (3 x 12 x 6 cm)



HENRY CHU (Chinese, born Hong Kong 1976)
PILL AND PILLOW (Hong Kong, est. 2004)
Squiggle
2010
openFrameworks software



DAN COLLIER (British, born 1986)

Typographic Links
2007

Paper and thread
7 1/2 x 7 1/2 x 5/16" (19 x 19 x 0.8 cm)



BRIAN CRABTREE (American, born 1980)
KELLI CAIN (American, born 1979)
monome
2010
Aluminum, silicone, steel, and circuitry
6 x 6 x 1" (15.2 x 15.2 x 2.5 cm)



KONSTANTIN DATZ (German, born 1988)

Rubik's Cube for the Blind

2010

ABS and polystyrene

2 3/8 x 2 3/8 x 2 3/8" (6 x 6 x 6 cm)



DESIGN INCUBATION CENTRE (est. 2006)
NATIONAL UNIVERSITY OF SINGAPORE (Singapore, est. 1980)
Touch Hear
2008



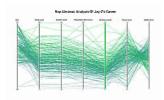
JEAN-LOUIS FRECHIN (French, born 1962)
UROS PETREVSKI (Serbian, born 1981)
NODESIGN.NET (France, est. 2001)
Wablog
2008
ABS, Lycra, Arduino board, camera, proximity sensors, and Java and C++
software
15 3/4 x 2 15/16 x 1 3/8" (40 x 7.5 x 3.5 cm)



JEAN-LOUIS FRECHIN (French, born 1962) UROS PETREVSKI (Serbian, born 1981) NODESIGN.NET (France, est. 2001) FREDERIC BEVILACQUA (Swiss, born 1967) NORBERT SCHNELL (German, born 1967) NICHOLAS RASAMIMANANA (French, born 1978) EMMANUEL FLÉTY (French, born 1975) CÔME MAESTRACCI (French, born 1987) IRCAM (France, est. 1977) FABRICE GUÉDY (French, born 1961) ATELIER DES FEUILLANTINES (France, est. 1995) BERNARD GARABÉDIAN (French, born 1975) DA FACT (France, est. 2002) DOMINIQUE FOBER (French, born 1957) GRAME (France, est. 1992) MO musical objects from the Interlude project 2010 ABS, printed circuit board, and lithium-ion battery



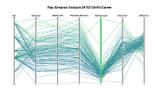
JOHAN HALIN (Finnish, born 1983)
AB PARASOL OY (Finland, est. 2007)
Kontrol
2010
Xcode, cocos2d, Ableton Live, and Photoshop software



TAHIR HEMPHILL (American, born 1972)

Rap Almanac Visualization of Jay-Z's Career from Hip-Hop Word Count
2010

Digital Print
24 x 40" (61 x 101.6 cm)



TAHIR HEMPHILL (American, born 1972) Rap Almanac Visualization of 50 Cent's Career from Hip-Hop Word Count 2010 Digital print 24×40 " (61 x 101.6 cm)



MARGUERITE HUMEAU (French, born 1986)
DESIGN INTERACTIONS DEPARTMENT (est. 1989)
ROYAL COLLEGE OF ART (UK, est. 1837)
Lucy from the series Back, Herebelow Formidable (the rebirth of prehistoric creatures)
2011
SLA resin, acrylic, silicone, rubber, solenoid valve, air compressor, and audio



SHIGERU ISHITSUKA (Japanese, born 1975)
MEGAHOUSE CORPORATION (Japan, est. 1962)
MISAKO KIRIGAYA (Japanese, born 1985)
BANDAI (Japan, est. 1950)
Mojibakeru
2010
ABS
Each: 2 x 2 x 7/16" (5.1 x 5.1 x 1.1 cm)



TOSHIO IWAI (Japanese, born 1962) TENORI-ON 2004 ABS, aluminum, LEDs, and electronics 8 1/16 x 8 1/16 x 1 5/16" (20.5 x 20.5 x 3.4 cm)



AGATHE JACQUILLAT (French, born 1975)
TOMI VOLLAUSCHEK (Austrian, born 1973)
FL@33 (UK, est. 2001)
bzzzpeek
2002
HTML and Flash software



