

Pino Trogu

SFSU

370 Colloquium

Monday

October 10, 2011



HOME

Sardinia, circa 1950



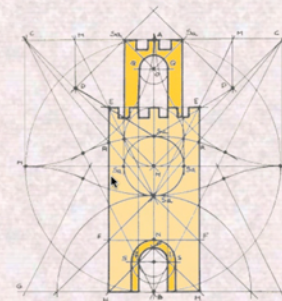




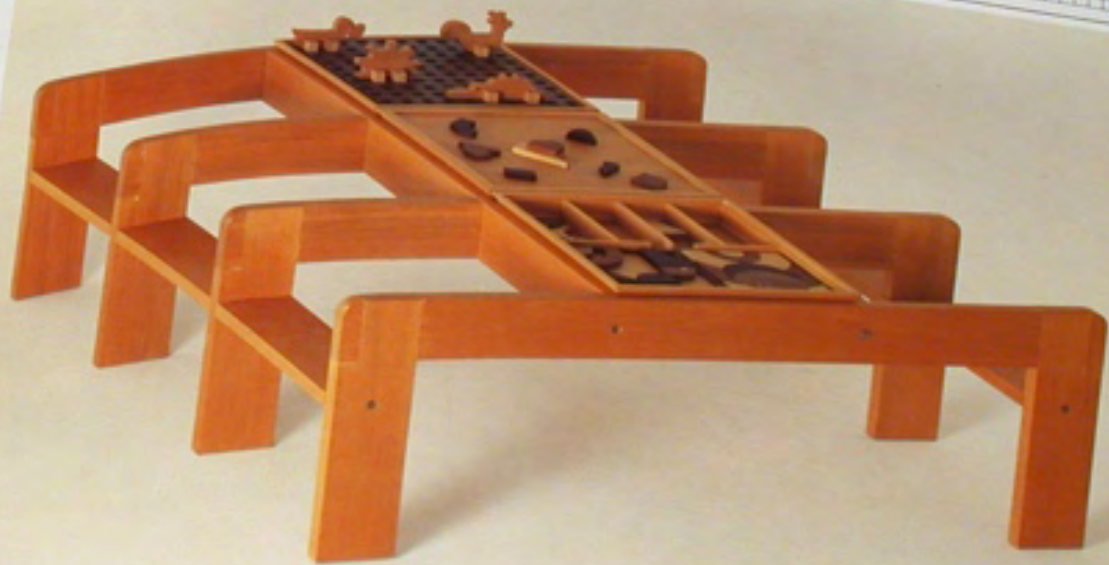
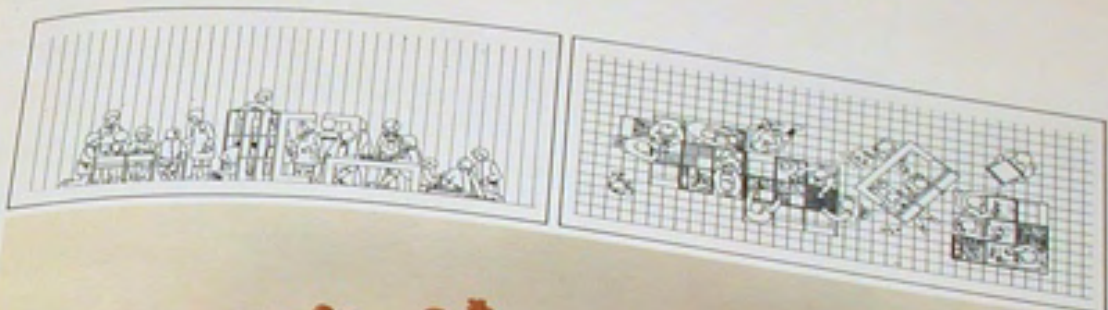
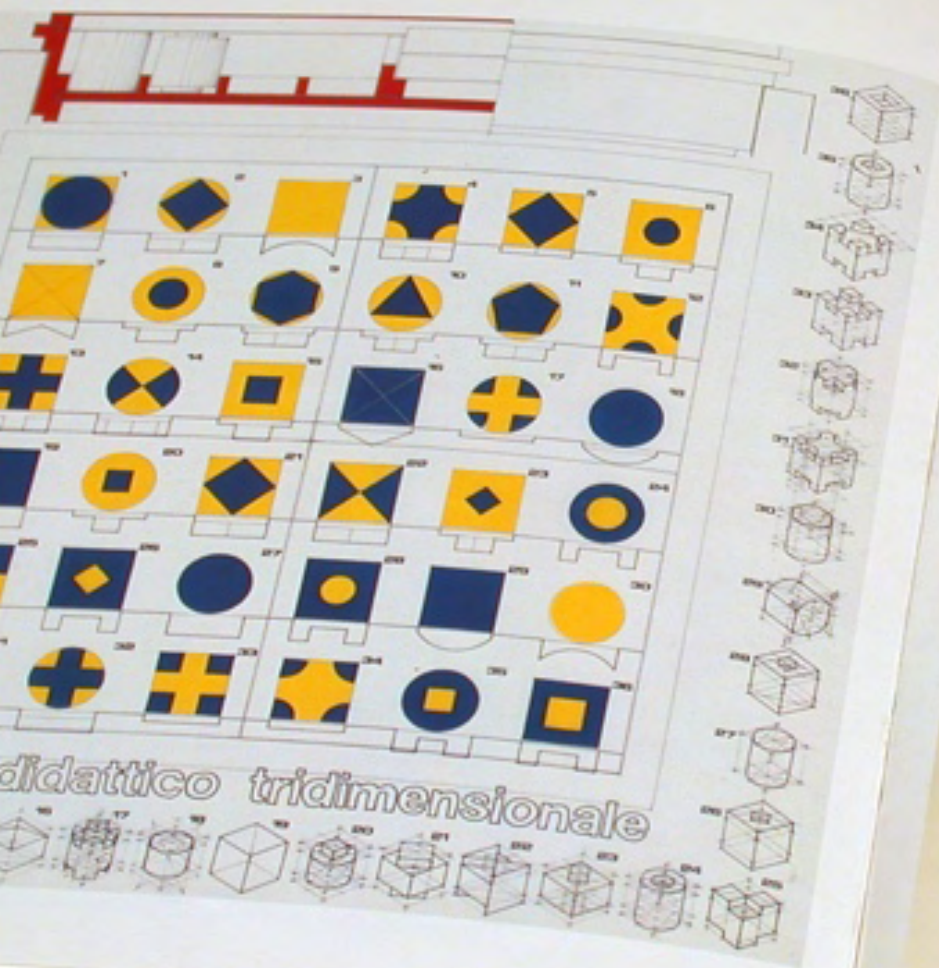
Art Institute Industrial Design Sardinia



