

Design and the Elastic Mind | Exhibition Checklist

0 INTRO

Genomic Cartography: Chromosome 18. 2001

Ben Fry (American, born 1975)

Aesthetics + Computation Group (est. 1996),

MIT Media Laboratory (USA, est. 1980)

Processing software

Courtesy Ben Fry

Image by Ben Fry

Hektor spray-paint output device. Prototype. 2002-ongoing

Jürg Lehni (Swiss, born 1978)

Uli Franke (German, born 1978)

École cantonale d'art de Lausanne (écal) (Switzerland, est. 1821)

Stepper motor, toothed belts, aluminum casing, spray can, suitcase, custom-made electronics, and Scriptographer software

Lent by Jürg Lehni and Uli Franke

Expanding Helicoid. 1998

Chuck Hoberman (American, born 1956)

Hoberman Associates, Inc. (USA, est. 1990)

Anodized aluminum, stainless steel, and cable frame

Lent by Chuck Hoberman

01 NANO

Origami Compositions. 2002-07

Robert J. Lang (American, born 1961)

Grizzly Bear, opus 433: Korean Hanji paper; Bull Moose, opus 413: Korean Hanji paper; Fiddler Crab, opus 446: origamido paper; Snack Time, opus 527: Hiromi paper

Lent by Robert J. Lang

Origami Crease Patterns. 1998-2006

Robert J. Lang (American, born 1961)

Courtesy Robert J. Lang

Images by Robert J. Lang

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Origami TreeMaker software. 1990-2006

Robert J. Lang (American, born 1961)

THINK Pascal, THINK Class Library, CodeWarrior, Xcode, and GCC software

Courtesy Robert J. Lang

Images by Robert J. Lang

Origami Simulation software. 1990-92

Robert J. Lang (American, born 1961)

THINK Pascal and THINK Class Library software

Courtesy Robert J. Lang

Images by Robert J. Lang

Origami models of the Fresnel lens for the Eyeglass Space Telescope. 1998-2005

Robert J. Lang (American, born 1961)

Roderick Hyde (American, born 1952),

Sham Dixit (American, born 1955), and

Arnie Heller (American, born 1948)

Lawrence Livermore National Laboratory (USA, est. 1952)

Watercolor paper

Lent by Robert J. Lang

Credit is given to the University of California, Lawrence Livermore National Laboratory, and the Department of Energy under whose auspices the work was performed, and Editor Arnie Heller

Computational Origami. 2003-07

Erik Demaine (American, born Canada 1981), and

Martin Demaine (American, born 1942)

Massachusetts Institute of Technology (USA, est. 1861)

Elephant hide paper

Lent by Erik Demaine and Martin Demaine

DNA origami. Models. 2004-05

Paul W. K. Rothemund (American, born 1972)

California Institute of Technology (USA, est. 1891)

Laser-etched glass

Courtesy Paul W. K. Rothemund

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Micro-molded part from a deep-etched silicon mold. 2007

Philips Research Laboratories (The Netherlands, est. 1891)

FEI Company (USA, est. 1971)

Polymer, 1,250x magnification on a FEI NovaNanoSEM600 microscope, horizontal field width: 250 micron

Courtesy Frans Holthuysen, Philips Research Laboratories, with assistance from FEI Company

Image by Frans Holthuysen

Titanium oxide crystallite during the deposition of a wet-chemical layer. 2002

Philips Research Laboratories (The Netherlands, est. 1891)

FEI Company (USA, est. 1971)

2,500x magnification on a FEI scanning electron microscope, horizontal field width: 125 micron

Courtesy Frans Holthuysen, Philips Research Laboratories, with assistance from FEI Company

Image by Frans Holthuysen

Bad adhesion of metallization. 2007

Philips Research Laboratories (The Netherlands, est. 1891)

FEI Company (USA, est. 1971)

Metal thin film on silicon, 40.000x magnification on a FEI NovaNanoSEM600 microscope, horizontal field width: 7.5 micron

Courtesy Frans Holthuysen, Philips Research Laboratories, with assistance from FEI Company

Image by Frans Holthuysen

Plasma etching done by SF6 plasma in the so-called Bosch process. 2006

Philips Research Laboratories (The Netherlands, est. 1891)

FEI Company (USA, est. 1971)

Silicon, 20.000x magnification on a Philips XL40FEG microscope, horizontal field width: 24 μm

Courtesy Frans Holthuysen, Philips Research Laboratories, with assistance from FEI Company

Image by Frans Holthuysen

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Rules of Six. 2007

Benjamin Aranda (American, born 1973),

Chris Lasch (American, born 1972),

Clay Coffey (American, born 1981),

Kamau Amu Patton (American, born 1972), and

Ron Rosenman (American, born 1975)of

Aranda/Lasch (USA, est. 2003)

Matthew L. Scullin (USA, born 1983)of

Department of Materials Science and Engineering, University of California

(USA, est. 1868)and

Lawrence Berkeley National Laboratory (USA, est. 1931)

Processing and Rhino3D software; panels: high-density foam and hydrocal

Manufactured by Situ Studio, USA (2008)

Commissioned by The Museum of Modern Art in occasion of the exhibition Design and the Elastic Mind

Additional support by the Product-Architecture Lab at the Stevens Institute of Technology

Microphotography: "nanotubes 2". 2007

Felice Frankel (American, born 1945), of

Harvard University (USA, est. 1636)

Nanotubes: 1 nanometer

Lent by Felice Frankel

Measurement of the Quantum of Thermal Conductance. 1996-2000

Keith Schwab (American, born 1968), of

Department of Physics,Cornell University (USA, est. 1865)

Michael Roukes (American, born 1952), of

Department of Physics,California Institute of Technology (USA, est. 1891)

Nanofabricated from submicron-thin films of silicon nitride, gold, niobium, and silicon oxide

Courtesy Keith Schwab, Department of Physics, Cornell University, and Michael

Roukes, Department of Physics, California Institute of Technology

Image by Keith Schwab

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LithoParticle Dispersions: Colloidal Alphabet Soup. 2006

Thomas G. Mason (American, born 1968), and

Carlos J. Hernandez (American, born 1979)

Department of Chemistry and Biochemistry and the California NanoSystems Institute (est. 2000),

University of California, Los Angeles (USA, est. 1919)

Polymer microparticles containing fluorescent dyes and dispersed in water

Manufactured by University of California, Los Angeles, USA, est. 1919 (, in conjunction with) (2006)

Colloidia LLC, USA (2006)

Courtesy Colloidia LLC

LithoParticle and Colloidia are trademarks of Colloidia LLC

Image by Thomas G. Mason and Carlos J. Hernandez

Typosperma. Concept. 2007

Oded Ezer (Israeli, born 1972)

Macromedia FreeHand and Rhino software

Courtesy Oded Ezer

Image by Amir Lipsicas

No Robots Please!. 2007

Alan Outten (British, born 1966)

Design Interactions Department (est. 1989),

Royal College of Art (UK, est. 1837)

The Apple Phone: Hannah Tobin (British, born 1998),

Roisin-Flora Culligan-Hughes (British, born 1998), and

Roisin Sheahan (British, born 1997)

Super-Human Mermaid: Gagandeep Chawla (British, born 1996),

Maddi Neye Swift (British, born 1996), and

Amara Hameed (British, born 1996)

Random Squiggle: Sophia Ivanetic (British, born 1996)

Shape Shifting Building: Jessica Wallace (British, born 1996), and

Mateusz Iwaniec (British, born 1998)

Courtesy Alan Outten

Images by Alan Outten

Clonable DNA Octahedron. 2004

William M. Shih (American, born 1972)

Biomolecular Nanotechnology Group (est. 2004),

Dana-Farber Cancer Research Institute (est. 1947),

Harvard Medical School (USA, est. 1782)

Plaster model generated on Z-Core 406 3D printer

Lent by William M. Shih, Harvard Medical School

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Microphotography: "Charlie's nanowires". 2008
**Felice Frankel (American, born 1945), of
Harvard University (USA, est. 1636)**
Nanowires: 2-4 nanometers

Lent by Felice Frankel

Snack Time, opus 5. 2007
Robert J. Lang (American, born 1961)
Hiromi paper

Lent by Gary Cornell

01 NANO + 03 DESIGN FOR DEBATE

The Flower from the Fossils from a Nanotech Future project. Model. 2006
James King (British, born 1982)
**Design Interactions Department (est. 1989),
Royal College of Art (UK, est. 1837)**
Polyamide resin

Lent by James King

The Chalk from the Fossils from a Nanotech Future project. Model. 2006
James King (British, born 1982)
**Design Interactions Department (est. 1989),
Royal College of Art (UK, est. 1837)**
Chalk

Lent by James King

The Comb from the Fossils from a Nanotech Future project. Model. 2006
James King (British, born 1982)
**Design Interactions Department (est. 1989),
Royal College of Art (UK, est. 1837)**
Cardboard

Lent by James King

The Pattern from the Fossils from a Nanotech Future project. Model. 2006
James King (British, born 1982)
**Design Interactions Department (est. 1989),
Royal College of Art (UK, est. 1837)**
Crushed chalk

Lent by James King

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02 NATURE

Engine mount production component. 1998

Lothar Harzheim (German, born 1956)

Adam Opel GmbH (Germany, est. 1862)

Aluminum

Manufactured by Adam Opel GmbH, Germany, est. 1862 (1998)

Lent by Adam Opel GmbH

Nano-Bio Kits: Biological Fuel Cell Kit. 2003-2006

Institute of Bioengineering and Nanotechnology (Singapore, est. 2003)