MATT KENYON (American, born 1977)
DOUGLAS EASTERLY (American, born 1968)
SWAMP (USA, est. 1999)
Notepad
2007
Ink on paper
8 1/2 x 11 x 13/16" (21.6 x 28 x 2 cm)



JOHAN LIDEN (Swedish, born 1974)
OLIVIER GRÉGOIRE (French, born 1983)
ARULIDEN (USA, est. 2006)
Check Mate
2009
Aluminum, MDF, and walnut veneer
19 11/16 x 19 11/16 x 2 1/8" (50 x 50 x 5.4 cm)



CHIE MITSUYAMA (Japanese, born 1977)
GINGHAMI CO. (Japan, est. 2008) *Kaoiro*2009
Rubber, wood, and steel
1 5/16 x 1 1/16 x 3 15/16" (3.4 x 2.7 x 10 cm)



DANIELLE PECORA (American, born 1979)
INDUSTRIAL DESIGN DEPARTMENT (est. 1934)
PRATT INSTITUTE (USA, est. 1887)
be-B Braille Education Ball
2010
Gypsum, resin, magnets, chipboard, and paint
6 1/2" (16.5 cm)



SPUTNIKO! (British and Japanese, born Japan 1985)
DESIGN INTERACTIONS DEPARTMENT (est. 1989)
ROYAL COLLEGE OF ART (UK, est. 1837)
Crowbot Jenny
2010
Polystyrene, acrylic, Arduino board, speaker, and amplifier
8 1/4 x 23 5/8 x 3 15/16" (21 x 60 x 10 cm)



SPUTNIKO! (British and Japanese, born Japan 1985)
DESIGN INTERACTIONS DEPARTMENT (est. 1989)
ROYAL COLLEGE OF ART (UK, est. 1837)
Menstruation Machine - Takashi's Take
2010
Aluminum, acrylic, and electronics
11 7/16 x 13 3/4 x 13 3/8" (29 x 35 x 34 cm)



STEPHEN SPYROPOULOS (Greek and American, born USA 1980)
THEODORE SPYROPOULOS (Greek and American, born USA 1976)
MINIMAFORMS (USA and UK, est. 2002)
Becoming Animal
2007
Perspex, neoprene, rubber, wood, silkscreen, piano wire, and electroluminescent sheets



JAAKKO TUOMIVAARA (Finnish, born 1977)
COMMUNICATION ART & DESIGN DEPARTMENT (est. 1999)
ROYAL COLLEGE OF ART (UK, est. 1837)
Hide & See
2010
OmniOutliner, Illustrator, Photoshop, AfterEffects, TextMate, BluePhoneElite, and custom software
18 5/16 x 15 1/4 x 2 15/16" (46.5 x 38.7 x 7.5 cm)



MAX WEISEL (American, born 1991)
Soundrop
2010
Xcode software and iOS software development kit

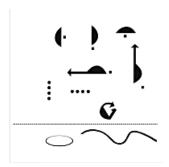


CHRISTOPHER WOEBKEN (German, born 1980)
NATALIE JEREMIJENKO (Australian, born 1966)
ENVIRONMENTAL HEALTH CLINIC (est. 2007)
STEINHARDT SCHOOL OF CULTURE, EDUCATION, AND HUMAN DEVELOPMENT (est. 1890)
NEW YORK UNIVERSITY (USA, est. 1831)
Bat Billboard
2008



SUSAN WOOLF (South African, born 1949)

Taxi Hand Signs: Shape Lingo for Blind People (BW Prints)
Inkjet on paper
16 1/2 x 16 1/2" (41.9 x 41.9 cm)



SUSAN WOOLF (South African, born 1949)
DEPARTMENT OF HUMANITIES (est. 2001)
UNIVERSITY OF WITSWATERSRAND (South Africa, est. 1896)
Taxi Hand Signs: Shape Lingo for Blind People (Touch Teasers)
2010

Embossed paper

Each: 11 x 11" (27.9 x 27.9 cm)