ISTITUTO STATALE D'ARTE "C. CONTINI" ORISTANO







Invitazioni di laboratorio (s. 1975).
Invitazioni nell'aula di progettazione



Analisi grafica della struttura di elementi naturali (s. 1984)



Art Institute Graphic Design Urbino

ISIAUrbino MINISTERO DELL'UNIVERSITÀ
ALTA FORMAZIONE ARTISTICA

[HOMEPAGE](#) [ISTITUTO](#) [AMMISSIONE](#) [DIDATTICA](#) [CALENDARI](#) [PROGETTI](#) [STUDE](#)

**Diploma di II livello
in Grafica delle immagini
a indirizzo
Fotografia dei
Beni Culturali**

**Una palestra per
una completa
formazione nella
professione
del fotografo**

**Calendario
Accademico**
A.a. 2009-2010

**Candidati ammessi al
1° anno del Diploma
Accademico di
secondo livello in
Grafica dei sistemi
Indirizzo
Comunicazione e
design per l'editoria**
A.a. 2009-2010

Offro Stages e tirocini
Eikon ricerca 1 web designer
con un minimo di esperienza
per la progettazione e
sviluppo di applicazioni web.
E' richiesta la conoscenza

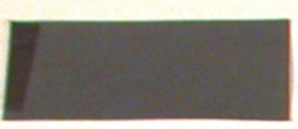




CHANGE OF TEMPERATURE
COLD → COLDER
WARM → WARMER

VALUE
↓

Rhode Island School of Design Providence



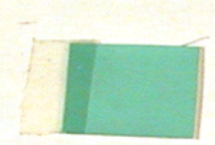
2+4



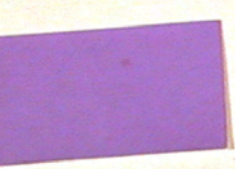
ALI
GOLD
BLACK



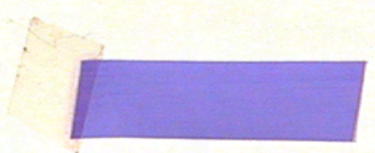
SPEC
TURQ
OXIDE
WHITE



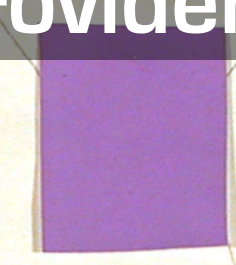
lighter



SPEC
TURQ
ULTRA
ROSE
WHITE



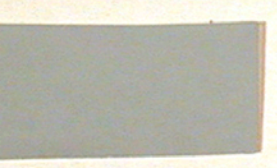
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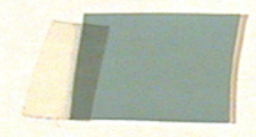
4