Blue Beetle Design (Singapore, est. 2003)

Acrylic fuel cell cartridge, proprietary nanostructured catalyst-immobilized electrodes, polymer membrane, resistors, wires, and steel

Manufactured by Institute of Bioengineering and Nanotechnology, Singapore, est. 2003 (2006)

Lent by Institute of Bioengineering and Nanotechnology, Singapore

Nano-Bio Kits: Thermo-responsive Hydrogel Kit. 2003-2006

Institute of Bioengineering and Nanotechnology (Singapore, est. 2003)

Blue Beetle Design (Singapore, est. 2003)

Thermo-responsive hydrogel polymer in powder form, reagents, and polystyrene plastic

Manufactured by Institute of Bioengineering and Nanotechnology, Singapore, est. 2003 (2006)

Lent by Institute of Bioengineering and Nanotechnology, Singapore

Nano-Bio Kits: Dielectrophoresis Chip Kit. 2003-2006

Institute of Bioengineering and Nanotechnology (Singapore, est. 2003)

Blue Beetle Design (Singapore, est. 2003)

Glass slides etched with microchannels, glass slides coated with electrode metal layer and photoresist film, yeast cells, acrylic plastic, and aluminum

Manufactured by Institute of Bioengineering and Nanotechnology, Singapore, est. 2003 (2006)

Lent by Institute of Bioengineering and Nanotechnology, Singapore

Bone Chair. 2006

Joris Laarman (Dutch, born 1979)

Aluminum

Manufactured by Joris Laarman Studio, The Netherlands, est. 2006 (2007)

Lent by Friedman Benda

Image by Opel GmbH

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Bone Chaise. 2006

Joris Laarman (Dutch, born 1979)

Clear UV-resistant polyurethane rubber

Manufactured by Joris Laarman Studio, The Netherlands, est. 2006 (2007)

Lent by Friedman Benda

Image by Opel GmbH

Splight table lamp. Prototype. 2005

matali crasset (French, born 1965)

Steel and glass

Lent by matali crasset

Materialecology. 2007

Neri Oxman (Israeli, born USA 1976)

Massachusetts Institute of Technology (USA, est. 1861)

Z Corporation (USA)

Subterrain: Coded FEA, Rhinoceros, and Generative Components software; CNC milled laminated oak and cherry wood

Monocoque: Rhinoceros and Generative Components software; full cure digital materials Vero White and Tango Black, acrylic based photopolymers, and plaster resin composite

Raycounting: Rhinoceros and Generative Components software; photo reactive liquid resin SL 7510 and nylon 12

Cartesian Wax: Rhinoceros and Generative Components software; ultra low viscosity urethane rubber, semi rigid polyurethane casting resin composite, and machinable wax

Lent by Neri Oxman

Sponsored by MIT Design Lab and Computation Group, MIT Department of Architecture, and Director's Grant from the Council for the Arts at MIT

Subterrain models sponsored by MIT

Monocoque models sponsored by Objet Geometries, Inc., Z Corporation, and MIT

Raycounting models sponsored by ARRK Product Development Group Ltd., Tangible Express, and MIT

Cartesian Wax models sponsored by MIT

Mercedes-Benz bionic car. Concept. 2005

Peter Pfeiffer (German, born 1943)

Daimler AG / Mercedes-Benz Design (Germany, est. 1998/1926)

Lent by Daimler AG

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Lily Impeller. Prototype. 1996

Jayden D. Harman (Australian, born 1949)

PAX Scientific, Inc. (USA, est. 1997)

Stainless steel

Manufactured by PAX Water Technologies, Inc., USA (2002)

Lent by PAX Scientific

Aqua_ray. Prototype. 2007

Rudolf Bannasch (German, born 1952), and

Leif Kniese (German, born 1968), of

EvoLogics GmbH (Germany, est. 2000)

Markus Fischer (German, born 1966), of

Festo AG & Co. KG Corporate Design (Germany, est. 1925)

Fiberglass-reinforced plastic, CURV polypropylene sheet, polyamide resin with elastane skin, and Torcman brushless motor

Prototype by EvoLogics GmbH, Germany, est. 2000

Lent by Festo AG & Co. KG

Airacuda. Prototype. 2006

Elias Maria Knubben (German, born 1975), and

Markus Fischer (German, born 1966), of

Festo AG & Co. KG Corporate Design (Germany, est. 1925)

Polyamide and silicone

Prototype by Festo AG & Co. KG Corporate Design, Germany, est. 1925

Lent by Festo AG & Co. KG

Air_ray. Prototype. 2007

Rainer Mugrauer (German, born 1968),

Günther Mugrauer (German, born 1959), and

Clemens Gebert (German, born 1963), of

Effekt-Technik GmbH (Germany, est. 1996)

Markus Fischer (German, born 1966), of

Festo AG & Co. KG Corporate Design (Germany, est. 1925)

Aluminum-vaporised PET foil, flapping-wing drive mechanism, and power supplies (1500 mAh LiPo accumulator cells)

Prototype by Effekt-Technik GmbH, Germany, est. 1996

Lent by Festo AG & Co. KG

SoftBot from the Biomimetic Soft-Bodied Robots project. Prototype. 2005-07

Barry A. Trimmer (British, born 1958)

Biomimetic Devices Laboratory (est. 2005),

Tufts University (USA, est. 1852)

Silicone elastomer and Nitinol shape-memory alloy

Lent by Dr. Barry A. Trimmer, Tufts University

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GROW. Prototype. 2005-ongoing

Samuel Cabot Cochran (American, born 1982), and

Benjamin Wheeler Howes (American, born 1983)

SMIT Sustainably Minded Interactive Technology, LLC (USA, est. 2005)

Thin film photovoltaics, piezoelectric generators, screen printed conductive ink encapsulated in ETFE fluoropolymer lamination, stainless steel, nylon, neoprene rubber, copper wire, and aluminum

Lent by SMIT, Sustainably Minded Interactive Technology, LLC

Sponsored by the National Collegiate Inventors and Innovators Alliance (NCIIA)

Dressing the Meat of Tomorrow. Model. 2006

James King (British, born 1982)

Design Interactions Department (est. 1989),

Royal College of Art (UK, est. 1837)

Plastisol (fiberglass reinforced polyester)

Lent by James King

Biojewellery. Prototypes. 2003-07

Tobie Kerridge (British, born 1975),

Nikki Stott (British, born 1977), and

Ian Thompson (British, born 1975)

Design Interactions Department (est. 1989)

Royal College of Art (UK, est. 1837)

Hydroxyapatite, tricalcium phosphate, and silver

Prototypes by Nikki Stott, British, born 1977

Lent by Tobie Kerridge, Nikki Stott, and Ian Thompson

The Pig Wings Project. Prototypes. 2000-01

Oron Catts (Australian, born Finland 1967),

Ionat Zurr (Australian, born UK 1970), and

Guy Ben-Ary (Australian, born USA 1967)

The Tissue Culture & Art Project hosted by SymbioticA, The Art and Science Collaborative Research Laboratory,

School of Anatomy and Human Biology, The University of Western Australia (Australia, est. 1996)

Pig mesenchymal cells (bone marrow stem cells) and PGA and P4HB biodegradable, bio-absorbable polymers

Lent by Oron Catts, Ionat Zurr, and Guy Ben-Ary, The Tissue Culture & Art Project hosted by SymbioticA, The Art and Science Collaborative Research Laboratory, School of Anatomy and Human Biology, The University of Western Australia

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Victimless Leather. Prototype. 2004

**Oron Catts (Australian, born Finland 1967), and
Ionat Zurr (Australian, born UK 1970)**

**The Tissue Culture & Art Project hosted by SymbioticA, The Art and Science
Collaborative Research Laboratory,
School of Anatomy and Human Biology, The University of Western Australia
(Australia, est. 1996)**

Biodegradable polymer, connective and bone cells, nutrient media, glassware, and peristaltic pump

Lent by Oron Catts and Ionat Zurr, The Tissue Culture & Art Project hosted by SymbioticA, The Art and Science Collaborative Research Laboratory, School of Anatomy and Human Biology, The University of Western Australia

The Honeycomb Vase "Made by Bees". Prototype. 2006

**Tomáš Gabzdil Libertíny (Slovak, born 1979)
Studio Libertiny (The Netherlands, est. 2006)**

Beeswax

Lent by Tomáš Gabzdil Libertíny

Lightweeds. 2006

Simon Heijdens (Dutch, born 1978)

Self-developed software

Lent by Simon Heijdens

Biowall. Prototype. 2006

**Rachel Wingfield (British, born 1978), and
Mathias Gmachl (Austrian, born 1974)**

Loop, pH (UK, est. 2003)

Fiberglass

Lent by Loop, pH

Lovebytes 2007 identity generator. 2007

**Matt Pyke (British, born 1975), of
Universal Everything (UK, est. 2004)
Karsten Schmidt (German, born 1975), of
toxi (UK, est. 2000)**

Processing software

Courtesy universaleverything.com

Image © Matt Pyke and Karsten Schmidt

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Solar Lampion. Prototype. 2004
Damian O'Sullivan (Irish, born 1969)
Polycarbonate and solar cells

Lent by Damian O'Sullivan

Flybot robotic fly. 2007
Robert J. Wood (American, born 1977)
Harvard Microrobotics Laboratory (est. 2006),
Harvard School of Engineering and Applied Science (USA, est. 1847)
Ultra high modulus carbon fiber reinforced cyanate ester resin, S2 glass fiber reinforced cyanate ester resin, lead zirconate titanate piezoelectric ceramic (with nickel electrodes), thin film polyimide, and thin film polyester