2



3+4



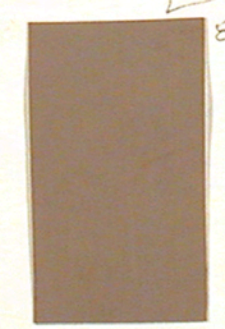
3



5



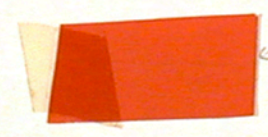
4+7



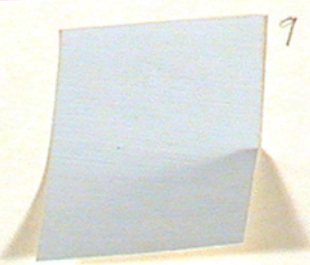
8



ROSE
GOLD
ULTRA
FLAME
WHITE



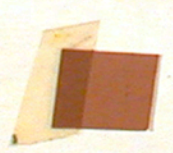
duller



9



3+7

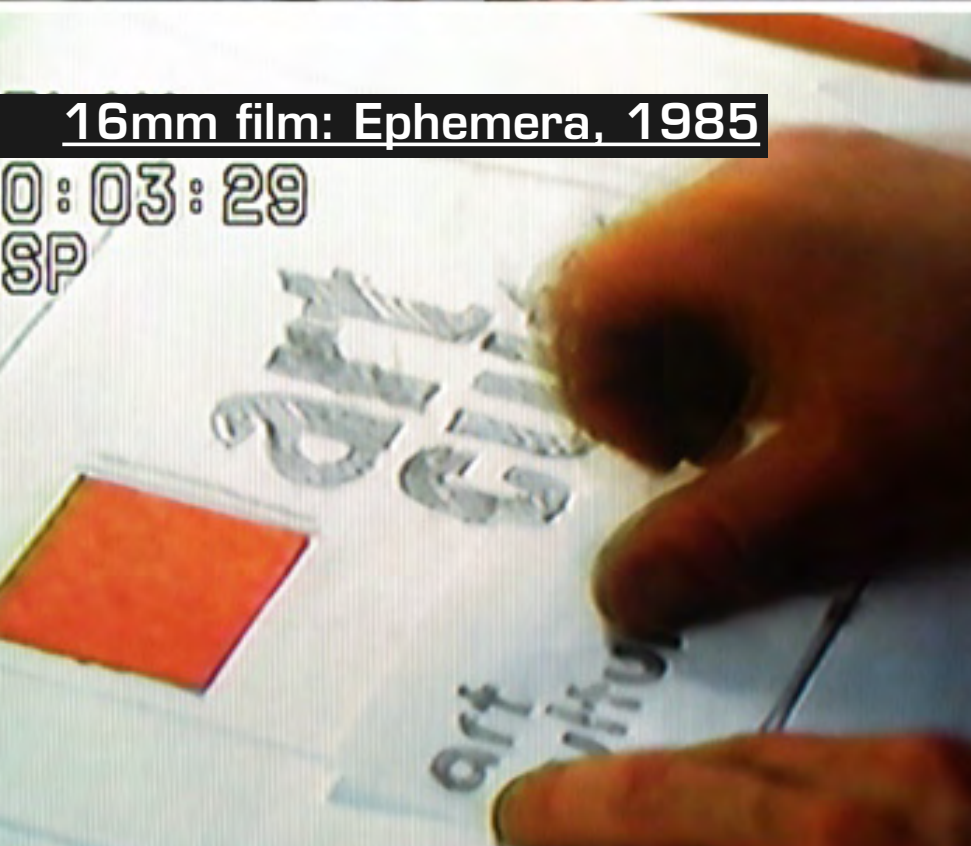
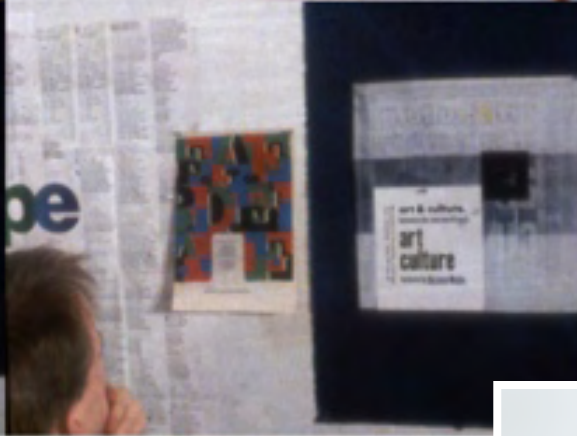


risd
rhode island school of design

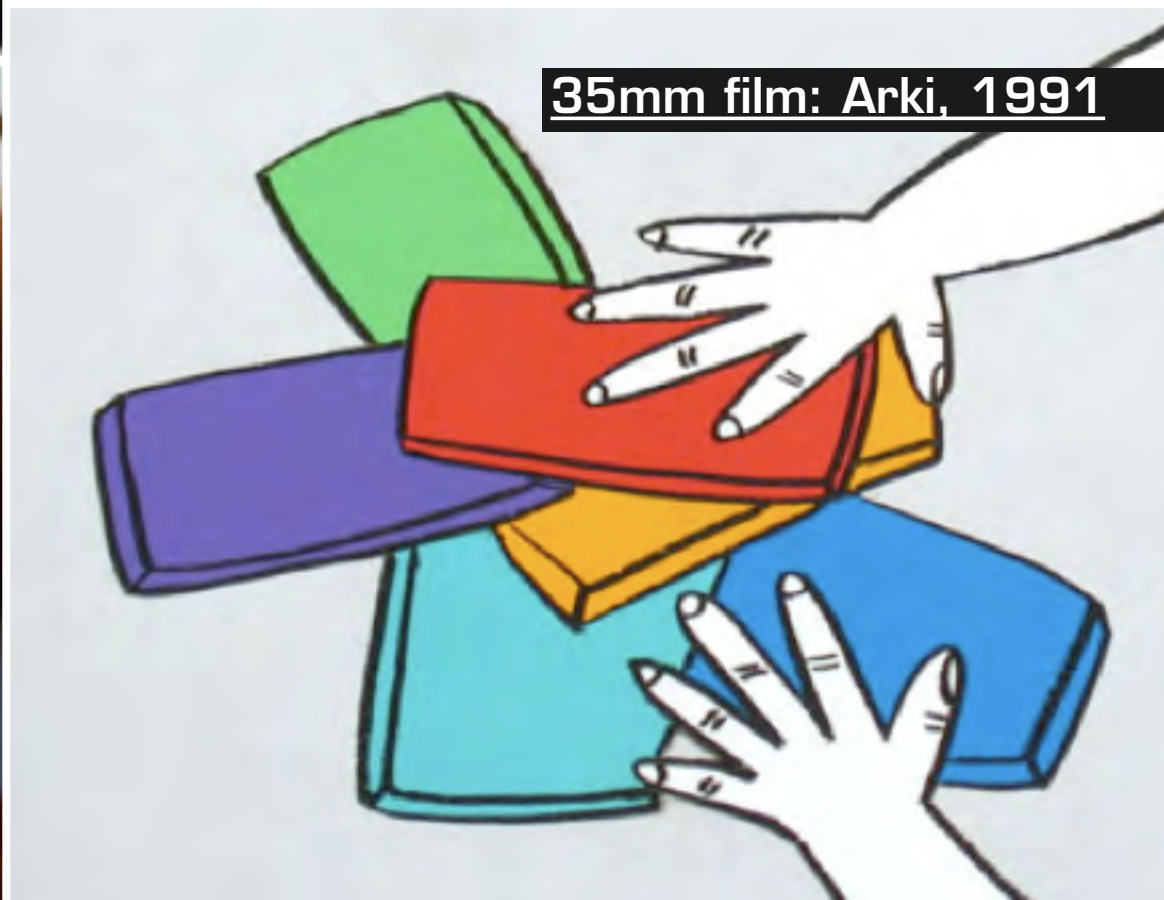
- ADMISSIONS
- ABOUT
- DEGREES
- CONTINUING ED
- ALUMNI
- PARENTS
- GIVE TO RISD
- MUSEUM

THE BRILLIANT LINE | Renaissance engravings

DARKER : GREEN
VIOLET



16mm film: Ephemera, 1985



35mm film: Arki, 1991



WORK

Galleria Vittorio Emanuele. Milan, Italy.