Lent by Harvard Microrobotics Lab: Robert Wood, Kyujin Cho, Michael Karpelson, Jessica Shang, Peter Whitney

Molecubes functional robots. 2003-04
Viktor Zykov (Russian, born 1979),
Stathis Mytilinaios (Greek, born 1980), and
Hod Lipson (Israeli, born 1967)
Computational Synthesis Lab (USA, est. 2001),
Cornell University (USA, est. 1865)
Somos 9120 epoxy photopolymer
Manufactured by ProtoCall, LCC, USA (2004)
Lent by Cornell University

03 DESIGN FOR DEBATE

Robot 1 from the Technological Dreams Series: no 1, Robots project. Model. 2007
Anthony Dunne (British, born 1964)and
Fiona Raby (British, born 1963)
Dunne & Raby (UK, est. 1994)
High-density foam

Lent by Dunne & Raby

Robot 2 from the Technological Dreams Series: no 1, Robots project. Model. 2007
Anthony Dunne (British, born 1964)and
Fiona Raby (British, born 1963)
Dunne & Raby (UK, est. 1994)
Starch and epoxy resin

Lent by Dunne & Raby

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Robot 3 from the Technological Dreams Series: no 1, Robots project. Model. 2007

Anthony Dunne (British, born 1964) and

Fiona Raby (British, born 1963)

Dunne & Raby (UK, est. 1994)

English oak and acrylic

Lent by Dunne & Raby

Robot 4 from the Technological Dreams Series: no 1, Robots project. Model. 2007

Anthony Dunne (British, born 1964) and

Fiona Raby (British, born 1963)

Dunne & Raby (UK, est. 1994)

English oak

Lent by Dunne & Raby

All the Robots. Video. 2007

Anthony Dunne (British, born 1964)

Fiona Raby (British, born 1963)

Dunne & Raby (UK, est. 1994)

Noam Toran (American, born 1975)

Courtesy Dunne & Raby

Object for Lonely Men. Video. 2001

Noam Toran (American, born 1975)

Courtesy Noam Toran

Chest Hair Curler from the Accessories for Lonely Men project. Model. 2001

Noam Toran (American, born 1975)

MDF Medium-density fibreboard, aluminum, and electronic components

Lent by Noam Toran

Cold Feet from the Accessories for Lonely Men project. Model. 2001

Noam Toran (American, born 1975)

MDF Medium-density fibreboard, aluminum, and electronic components

Lent by Noam Toran

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Hair Alarm Clock from the Accessories for Lonely Men project. Model. 2001

Noam Toran (American, born 1975)

MDF Medium-density fibreboard, aluminum, electronic components, and wig

Lent by Noam Toran

Heavy Breather from the Accessories for Lonely Men project. Model. 2001

Noam Toran (American, born 1975)

MDF Medium-density fibreboard, aluminum, and electronic components

Lent by Noam Toran

Plate Thrower from the Accessories for Lonely Men project. Model. 2001

Noam Toran (American, born 1975)

MDF Medium-density fibreboard, aluminum, electronic components, and plates

Lent by Noam Toran

Shared Cigarette from the Accessories for Lonely Men project. Model. 2001

Noam Toran (American, born 1975)

MDF Medium-density fibreboard, aluminum, electronic components, and cigarette

Lent by Noam Toran

Sheet Thief from the Accessories for Lonely Men project. Model. 2001

Noam Toran (American, born 1975)

MDF Medium-density fibreboard, aluminum, electronic components, and bedsheet

Lent by Noam Toran

Silhouette Light from the Accessories for Lonely Men project. Model. 2001

Noam Toran (American, born 1975)

MDF Medium-density fibreboard, aluminum, electronic components, and lightbulb

Lent by Noam Toran

ARK-INC. Concept. 2006

Jon Ardern (British, born 1978)

Design Interactions Department (est. 1989),

Royal College of Art (UK, est. 1837)

Lent by Jon Ardern

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Smoke Eater from the Utility Pets project. Prototype. 2003

Elio Caccavale (Italian, born 1975)

Polypropylene

Lent by Elio Caccavale Design Studio

Toy Communicator from the Utility Pets project. Prototype. 2003

Elio Caccavale (Italian, born 1975)

Polypropylene and rubber

Lent by Elio Caccavale Design Studio

Low-resolution Pig TV from the Utility Pets project. Prototype. 2003

Elio Caccavale (Italian, born 1975)

Polypropylene

Lent by Elio Caccavale Design Studio

Memento Service from the Utility Pets project. Prototype. 2003

Elio Caccavale (Italian, born 1975)

Polyurethane and pig snout

Lent by Elio Caccavale Design Studio

Comforting Device from the Utility Pets project. Prototype. 2003

Elio Caccavale (Italian, born 1975)

Polypropylene and pig snout

Lent by Elio Caccavale Design Studio

Genetic Trace: New Organs of Perception. Concept. 2006

Susana Soares (Portuguese, born 1977)

Design Interactions Department (est. 1989)

Royal College of Art (UK, est. 1837)

Acrylic nails and feathers

Courtesy Susana Soares

Images by Susana Soares

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Genetic Trace part two: Sniffing Others. Concept. 2007

Susana Soares (Portuguese, born 1977)

Design Interactions Department (est. 1989)

Royal College of Art (UK, est. 1837)

Linen, crochet, resin, polyester, foam, polyurethane, stereolithography (SLA) epoxy resin, rubber, silicone, copper, fimo, paper, and artificial hair

Lent by Susana Soares

Images by Susana Soares

Mushroom Growth Packaging from Made in Transit, a concept for sustained growth within the supply chain. Prototypes. 2007

Agata Jaworska (Canadian, born Poland 1979)

Design Academy Eindhoven (The Netherlands, est. 1947)

PET plastic, foam growth pad, and fake mushrooms

Lent by Agata Jaworska

New Sensual Interfaces. Concept and video. 2007

Christopher Woebken (German, born 1980)

Design Interactions Department (est. 1989),

Royal College of Art (UK, est. 1837)

Linseeds

Lent by Christopher Woebken

Pox Teddy. Model. 2007

Mikael Metthey (French, born 1983)

Design Interactions Department (est. 1989)

Royal College of Art (UK, est. 1837)

Acrylic and TinSil silicone mold rubber

Lent by Mikael Metthey

Nanotopia from the Future Farm project. Concept. 2006-07

Michael Burton (British, born 1977)

Design Interactions Department (est. 1989)

Royal College of Art (UK, est. 1837)

Human hair and prosthetics

Courtesy Michael Burton

Image by Michael Burton

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The Race. Concept. 2006-07

Michael Burton (British, born 1977)

Design Interactions Department (est. 1989)

Royal College of Art (UK, est. 1837)

Resin, silicone, wood, wire, hair, and praying mantis (taxidermy)

Lent by Michael Burton

Images by Michael Burton

Body Modification for Love project. Concept. 2005

Michiko Nitta (Japanese, born 1978)

Design Interactions Department (est. 1989)

Royal College of Art (UK, est. 1837)

Latex and acrylic paint

Courtesy Michiko Nitta

Images by Yann Gibelli

Animal Messaging Service from the Extreme Green Guerrillas project. Concept.
2006-07

Michiko Nitta (Japanese, born 1978)

Design Interactions Department (est. 1989)

Royal College of Art (UK, est. 1837)

Paper, ink, and acrylic

Lent by Michiko Nitta

Image by Michiko Nitta

Epidermits Interactive Pet from the Cautionary Visions project. Model. 2006

Stuart Karten (American, born 1957),

Steve Piorek (American, born 1974), and

Simon Sollberger (Swiss, born 1973)

Stuart Karten Design (USA, est. 1984)

Polyurethane elastomer, doll hair, acrylic ink, stainless steel, polyurethane, and urethane

Lent by Stuart Karten Design

Desire Management. Video. 2004-06

Noam Toran (American, born 1975)

Courtesy Noam Toran

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Risk Watch from the Do you want to replace the existing “normal”? project.
Prototype. 2007

**Michael Anastassiades (Cypriot, born 1967),
Anthony Dunne (British, born 1964), and
Fiona Raby (British, born 1963)**
Silicone, electronics, and MP3 player

Lent by Dunne & Raby, Michael Anastassiades

Statistical Clock from the Do you want to replace the existing “normal”? project.
Prototype. 2007

**Michael Anastassiades (Cypriot, born 1967),
Anthony Dunne (British, born 1964), and
Fiona Raby (British, born 1963)**
Reticulated foam, electronics, micro-controller, and wi-fi connection

Lent by Dunne & Raby, Michael Anastassiades

Perfect Alignment from the Do you want to replace the existing “normal”? project.
Prototype. 2007

**Michael Anastassiades (Cypriot, born 1967),
Anthony Dunne (British, born 1964), and
Fiona Raby (British, born 1963)**
English oak and pink RipStock fabric

Lent by Dunne & Raby, Michael Anastassiades

S.O.C.D (Sexual Obsessive Compulsive Disorder) from the Do you want to replace
the existing “normal”? project. Prototype. 2007

**Michael Anastassiades (Cypriot, born 1967),
Anthony Dunne (British, born 1964), and
Fiona Raby (British, born 1963)**
Steel, silicon, electronics, and computer

Lent by Dunne & Raby, Michael Anastassiades
S.O.C.D. video by Christopher Woebken