GrafCo

book-makers
UNITED

Mauro Santella

Pier Antonio Zevi

Mauro Piacentini

Pino Poggi

libri
riviste
marchi
immagini
manifesti
cataloghi
mostre
brochures
fotografie
logotipi
books
magazines
logos
pictures
posters
catalogues
exhibitions
brochures
photos
logotypes



PHOTO: GIOVANNI MARIANI

S

Z

P

T



Istituto Europeo di Design, Istituto Superiore di Comunicazione, Centro ricerche
 Comunicare una scuola italiana nel mondo. Manifesti, pieghevoli e prodotti editoriali. Visual identity for an Italian design school and its international promotional campaign. Posters, pamphlets and various publications. 1991-1995 (P+2+5)

Edizioni Ambiente

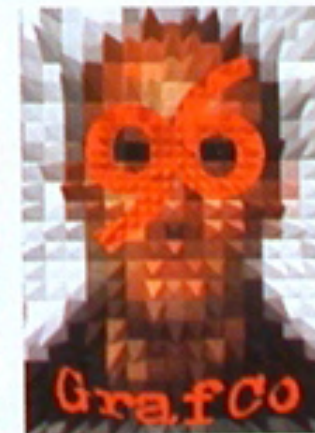
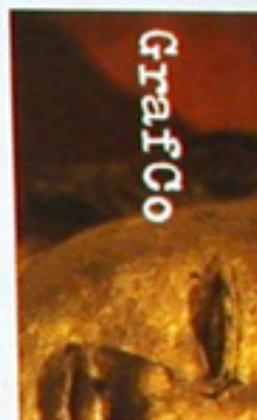
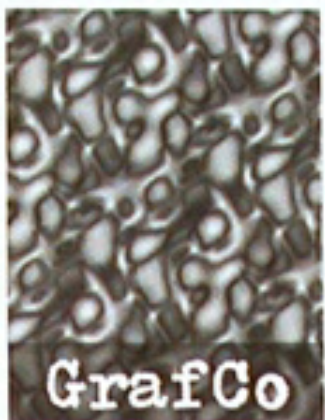
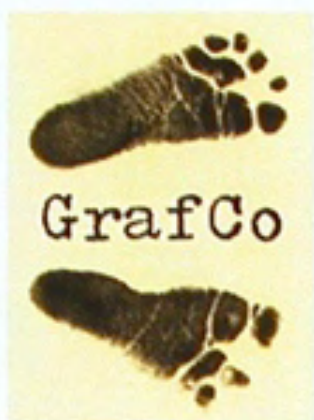
R
Rete Ambiente

Marchi per l'Editore e il Network. Logos for the publisher and its network. 1995 (2+P)

Edizioni Ambiente
 Editore specializzato in temi ambientali. Riviste, libri, pieghevoli. Publisher specializing in environmental issues. Magazines, books, and pamphlets. 1994-1995 (P+2+T)



Prenatal-WWF
 Diario e calendario scolastico per bambini. Datebook/diary and calendar for schoolchildren. 1995 (P+5)





Alessi

ACHILLE CASTIGLIONI

Menorah, 1962.

*Prototype in aluminum and plastic
(Arch. No. AC 282)
W 29 cm (11 1/2"), H 4.3 cm (1 3/4")
H 29.2 cm (11 1/2")*

Achille Castiglioni's influence on Alessi goes much beyond his design contributions—many of which were put into production. For one, he increased our "turnout" capacity and he definitely taught us to "demystify" the world of design.

The Menorah is his contribution to the research "Nerot Mizvah: Contemporary ideas for light in Jewish Ritual" promoted in 1985 by Itzaki Gaon of the Israel Museum in Jerusalem. His version of the traditional Jewish candle holder features ready-made handle bar caps, directly from a Japanese motorcycle, that grant a perfect hold.



Foto: A&P S&P



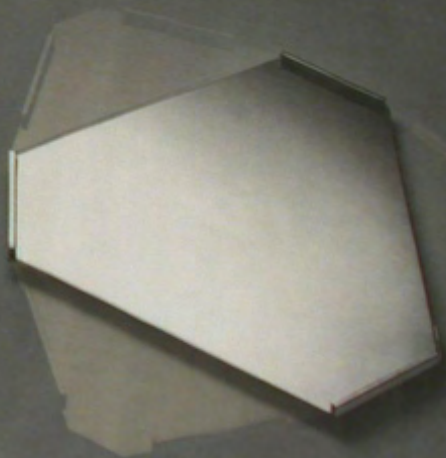
ACHILLE CASTIGLIONI

Folding Tray, 1962.

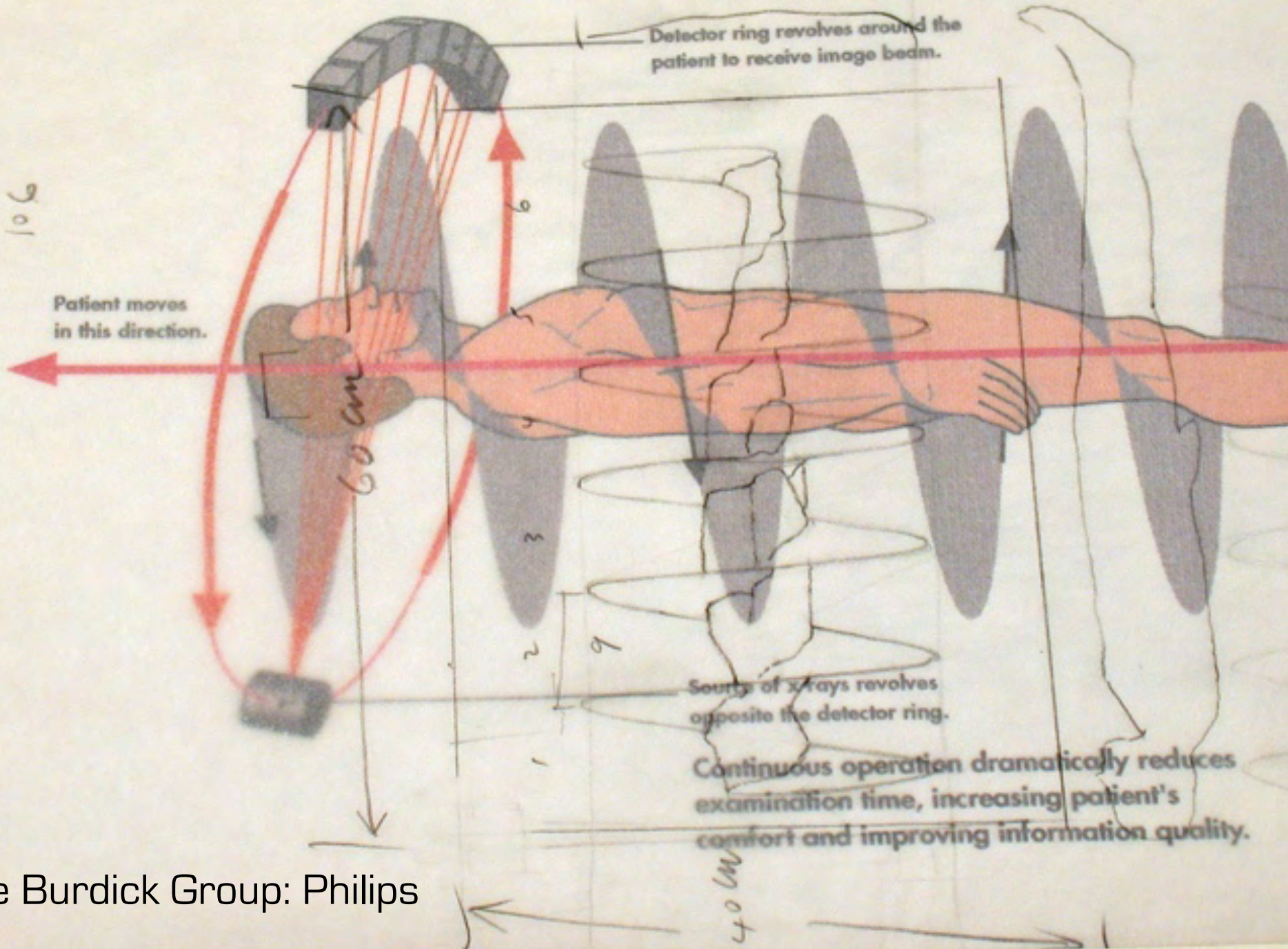
*Prototype in nickel-plated copper
(Arch. No. AC 932)
W 34 cm (13 1/2"), H 29.5 cm (11 3/4")
H 2.3 cm (7/8") W 48 cm (15 3/4")
H 48 cm (15 3/4") (open)*

Our acquaintance with Achille Castiglioni dates back to 1979, when, on occasion of the Forum Design exhibition in Linz, he designed the layout of the Alessi/Zanotta installation. In addition to the designs put into production under Alessi's or Officina Alessi's trademarks, Castiglioni forced us to promote the development of a variety of prototypes issuing from more "experimental" designs, that we have not dared put into production yet.