Necklace. 1995

**Ana Mir (Spanish, born 1969)
emiliana design studio (Spain, est. 1996)**
Cotton thread and human hair

Lent by Ana Mir, emiliana design studio

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Sweet Love. 2003
Ana Mir (Spanish, born 1969)
emiliana design studio (Spain, est. 1996)
Resin

Lent by Ana Mir, emiliana design studio

Chocolate Nipples. 1995-2003
Ana Mir (Spanish, born 1969)
emiliana design studio (Spain, est. 1996)
Resin
Produced by Enric Rovira (, Spain) (2003)
Lent by Ana Mir, emiliana design studio

04 FUTURE MORES

iBelieve lanyard for iPod Shuffle. 2005
Scott Wilson (American, born 1969)
ABS plastic
National Electronic, China (2005)
Lent by Scott Wilson

MyBio-reactor Cow. Prototype. 2005
Elio Caccavale (Italian, born 1975)
Fireproof nylon and polyester stuffing
Lent by Elio Caccavale Design Studio

MyBio Xenotransplant. Prototype. 2005
Elio Caccavale (Italian, born 1975)
Fireproof nylon and polyester stuffing
Lent by Elio Caccavale Design Studio

MyBio Spider Goat. Prototype. 2005
Elio Caccavale (Italian, born 1975)
Fireproof nylon and polyester stuffing
Lent by Elio Caccavale Design Studio

MyBio Bunny. Prototype. 2005
Elio Caccavale (Italian, born 1975)
Fireproof nylon and polyester stuffing
Lent by Elio Caccavale Design Studio

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MyBio Jellyfish. Prototype. 2005
Elio Caccavale (Italian, born 1975)
Fireproof nylon and polyester stuffing

Lent by Elio Caccavale Design Studio

Dummy-Tummy from the Future Families project. Prototype. 2007
Elio Caccavale (Italian, born 1975)
Polypropylene and latex

Lent by Elio Caccavale Design Studio

Fertilito Egg from the Future Families project. Prototype. 2007
Elio Caccavale (Italian, born 1975)
Reflective fabric and polyester stuffing

Lent by Elio Caccavale Design Studio

Fertilito Sperm from the Future Families project. Prototype. 2007
Elio Caccavale (Italian, born 1975)
Reflective fabric and polyester stuffing

Lent by Elio Caccavale Design Studio

Fertilito Tummy from the Future Families project. Prototype. 2007
Elio Caccavale (Italian, born 1975)
Fireproof nylon and polyester stuffing

Lent by Elio Caccavale Design Studio

AfterLife. Models. 2001-ongoing
James Auger (British, born 1970)
Jimmy Loizeau (British, born 1968)
Design Interactions Department (est. 1989)
Royal College of Art (UK, est. 1837)
Polycarbonate and aluminum

Lent by Auger-Loizeau

Digital Remains. Prototypes. 2006
Michele Gauler (German, born 1973)
Design Interactions Department (est. 1989)
Royal College of Art (UK, est. 1837)
Aluminum, wood, acrylic, and electronic media

Lent by Michele Gauler and Eyal Burstein, Beta Tank

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Doffing Headphone. Concept. 2006

Synnøve Fredericks (British, born 1983)

Central Saint Martins College of Art and Design (UK, est. 1989)

Bluetooth-powered headphones, brass, faux tortoise shell, and hand-carved English holly wood

Lent by Synnøve Fredericks

SoMo1 Electric Shock Mobile from the Social Mobiles project. Model. 2002

Crispin Jones (British, born 1974),

Graham Pullin (British, born 1964),

Anton Schubert (British, born 1968), and

Mat Hunter (British, born 1970)

IDEO London (UK, est. 1991)

Lime wood, steel, ABS plastic, and GSM phone

Lent by IDEO

SoMo2 Speaking Mobile from the Social Mobiles project. Model. 2002

Crispin Jones (British, born 1974),

Graham Pullin (British, born 1964),

Anton Schubert (British, born 1968), and

Mat Hunter (British, born 1970)

IDEO London (UK, est. 1991)

Lime wood, steel, ABS plastic, and GSM phone

Lent by IDEO

SoMo3 Musical Mobile from the Social Mobiles project. Model. 2002

Crispin Jones (British, born 1974),

Graham Pullin (British, born 1964),

Anton Schubert (British, born 1968), and

Mat Hunter (British, born 1970)

IDEO London (UK, est. 1991)

Lime wood, steel, ABS plastic, and GSM phone

Lent by IDEO

SoMo4 Knocking Mobile from the Social Mobiles project. Model. 2002

Crispin Jones (British, born 1974),

Graham Pullin (British, born 1964)

Anton Schubert (British, born 1968), and

Mat Hunter (British, born 1970)

IDEO London (UK, est. 1991)

Lime wood, steel, ABS plastic, and GSM phone

Lent by IDEO

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SoMo5 Catapult Mobile from the Social Mobiles project. Model. 2002

**Crispin Jones (British, born 1974),
Graham Pullin (British, born 1964),
Anton Schubert (British, born 1968), and
Mat Hunter (British, born 1970)
IDEO London (UK, est. 1991)**

Lime wood, steel, ABS plastic, and GSM phone

Lent by IDEO

Narco from the Analeptic project. Model. 2006

**Marie-Virginie Berbet (French, born 1979)
École nationale supérieure de création industrielle (ENSCI - Les Ateliers)
(France, est. 1982)**

Plexiglass and Styron polystyrene resin

Lent by Marie-Virginie Berbet
Prototype sponsored by Zyken and byVolta

Cyclo from the Analeptic project. Model. 2006

**Marie-Virginie Berbet (French, born 1979)
École nationale supérieure de création industrielle (ENSCI - Les Ateliers)
(France, est. 1982)**

Polyamide

Lent by Marie-Virginie Berbet
Prototype sponsored by Zyken and byVolta

Le Temps Blanc. Concept. 2006

**Julien Arnaud (French, born 1974),
with scientific consultant Alain Nicolas (French, born 1965)
École Supérieure Art & Design Saint-Étienne (ESADSE / Cité du Design)
(France, est. 1857)**

DuPont Corian, neon tubes, speakers, soundproof foam, MDF, aluminum, and polyethylene

Lent by Julien Arnaud

HULGER P*PHONE. 2005

**Nicolas Roope (British, born 1972) and
Sebastien Noel (French, born 1977)
Hulger (UK, est. 2004)**

Polycarbonate plastic, speaker, microphone, and wires

Manufactured by Hulger, UK, est. 2004 (2005)

Lent by Hulger

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Gachacon TV remote controller from the Arclassy series. 2002

Nobumichi Tosa (Japanese, born 1967)

Maywa Denki (Japan, est. 1993)

ABS plastic, electric circuit, steel, and LED

Manufactured by Cube Co., Ltd., Japan (2002)

Lent by Yoshimoto Kogyo Co., Ltd. / Maywa Denki

HULGER PENELOPE*PHONE. 2005

Nicolas Roope (British, born 1972)and

Kam Young (New Zealander, born 1978)

Hulger (UK, est. 2004)

Polycarbonate plastic, speaker, microphone, and wires

Manufactured by Hulger, UK, est. 2004 (2005)

Lent by Hulger

05 ENERGY

Standby from the Climatised Objects project. Prototypes. 2007

Toby Hadden (British, born 1982)and

David Cameron (British, born 1981)

&made (UK, est. 2006)

Silicone, plastic, and rubber

Lent by &made, Toby Hadden and David Cameron

Q Quinton Spray from the Elements project. Prototype. 2006

Mathieu Lehaneur (French, born 1974)

Stainless steel, PVC coating, and sensor

Lent by Frac Ile-de-France

dB White Noise Diffuser from the Elements project. Prototype. 2006

Mathieu Lehaneur (French, born 1974)

ABS plastic, mini speakers, electric engine, and charger

Lent by Frac Ile-de-France

C° Infrared Heating from the Elements project. Prototype. 2006

Mathieu Lehaneur (French, born 1974)

Elastomer, thermal camera, infra-red heating, and memory-shape alloy

Prototype financed by VIA (Valorisation de l'Innovation dans l'Ameublement / French institution for the Valorization of Innovation in Furnishing)

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K Day Light Receiver-Transmitter from the Elements project. Prototype. 2006

Mathieu Lehanneur (French, born 1974)

Aluminum, optical fibers, photoelectric cells, high-luminosity white LEDs, and sensor

Prototype financed by VIA (Valorisation de l'Innovation dans l'Ameublement / French institution for the Valorization of Innovation in Furnishing)

O Oxygen Generator from the Elements project. Prototype. 2006

Mathieu Lehanneur (French, born 1974)

Glass, aluminum, magnetic stirrer, white LEDs, and oxymetric probe

Lent by Frac Ile-de-France

Bel-Air organic air-filtering system. Prototypes. 2007

Mathieu Lehanneur (French, born 1974)

David Edwards (French, born USA 1961), of

School of Engineering and Applied Sciences, Faculty of Arts and Sciences

(FAS) (USA, est. 1890),

Harvard University (USA, est. 1636), and

Le Laboratoire (France, est. 2007)

Fans, Pyrex glass, aluminum, and fake plants

Lent by Le Laboratoire, Art Science Experience

© Mathieu Lehanneur

Light Wind. Prototype. 2006

Jeroen Verhoeven (Dutch, born 1976),

Joep Verhoeven (Dutch, born 1976), and

Judith de Graauw (Dutch, born 1976)

Demakersvan (The Netherlands, est. 2004)

Polyester textile, stainless steel, and wood

Lent by Galerie kreo

Solar Bottle. Prototype. 2006

Alberto Meda (Italian, born 1945), and

Francisco Gómez Paz (Argentinian, born 1975)

PET plastic

Lent by Alberto Meda and Francisco Gómez Paz

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Portable Light. Prototype. 2004-ongoing
Sheila Kennedy (American, born 1959),
Sloan Kulper (American, born 1980),
Jason O'Mara (American, born 1983),
Patricia Gruits (American, born 1983),
Heather Micka-Smith (American, born 1978), and
Casey Smith (American, born 1970)
KVA MATx (USA, est. 2000)

Printed circuit board, digital microprocessor-integrated circuit chip, recyclable, waterproof PET nonwoven tarp fabric, aluminized antimicrobial nonwoven fabric reflector, Copper Indium Gallium deSelenide flexible solar cells, and High Brightness Light Emitting Diode semiconductors (HBLEDs)

Lent by Sheila Kennedy, AIA, Principal Kennedy & Violich Architecture, Ltd.,
Director of Design & Applied Research: MATx

NNS: Non-Stop Shoes. Model. 1999
Emili Padrós (Spanish, born 1969)
emiliana design studio (Spain, est. 1996)
Polypropylene rubber, horse fur with reflective plastic film, and bulb

Lent by Emili Padrós, emiliana design studio

Lunchbox Laboratory. Prototype. 2007
Amy Franceschini (American, born 1970), and
Michael Swaine (American, born 1971), of
Futurefarmers (USA, est. 1995)
Jonathan Meuser (American, born 1980), of
National Renewable Energy Laboratory (NREL) (USA, est. 1977)
Stijn Schiffeleers (Belgian, born 1975), of
Boutique Vizique (Belgium, est. 2000), and
Noah Murphy-Reinhertz (American, born 1978)
Recycled milk bottles, rubber, wood, LEDs, and electronics

Lent by Futurefarmers

Humanair Air Purifier. Prototype. 2007
Andrzej Loreth (Swedish, born 1947),
Stefan Spoerl (German, born 1979),
Manuel Saez (Argentinian, born 1973), and
Brad Augustine (American, born 1975)
Humanscale (USA, est. 1982)
ABS plastic, perforated stainless steel, and polyethylene-coated paper

Lent by Humanscale

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PLUMEN low-energy light bulb. Prototype. 2007
Nicolas Roope (British, born 1972)
Hulger (UK, est. 2004)
Glass, ABS plastic, wires, and electronic fittings

Lent by Hulger

06 INTERFACES

N702iS water-level interface. 2005-06
Oki Sato (Canadian, born 1977), of
nendo (Japan, est. 1991)
Takaya Fukumoto (Japanese, born 1974), of
NEC Design, Ltd. (Japan, est. 1971)
NTT DoCoMo (Japan, est. 1992)
Flash software
Manufactured by NEC Corporation, Japan (2006)
Lent by NTT DoCoMo, Inc

Motorola Sparrow RFID (Radio Frequency Identification) scanning device. Models.
2006-ongoing
Johan Liden (Swedish, born 1974) and
Yifei Zha (Chinese, born 1981)
aruliden (USA, est. 2006)
Injection molded plastic, glass, and aluminum

Lent by Motorola, Inc. Enterprise Mobility Business

PainStation. Prototype. 2001-04
Volker Morawe (German, born 1970), and
Tilman Reiff (German, born 1971), of
//////////fur//// art entertainment interfaces (Germany, est. 2001)
Academy of Media Arts, Cologne (Germany, est. 1994)
Wood, steel, custom electronics, and mechanics

Lent by //////////fur//// art entertainment interfaces

Wizkid. Prototype. 2006-07
Martino d'Esposito (Swiss/Italian, born Cyprus 1976)
Frédéric Kaplan (French, born 1974), of
CRAFT Laboratory (Centre de Recherche et d'Appui pour la Formation et ses
Technologies) (Switzerland, est. 2002)
École Polytechnique Fédérale de Lausanne (Switzerland, est. 1853)
Aluminum, polycarbonate plastic, and elasthan-polyamide fabric

Lent by Martino d'Esposito, Frédéric Kaplan, and École Polytechnique Fédérale de Lausanne

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LED Dog Tail Communicator from the Augmented Animals project. Prototype.
2006

James Auger (British, born 1970)

Jimmy Loizeau (British, born 1968)

LEDs, programmed electronic components, and automated wagging tail

Lent by Auger-Loizeau

Image by James Auger

Living Sensors. Model. 2005

Tomoaki Yanagisawa (Japanese, born 1980)

Design Interactions Department (est. 1989)

Royal College of Art (UK, est. 1837)

Latex, plastic, and intravenous drip tube

Lent by Tomoaki Yanagisawa

Hu-Poi. Prototype. 2006

Eriko Matsumura (Japanese, born 1980)

Design Interactions Department (est. 1989)

Royal College of Art (UK, est. 1837)

Epoxy resin and electronics

Lent by Eriko Matsumura

Atlas Gloves. Prototypes. 2005-06

Dan Phiffer (American, born 1980)

Mushon Zer-Aviv (Israeli, born 1976)

Interactive Telecommunications Program (est. 1979)

Tisch School of the Arts, New York University (USA, est. 1965)

Processing software, Java.awt.Robot library, Google Earth, LED keychains, and Webcam

Lent by Dan Phiffer and Mushon Zer-Aviv

Images by Atlas Gloves

Newton Virus. Prototypes. 2005/2007

Troika (UK, est. 2003)

Custom C++ software, Apple Sudden Motion Sensor, modified USB key, and cast resin

Lent by Troika

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Pong Table. Prototype. 2006

Moritz Waldemeyer (German, born 1974)

DuPont Corian®, aluminum, and electronic circuits

Prototype by DuPont, Belgium (,)

2D:3D Ltd., UK (, and)

Moritz Waldemeyer, German, born 1974

Lent by Rabih Hage Gallery, London

Paper Alarm Clock from the Flat Futures project: Exploring Digital Paper. Models.
2007

Miquel Mora (Spanish, born 1974)

Design Interactions Department (est. 1989)

Royal College of Art (UK, est. 1837)

Paper and adhesive tape

Lent by Miquel Mora

Smart Tapes from the Flat Futures project: Exploring Digital Paper. Model. 2007

Miquel Mora (Spanish, born 1974)

Design Interactions Department (est. 1989)

Royal College of Art (UK, est. 1837)

Paper and adhesive tape

Lent by Miquel Mora

Memory Envelope, Memory Probes from the Flat Futures project: Exploring Digital
Paper. Model. 2007

Miquel Mora (Spanish, born 1974)

Design Interactions Department (est. 1989)

Royal College of Art (UK, est. 1837)

Paper and adhesive tape

Lent by Miquel Mora

GPS Certificate, Authenticity Probes from the Flat Futures project: Exploring Digital
Paper. Model. 2007

Miquel Mora (Spanish, born 1974)

Design Interactions Department (est. 1989)

Royal College of Art (UK, est. 1837)

Paper, PVC plastic, and adhesive tape

Lent by Miquel Mora

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Smart Fruit Label from the Flat Futures project: Exploring Digital Paper. Models. 2007

Miquel Mora (Spanish, born 1974)
Design Interactions Department (est. 1989)
Royal College of Art (UK, est. 1837)
Adhesive tape

Lent by Miquel Mora

Bubble Screen. Prototype. 2007

Eyal Burstein (Israeli, born 1977)
Beta Tank (UK, est. 2007)
Pneumatics, oils, and acrylic plastic
Prototype by Festo Great Britain, UK (, and)
Beta Tank, UK, est. 2007
Courtesy Eyal Burstein and Michele Gauler, Beta Tank

AMOEBA (Advanced Multiple Organized Experimental Basin). Prototype. 1997

Shigeru Naito (Japanese, born 1944), of
Department of Naval Architecture and Ocean Engineering, Osaka University
(Japan, est. 1931)
Etsuro Okuyama (Japanese, born 1977), of
Akishima Laboratories (Mitsui Zosen), Inc. (Japan, est. 1917)
Aluminum, acrylic plastic, and water
Prototype by Akishima Laboratories (Mitsui Zosen), Inc., Japan, est. 1917
Courtesy Akishima Laboratories (Mitsui Zosen), Inc.

bit.fall. Prototype. 2001-06

Julius Popp (German, born 1973)
Hochschule für Grafik und Buchkunst Leipzig (Germany, est. 1764)
Water, pump, magnetic valves, and electronic circuits
Prototype by Spherical Robots, Germany
Courtesy Galerie Dogenhaus, Leipzig, and Galerie nächst St. Stephan, Vienna

flicflex flexible display. Concept and video. 2005

Christopher Woebken (German, born 1980)
Flash software

Courtesy Christopher Woebken

Microsoft High Capacity Color Barcode. Prototype. 2004-ongoing

Gavin Jancke (British, born 1970)
Microsoft Research (USA, est. 1991)

Lent by Microsoft Research
Image by Microsoft Corporation

Design and the Elastic Mind | Exhibition Checklist

T.O.U. Soft Portable Computer. Model. 1999
Emili Padrós (Spanish, born 1969)
emiliana design studio (Spain, est. 1996)
Silicone and rubber

Lent by Emili Padrós, emiliana design studio

Snip n' Snap digital still camera from the odo project. Model. 2007-ongoing
Sony Corporation, Creative Center (Japan, est. 1961)
Sony Design Center, Los Angeles (USA, est. 2005)
Vegetable-based plastic and natural gum rubber