For instance this folding tray equipped with hinges and fins, ideal for apartments with space problems.



48
106



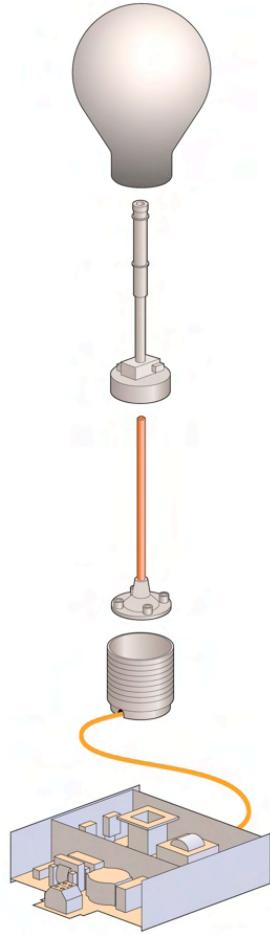
Detector ring revolves around the patient to receive image beam.

Patient moves in this direction.

Source of x-rays revolves opposite the detector ring.

Continuous operation dramatically reduces examination time, increasing patient's comfort and improving information quality.

The Burdick Group: Philips



RELIABLE ELECTRONICS



PHILIPS INNOVATION
Philips innovation is driven by the
desire to make something better,
smarter, simpler.

Using electronics expertise,
Philips produced reliable
and compact control gear to run
the QL lamp throughout its long life

One of the key electronics innovations for Philips is
the QL lamp. Features in manufacturing allow Philips to
produce compact and reliable electronic control gear for
the duration of the life.

One of the key to maximum lighting efficiency and
reliability is efficient heat control. This is achieved
through Philips expertise in thermodynamics.



EFFICIENCY
The addition of the control gear
helps the lamp to run cooler,
improving its efficiency and
reducing the energy used to
produce the same amount of
light.



ELECTRONIC EFFICIENCY

Philips' compact and reliable electronic control gear is designed to last for the life of the lamp. It is made from high-quality materials and is protected against dust and moisture.

The Philips QL lamp is a compact and reliable light source that is designed to last for the life of the lamp. It is made from high-quality materials and is protected against dust and moisture.

ENERGY EFFICIENCY

Philips' compact and reliable electronic control gear is designed to last for the life of the lamp. It is made from high-quality materials and is protected against dust and moisture.

10 10

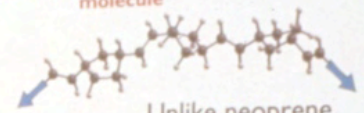


West Office:
California Museum
of Science
and Industry



neoprene molecules to one another make sure the ball returns to its original shape.

Polynorbornene molecule

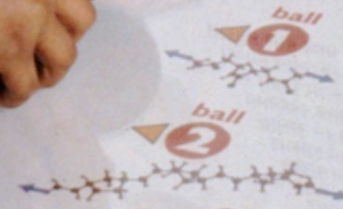


2

Unlike neoprene, the polynorbornene molecules in Ball 2 contain a bulky five-carbon ring which makes it more difficult for them to move past one another. Because the molecules rub one another a lot as they stretch and then return to their original shape after impact, most of the ball's impact energy is lost as heat due to friction. Little energy is left to make the ball bounce.



FOLLOW



- Compare the balls:
- Do they look the same?
 - Do they feel the same?
 - Is their chemical structure the same?



AND THE MAGIC CONTINUES...