Lent by Sony Corporation, Creative Center

Push n' Play viewer from the odo project. Model. 2007-ongoing
Sony Corporation, Creative Center (Japan, est. 1961)
Sony Design Center, Los Angeles (USA, est. 2005)
Vegetable-based plastic and natural gum rubber

Lent by Sony Corporation, Creative Center

Crank n' Capture moving image camera from the odo project. Model. 2007-ongoing
Sony Corporation, Creative Center (Japan, est. 1961)
Sony Design Center, Los Angeles (USA, est. 2005)
Vegetable-based plastic and natural gum rubber

Lent by Sony Corporation, Creative Center

Pull n' Play headphones from the odo project. Model. 2007-ongoing
Sony Corporation, Creative Center (Japan, est. 1961)
Sony Design Center, Los Angeles (USA, est. 2005)
Vegetable-based plastic and natural gum rubber

Lent by Sony Corporation, Creative Center

juiceBox solar battery from the odo project. Model. 2007-ongoing
Sony Corporation, Creative Center (Japan, est. 1961)
Sony Design Center, Los Angeles (USA, est. 2005)
Vegetable-based plastic and natural gum rubber

Lent by Sony Corporation, Creative Center

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. Instant Labelling Tape. 2004
**Hannes Koch (German, born 1975),
Florian Ortkrass (German, born 1975), and
Stuart Wood (British, born 1980)**
rAndom International (UK, est. 2002)
Adhesive tape
Manufactured by Suck UK Ltd., UK (2008)
Lent by rAndom International and Suck UK Ltd.

PixelTape. 2005
**Hannes Koch (German, born 1975),
Florian Ortkrass (German, born 1975), and
Stuart Wood (British, born 1980)**
rAndom International (UK, est. 2002)
Adhesive tape
Manufactured by Suck UK Ltd., UK (2008)
Lent by rAndom International and Suck UK Ltd.

Bitman. 2001
**Nobumichi Tosa (Japanese, born 1967)
Ryota Kuwakubo (Japanese, born 1971)
Maywa Denki (Japan, est. 1993)**
Yoshimoto Kogyo Co., Ltd. (Japan, est. 1912)
ABS plastic, electric circuit, steel, LED, and rubber
Manufactured by Cube Co., Ltd., Japan (2001)
Lent by Yoshimoto Kogyo Co., Ltd. / Maywa Denki

Touch Messenger. Model. 2005-2006
**Shu-feng Liu (Chinese, born 1975),
Li-qing Zhou (Chinese, born 1981),
Guo-ning Hu (Chinese, born 1978), and
Sang-Jun Yoo (Korean, born 1983)**
**Samsung Design China (China, est. 2004), a division of
Samsung Electronics (Korea, est. 1969)**
PMMA plastic and silicone

Lent by Samsung Design China

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Lab-on-a-Card. Prototype. 2004-ongoing
**Bernhard Weigl (Austrian, born 1966), of
PATH (Program for Appropriate Technology in Health) (USA, est. 1977)
John Gerdes (American, born 1948), of
Micronics, Inc. (USA, est. 1966)
Paul Yager (American, born 1954), of
University of Washington (USA, est. 1861)
Phil Tarr (American, born 1952), of
Washington University in St. Louis (USA, est. 1853)**
Acrylic and Mylar

Lent by PATH

A History of Game Controllers. 2007
**Damien Lopez (American, born 1982)
Carnegie Mellon University (USA, est. 1900)**
Adobe Illustrator software

Courtesy Damien Lopez
Image by Damien Lopez

MX Air mouse. 2007
**Marcel Twohig (Irish, born 1977), and
Peter Sheehan (Irish, born 1966)
Logitech, Inc. (Switzerland, est. 1981)**
Polycarbonate/ABS plastic and PTFE
Manufactured by Logitech, Inc., Switzerland, est. 1981 (2007)
Lent by Logitech, Inc.

LOMAK light operated mouse and keyboard. 2005
**Michael Watling (New Zealander, born 1941)
Peter Haythornthwaite (New Zealander, born 1944),
Andrew Haythornthwaite (New Zealander, born 1980),
David Haythornthwaite (New Zealander, born 1978), and
Dean Edgington (New Zealander, born 1976)
Opdo Limited (New Zealand, est. 2003)
Haythornthwaite//Creativelab (New Zealand, est. 2000)**
Keyboard: ABS, Mylar substrate with screenprinted graphics, printed circuit board;
headpointer: ABS and polypropylene/TPR
Manufactured by Opdo Limited, New Zealand, est. 2003 (2007)
Lent by Opdo Limited, Auckland, New Zealand

07 SENSES

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Surround Sound Eyewear. Prototypes. 2005
Sam Hecht (British, born 1969),
Kim Colin (American, born 1961),
Ippei Matsumoto (Japanese, born 1973), and
Gwendolyn Floyd (American, born 1979)
Industrial Facility (UK, est. 2002)
Polycarbonate and laminated cellulose acetate

Lent by Industrial Facility

Smell +. Prototype. 2006-07
James Auger (British, born 1970)
Jimmy Loizeau (British, born 1968)
Design Interactions Department (est. 1989)
Royal College of Art (UK, est. 1837)
Epoxy resin, aluminum, and polyurethane

Lent by Auger-Loizeau
Funded by Philips Design
Drawing by Auger-Loizeau

Eye Candy from the Sensory Plasticity project. Models. 2007
Eyal Burstein (Israeli, born 1977), and
Michele Gauler (German, born 1973)
Beta Tank (UK, est. 2007)
Copper, steel, polyurethane, and sugar

Lent by Eyal Burstein and Michele Gauler, Beta Tank

Face Object from the BEE'S project. Prototype. 2007
Susana Soares (Portuguese, born 1977)
Design Interactions Department (est. 1989),
Royal College of Art (UK, est. 1837)
Blown handmade glass
Prototype by Crisform, Portugal
Lent by Susana Soares

Fertility Object from the BEE'S project. Prototype. 2007
Susana Soares (Portuguese, born 1977)
Design Interactions Department (est. 1989)
Royal College of Art (UK, est. 1837)
Borosilicate
Prototype by Vilabo, Portugal
Lent by Susana Soares

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Power Assist Suit. Prototype. 2005

Keijiro Yamamoto (Japanese, born 1942)

**Department of Robotics and Mechatronics, Faculty of Engineering,
Kanagawa Institute of Technology (Japan, est. 1963)**

Aluminum and other materials

Courtesy Dr. Keijiro Yamamoto, Kanagawa Institute of Technology

Image by Dr. Keijiro Yamamoto

Powered Ankle-Foot Prosthesis. Prototype. 2005-07

Hugh Herr (American, born 1964),

Jeff Weber (American, born 1969), and

Bruce Deffenbaugh (American, born 1946)

Biomechatronics Group (USA, est. 2004)

Massachusetts Institute of Technology (USA, est. 1861)

iWalk, Inc. (USA, est. 2006)

Titanium, aluminum, carbon composite, and polyurethane

Prototype by iWalk, Inc., USA, est. 2006

Lent by Massachusetts Institute of Technology

Emergent Surface. Prototype. 2007

Chuck Hoberman (American, born 1956)

Matthew Davis (American, born 1975),

Ziggy Drozdowski (American, born 1982), and

David Wight (American, born 1983)

Hoberman Associates, Inc. (USA, est. 1990)

Stainless steel and aluminum

Prototype by Milgo/Bufkin, USA, est. 1916 (, and)

QuickSilver Controls, Inc., USA, est. 1996

Commissioned by The Museum of Modern Art in occasion of the exhibition Design and the Elastic Mind

The Mind Chair from the Sensory Plasticity project. Model. 2007

Eyal Burstein (Israeli, born 1977), and

Michele Gauler (German, born 1973)

Beta Tank (UK, est. 2007)

Peter Marigold (British, born 1974)

Fiberglass, steel, and electronic components

Lent by Eyal Burstein and Michele Gauler, Beta Tank

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Robotic Suit for Upper-limb Rehabilitation. Prototype. 2006

Hidenori Miyazawa (Japanese, born 1957)

Engineering: Hiromichi Fujimoto (Japanese, born 1970), and

Keisuke Ueda (Japanese, born 1972)

Panasonic (Japan, est. 1918)

Polyurethane, cotton, nylon, stainless steel, and aluminum

Lent by Panasonic

Precise Object from the BEE'S project. Prototype. 2007

Susana Soares (Portuguese, born 1977)

Design Interactions Department (est. 1989),

Royal College of Art (UK, est. 1837)

Borosilicate

Prototype by Vilabo, Portugal

Lent by Susana Soares

08 ALL TOGETHER NOW

Sonumbra. 2006

Rachel Wingfield (British, born 1978), and

Mathias Gmachi (Austrian, born 1974)

Loop, pH (UK, est. 2003)

Electroluminescent lace, camera, speakers, electronics, and software

Lent by Loop, pH

Distellamap (Pac-Man). 2004

Ben Fry (American, born 1975)

Processing software

Courtesy Ben Fry

Image by Ben Fry

Cinema Redux: Vertigo. 2004

Brendan Dawes (British, born 1966)

magneticNorth (UK, est. 2000)

Processing software

Courtesy brendandawes.com

Image by Brendan Dawes

08 EXISTENZMAXIMUM

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Social Tele-presence. Prototype. 2001

James Auger (British, born 1970)

Jimmy Loizeau (British, born 1968)

Design Interactions Department (est. 1989)

Royal College of Art (UK, est. 1837)

Acrylic plastic, aluminum, electronic media, Sony Glasstron glasses, video and R/C radio receivers

Lent by Auger-Loizeau

Image by James Auger and Onkar Kular

Interstitial Space Helmet (ISH). Prototype. 2004

James Auger (British, born 1970)

Jimmy Loizeau (British, born 1968)

Polycarbonate and electronic media

Lent by Auger-Loizeau

Drawing by Auger-Loizeau

Isophone. Prototype. 2003

James Auger (British, born 1970)

Jimmy Loizeau (British, born 1968)

Media Lab Europe (Ireland (2000-05))

Stainless steel, fiberglass, aluminum, and electronic media

Lent by Auger-Loizeau

Drawing and image by Auger-Loizeau

Exploded Monologues wearable voice-amplifier device. Prototype. 2003

Sebastien Noel (French, born 1977)

Troika (UK, est. 2003)

Steel and electronic components

Lent by Sebastien Noel

SMS Guerrilla Projector. Prototype. 2003

Troika (UK, est. 2003)

Steel, nylon, aluminum, and electrical and optical components

Lent by Troika

09 ALL TOGETHER NOW

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One_shot.MGX Stool. 2006

Patrick Jouin (French, born 1967)

Laser-sintered nylon

Materialise NV, Belgium, est. 1995

Gift of the A+D Circle

FS Bowl. 2005

Amanda Leveté (British, born 1959)

Laser-sintered nylon

Materialise NV, Belgium, est. 1995

Clarissa Bronfman Purchase Fund

Shadow Monsters. 2004-ongoing

Philip Worthington (British, born 1977)

Java, Processing, BlobDetection, SoNIA, and Physics software

Lent by Philip Worthington

CoReFab #116 chairs. Models. 2006

Ammar Eloueini (French, born Lebanon 1968)

AEDS Ammar Eloueini Digit-all Studio (France, est. 1997)

Laser-sintered polyamide resin

Lent by Ammar Eloueini

Sketch Furniture. 2005

Sofia Lagerkvist (Swedish, born 1976),

Charlotte von der Lancken (Swedish, born 1978),

Anna Lindgren (Swedish, born 1977), and

Katja Sävström (Swedish, born 1976), of

Front Design (Sweden, est. 2004)

Prototypes byAcron Formservice AB (Sweden)(2005)

Motion capture byCrescent (Japan)(2006)

Polyamide resin

Lent by Friedman Benda

Laser-sintered textiles. 2000-06

Janne Kytanen (Finnish, born 1974), and

Jiri Evenhuis (Dutch, born 1973)

Freedom Of Creation (The Netherlands, est. 2000)

Laser-sintered polyamide resin

Manufactured by Freedom Of Creation, The Netherlands, est. 2000 (2000-06)

Lent by Freedom Of Creation

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Punchbag handbag. 2005

Janne Kyttanen (Finnish, born 1974), and

Jiri Evenhuis (Dutch, born 1973)

Freedom Of Creation (The Netherlands, est. 2000)

Laser-sintered polyamide resin

Manufactured by Freedom Of Creation, The Netherlands, est. 2000 (2005)

Lent by Freedom Of Creation

Macedonia fruit bowl. 2007

Janne Kyttanen (Finnish, born 1974)

Freedom Of Creation (The Netherlands, est. 2000)

Quartz sand with epoxy infiltration

Manufactured by Freedom Of Creation, The Netherlands, est. 2000 (2007)

Lent by Freedom Of Creation

V_bag. 2003

Janne Kyttanen (Finnish, born 1974), and

Jiri Evenhuis (Dutch, born 1973)

Freedom Of Creation (The Netherlands, est. 2000)

Laser-sintered polyamide resin

Lent by Freedom Of Creation

Sugar interface for the XO Laptop. 2006-07

Lisa Strausfeld (American, born 1964),

Christian Marc Schmidt (German, born 1977), and

Takaaki Okada (Japanese, born 1978), of

Pentagram (UK and USA, est. 1972)

Walter Bender (American, born 1956), and

Eben Eliason (American, born 1982), of

One Laptop per Child (USA, est. 2005)

Marco Pesenti Gritti (Italian, born 1978), and

Christopher Blizzard (American, born 1973), of

Red Hat, Inc. (USA, est. 1993)

Design: Illustrator, Photoshop, Flash, Inkscape, and GIMP (GNU Image Manipulation Program) software; implementation: Python, GTK+ (GIMP Toolkit), and Cairo software

Lent by One Laptop per Child

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I Want You To Want Me. 2007-ongoing
**Jonathan Harris (American, born 1979), of
Number 27 (USA, est. 2002)
Sep Kamvar (American, born 1977)**
C++ software
Music by Stars

Commissioned by The Museum of Modern Art in occasion of the exhibition Design
and the Elastic Mind

Babel Blocks. 2007
**Constantin Boym (American, born Russia, 1955), and
Laurene Leon Boym (American, born 1964)
Boym Partners Inc. (USA, est. 1986)**
Wood

Lent by Boym Partners Inc.

L.A.S.E.R. Tag. Video of performances. 2007
**James Powderly (American, born 1976),
Evan Roth (American, born 1978), and
Theo Watson (British, born 1981)
Graffiti Research Lab (USA, est. 2006)**
60 mW green laser, digital projector, camera, and custom GNU software
(L.A.S.E.R. Tag V1.0, using OpenFrameworks)

Courtesy F.A.T. Lab 2008

Sitting Chairs. 2004
**Lucas Maassen (Dutch, born 1975)
Untitled Nations (The Netherlands and Belgium, est. 2006)**
MDF (Medium-Density Fiberboard) and solid oak

Lent by Lucas Maassen

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XO Laptop from the One Laptop per Child (OLPC) project. 2005-ongoing
Nicholas Negroponte (American, born 1943),
Rebecca Allen (American, born 1953),
Mary Lou Jepsen (American, born 1965),
Mark Foster (American, born 1960),
Michail Bletsas (Greek, born 1967), and
V. Michael Bove (American, born 1960), of
One Laptop per Child (USA, est. 2005)
Yves Béhar (Swiss, born 1967), and
Bret Recor (American, born 1974), of
fuseproject (USA, est. 1999)
Jacques Gagné (Canadian, born 1959), of
Gecko Design (USA, est. 1996)
Colin Bulthaup (American, born 1976), of
Squid Labs (USA, est. 2004)
John Hutchinson (South African, born 1952), of
Freeplay Energy Plc. (South Africa, est. 1996)
Quanta (Taiwan, est. 1988)
PC/ABS plastic, rubber, and other materials
Manufactured by Quanta, Taiwan, est. 1988 (2007)
Lent by Yves Béhar / fuseproject

ASK ME! culture badges. 2004
Emili Padrós (Spanish, born 1969)
emiliana design studio (Spain, est. 1996)
Paper, acetate film, and tin

Lent by Emili Padrós, emiliana design studio

Mylight.MGX. 2006
Lars Spuybroek (Dutch, born 1959)
NOX (The Netherlands, est. 1993)
Polyamide resin
Manufactured by Materialise NV, Belgium, est. 1995 (2007)
Lent by Materialise.MGX

beerhunter.ca. 2005-ongoing
Janis Mussat (Canadian, born 1970), and
Adam Putter (Canadian, born 1975), of
Bad Math Inc. (Canada, est. 2001)
PHP, MySQL, Photoshop, and Google Maps API Software

Courtesy Bad Math Inc.

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flood.firetree.net. 2006-ongoing

**Alex Tingle (British, born 1969), of
firetree.net (UK, est. 2002)**

Debian GNU/Linux, Apache, Google Maps API, and Flood Maps custom software

Courtesy Alex Tingle

fastfoodmaps.com. 2005-ongoing

Ian Spiro (American, born 1981)

JavaScript, PHP, SQL (Structured Query Language), HTML, CSS, Awk, Sed, Bash, Illustrator, and Google Maps API software

Courtesy Ian Spiro

safe2pee.org. 2006-ongoing

**Bailey Stevens (American, born 1984)
Genderqueer Hackers Collective (USA, est. 2006)**

Linux, Apache, MySQL, PHP, Yahoo Geocoding API, Phoogle, Google Maps API software, and S2P engine

Courtesy Genderqueer Hackers Collective

gmap-pedometer.com. 2005 - ongoing

Paul Degnan (American, born 1971)

JavaScript, HTML, PHP, and Google Maps API software

Courtesy Paul Degnan

globalincidentmap.com. 2006-ongoing

**Morgan Clements (American, born 1969), of
TransitSecurityReport.com, Inc. (USA, est. 2006)**

MySQL, RSS (Really Simple Syndication), KML (Keyhole Markup Language), Google Maps API, and proprietary software

Courtesy Morgan Clements

twittervision.com. 2007-ongoing

**David Troy (American, born 1971), of
Popvox LLC (USA, est. 2004)**

JavaScript, Ruby On Rails, MySQL, and Google Maps API software

Courtesy David Troy

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yellowarrow.net/capitolofpunk. 2006- ongoing

**Kara Oehler (American, born 1978),
Christopher Allen (American, born 1980),
Jesse Shapins (American, born 1980),
Brian House (American, born 1979),
Geoffrey Guinta (American, born 1984), and
Nathan Phillips (American, born 1977), of
Counts Media, Inc. (USA, est. 2004)
Kapon Chung (American, born 1981), and
Chahn Chung (American, born 1977), of
Make Believe (USA, est. 2006)**

PHP, JavaScript, TextWrangler, Flash, Illustrator, Photoshop, After Effects,
Dreamweaver, and Google Maps API software

Courtesy Counts Media, Inc.

chicagocrime.org. 2005-ongoing

**Adrian Holovaty (American, born 1981), and
Wilson Miner (American, born 1981)**

Django and Google Maps API (Application Programming Interface) software

Courtesy Adrian Holovaty and Wilson Miner

dartmaps.mackers.com. 2005-ongoing

**David McNamara (Irish, born 1980), of
mackers.com (Ireland, est. 1999)**

PHP, XML (Extensible Markup Language), HTML (Hypertext Markup Language),
JavaScript, CSS (Cascading Style Sheets), and Google Maps API software

Courtesy David McNamara

Misdaadkaart.nl. 2006-ongoing

**Robert Jan de Heer (Dutch, born 1972), of
J3Trust B.V. (The Netherlands, est. 2006)**

PHP, MySQL, Linux, and Google Maps API software

Courtesy Robert Jan de Heer (J3Trust B.V.)

<http://mars.google.com/>. 2005-ongoing

**Noel Gorelick (American, born 1968), and
Michael Weiss-Malik (American, born 1978)**

**Mars Space Flight Facility, Arizona State University (USA, est. 1990), and
Google Inc. (USA, est. 1998)**

ImageMagick, DaVinci, Google Earth Fusion, and Google Maps API software

Courtesy Google

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flickrvision.com. 2007-ongoing

**David Troy (American, born 1971), of
Popvox LLC (USA, est. 2004)**

JavaScript, Ruby On Rails, MySQL (SQL open-source database), and Google Maps API software

Courtesy David Troy

<http://moon.google.com/>. 2007-ongoing

**Noel Gorelick (American, born 1968),
Michael Weiss-Malik (American, born 1978),
Matthew D. Hancher (American, born 1978),
Michael Joseph Broxton (American, born 1981),
Noelle Steber (American, born 1985),
Roman Kofman (American, born 1985), and
Patrick J. Auld (American, born 1985)
NASA Ames Research Center (USA, est. 1939)
Google Inc. (USA, est. 1998)**

Google Maps API, NASA Vision Workbench, Adobe Photoshop, Autopano Pro, and Adobe Lightroom

Courtesy Google

Potenco Pull-Cord Generator (PCG). Prototype. 2006

**Colin Bulthaup (American, born 1976), of
Potenco, Inc. (USA, est. 2006)**

**Yves Béhar (Swiss, born 1967), and
Bret Recor (American, born 1974), of
fuseproject (USA, est. 1999)**

**Jacques Gagné (Canadian, born 1959), of
Gecko Design (USA, est. 1996)**

Cast urethane plastic, stainless steel, nylon webbing, copper, circuit boards, electronic components, wire, and lead-free solder

Lent by Potenco, Inc.

Attracted to Light from the Long Exposure series. Prototype. 2005

Geoffrey Mann (British, born 1980)

Nylon

Lent by Geoffrey Mann

CoReFab#116_25. 2006

**Ammar Eloueini (French, born Lebanon 1968)
AEDS Ammar Eloueini Digit-all Studio (France, est. 1997)**

Polyamide nylon

Gift of The Contemporary Arts Council of The Museum of Modern Art

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10 CITY

LRPT (La Región de los Pantalones Transfronterizos). Prototype. 2005-06

Raúl Cárdenas Osuna (Mexican, born 1969)

Torolab (Mexico, est. 1995)

Global Positioning System, MaxScript, and 3d MAX software

Lent by Galeria OMR, Mexico City

New York Talk Exchange. 2008

senseable city laboratory (USA, est. 2003),

Massachusetts Institute of Technology (USA, est. 1861)

Carlo Ratti (Italian, born 1971)

Kristian Kloeckl (Austrian, born 1977),

Assaf Biderman (Israeli, born 1977),

Margaret Ellen Haller (American, born 1980), and

Francisca Rojas (Chilean, born 1976)

Visual software: Francesco Calabrese (Italian, born 1982),

Aaron Koblin (American, born 1982), and

Andrea Vaccari (Italian, born 1983)

Yahoo! Design Innovation Team (USA, est. 2005)

Research advisors: William J. Mitchell (Australian, born 1944), Massachusetts Institute of Technology, and

Saskia Sassen (Dutch, born 1949), Columbia University

Java and Processing software

Lent by senseable city laboratory, Massachusetts Institute of Technology

Sponsored by AT&T

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New City. 2008

**Peter Frankfurt (American, born 1958), of
Imaginary Forces (USA, est. 1996)
Greg Lynn (American, born 1964), of
Greg Lynn FORM (USA, est. 1994)
Alex McDowell (British, born 1955), of
Matter Art and Science (USA, est. 2001)**

Commissioned by The Museum of Modern Art in occasion of the exhibition Design and the Elastic Mind

Three-dimensional soundscape composition provided by Martyn Ware for
Illustrious Company
Stock footage provided by Thought Equity Motion
Film contribution provided by Neutral London, Christian Grou, and Tapio Snellman
Technical visualization provided by Proof, Inc.
Exhibit technology consultation provided by Show & Tell Productions, Inc.
Media engineering assistance provided by Laird Nolan and Mike Fabio
Video-encoding and playback equipment provided by Kollins Communications
Additional support provided by David Heyman

Cabspotting. 2005-ongoing

**Eric Rodenbeck (American, born 1970),
Michal Migurski (Polish, born 1977),
Shawn Allen (American, born 1981),
Tomas Apodaca (American, born 1970), and
Gabriel Dunne (American, born 1981)
Stamen Design (USA, est. 2001)**
Flash ActionScript, Processing, and Python software

Lent by Stamen Design

A project of the Invisible Dynamics initiative at the Exploratorium in San Francisco
Produced by Peter Richards and Susan Schwartzberg
Directed by Scott Snivve with the creative consultation of Amy Balkin
Data generously provided by Yellow Cab of San Francisco
Supported by a grant from the National Foundation for the Arts

Architecture and Justice from the Million Dollar Blocks project. 2006

**Laura Kurgan (South African, born 1961),
Eric Cadora (American, born 1962),
David Reinfurt (American, born 1971), and
Sarah Williams (American, born 1974)
Spatial Information Design Lab (USA, est. 2004),
Graduate School of Architecture, Planning and Preservation, Columbia
University (USA, est. 1881)**
ESRI ArcGIS (Geographic Information System) software

Courtesy Spatial Information Design Lab, GSAPP, Columbia University
Images by Spatial Information Design Lab, GSAPP, Columbia University

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11 VISUALIZATION

Mapping the Internet. 2003

Barrett Lyon (American, born 1978)

The Opte Project (USA, est. 2003)

Opte software

Courtesy Barrett Lyon, The Opte Project

Image by Barrett Lyon

Protein Homology Graph. 2004

Edward Marcotte (American, born 1967), and

Alex Adai (American, born 1976)

Center for Systems and Synthetic Biology (USA, est. 2003),

The University of Texas at Austin (USA, est. 1883)

Large Graph Layout (LGL) software

Courtesy Edward Marcotte

Image by Alex Adai

Walrus graph visualization tool. 2001-02

Young Hyun (American, born 1973)

Cooperative Association for Internet Data Analysis, San Diego

Supercomputer Center (USA, est. 1997),

University of California, San Diego (USA, est. 1960)

Java and Java3D software

Courtesy University of California, San Diego

Image by Young Hyun and Bradley Huffaker

"Rewiring the Spy". Illustrations/applet for New York Times Magazine. December 3, 2006

Lisa Strausfeld (American, born 1964), and

James Nick Sears (American, born 1980)

Pentagram (UK and USA, est. 1972)

Illustrator, Acrobat, and Processing software

Courtesy Pentagram Design

Images by Pentagram Design

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Flight Patterns. 2005

Aaron Koblin (American, born 1982)

Department of Design | Media Arts (USA, est. 1994),

School of the Arts and Architecture at University of California, Los Angeles (USA, est. 1966)

Processing, Maya, and After Effects software

Lent by Aaron Koblin

TextArc. 2001

W. Bradford Paley (American, born 1958)

Digital Image Design Incorporated (USA, est. 1982)

Java software

Lent by W. Bradford Paley

Sponsored by Canon

History Flow. 2003

Fernanda Bertini Viégas (Brazilian, born 1971), and

Martin Wattenberg (American, born 1970)

IBM Thomas J. Watson Research Center (USA, est. 1961)

Java software

Courtesy Fernanda Bertini Viégas and Martin Wattenberg

Images by Visual Communication Lab, IBM Research

Thinking Machine 4. 2003-04

Martin Wattenberg (American, born 1970), and

Marek Walczak (British, born 1957)

MW2MW (USA, est. 2001)

Eclipse and Processing software

Lent by Martin Wattenberg and Marek Walczak

Hypothetical Drawings about the End of the World. 2006

Demetrie Tyler (American, born 1973)

Interactive Telecommunications Program (est. 1979),

Tisch School of the Arts, New York University (USA, est. 1965)

Processing software

Courtesy Demetrie Tyler

Image by Demetrie Tyler

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isometricblocks. 2002/2004-05

Ben Fry (American, born 1975)

Aesthetics + Computation Group (est. 1996),

MIT Media Laboratory (USA, est. 1980)

Processing software

Courtesy Ben Fry

Image by Ben Fry

Humans vs. Chimps. 2005

Ben Fry (American, born 1975)

Processing software

Courtesy Ben Fry

Image by Ben Fry

CodeProfiles. 2002

W. Bradford Paley (American, born 1958)

Digital Image Design Incorporated (USA, est. 1982)

Self-developed software

Lent by W. Bradford Paley