A B C D E F G

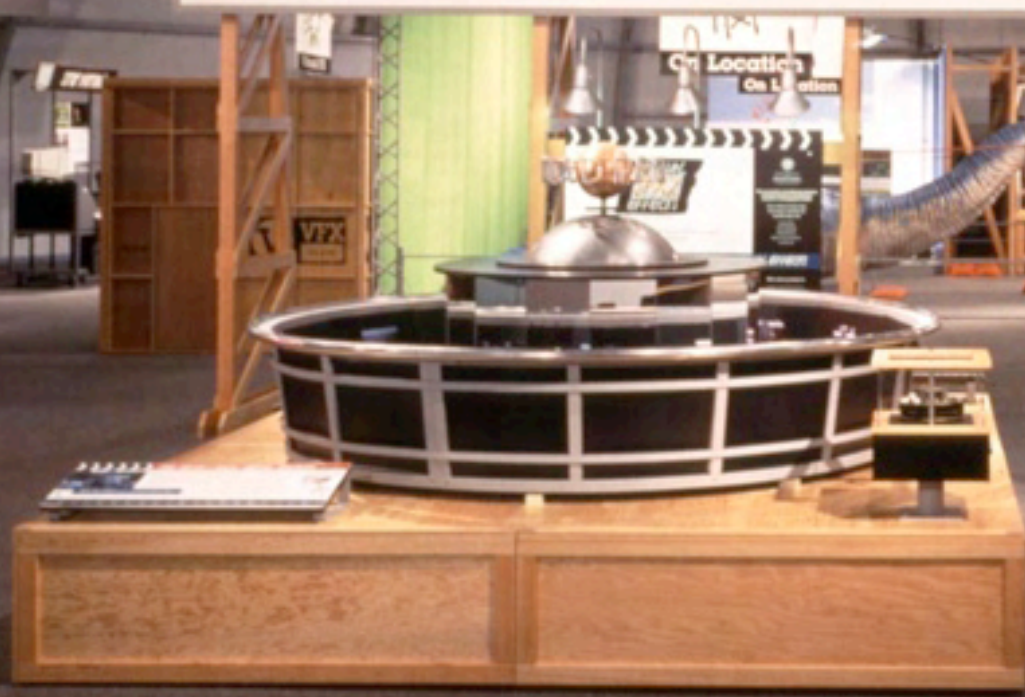
H I J K L M N

O P Q R S T U

V W X Y Z

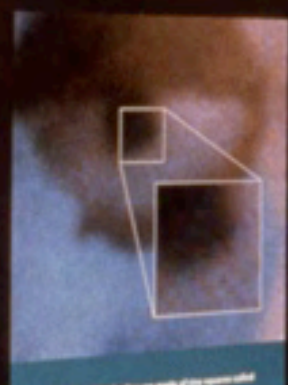


SPECIAL EFFECTS 2





DIGITAL BIG SCREEN



These creatures were drawn using a computer.

If you look closely, they are made of tiny squares called "pixels". Each pixel is filled with a color code.

Each color has a code. In the color "green", the computer inserts a string of numbers.

THE DIGITAL WORKFLOW

1. Storyboarding

2. Pre-visualization

3. Modeling

4. Texturing

5. Rigging

6. Animation

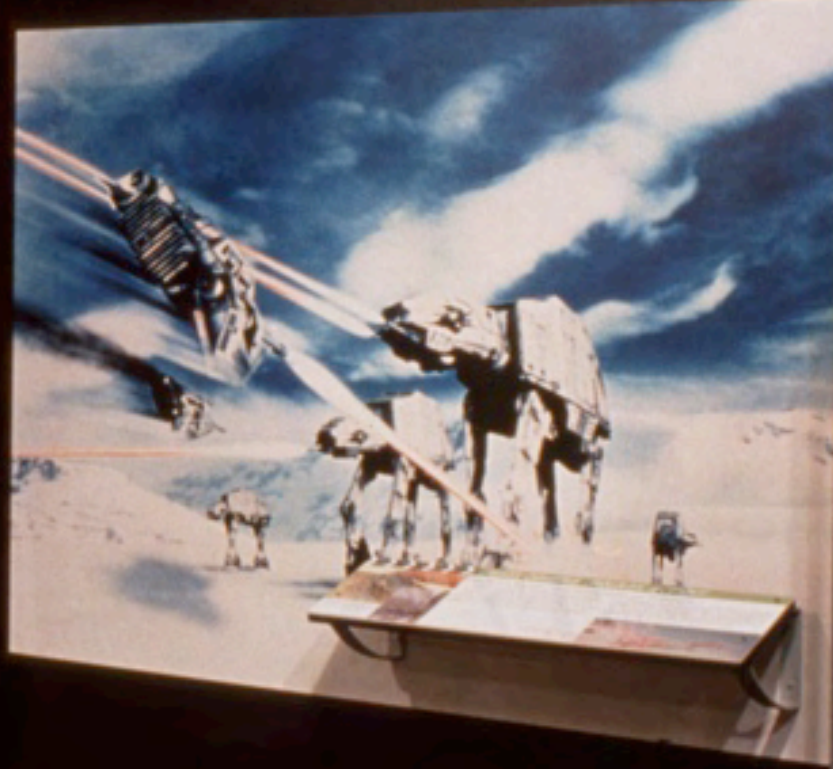
7. Rendering

8. Compositing

9. Final Output



MOTION CONTROL





GrafCo: Mayor's Office of Housing, SF

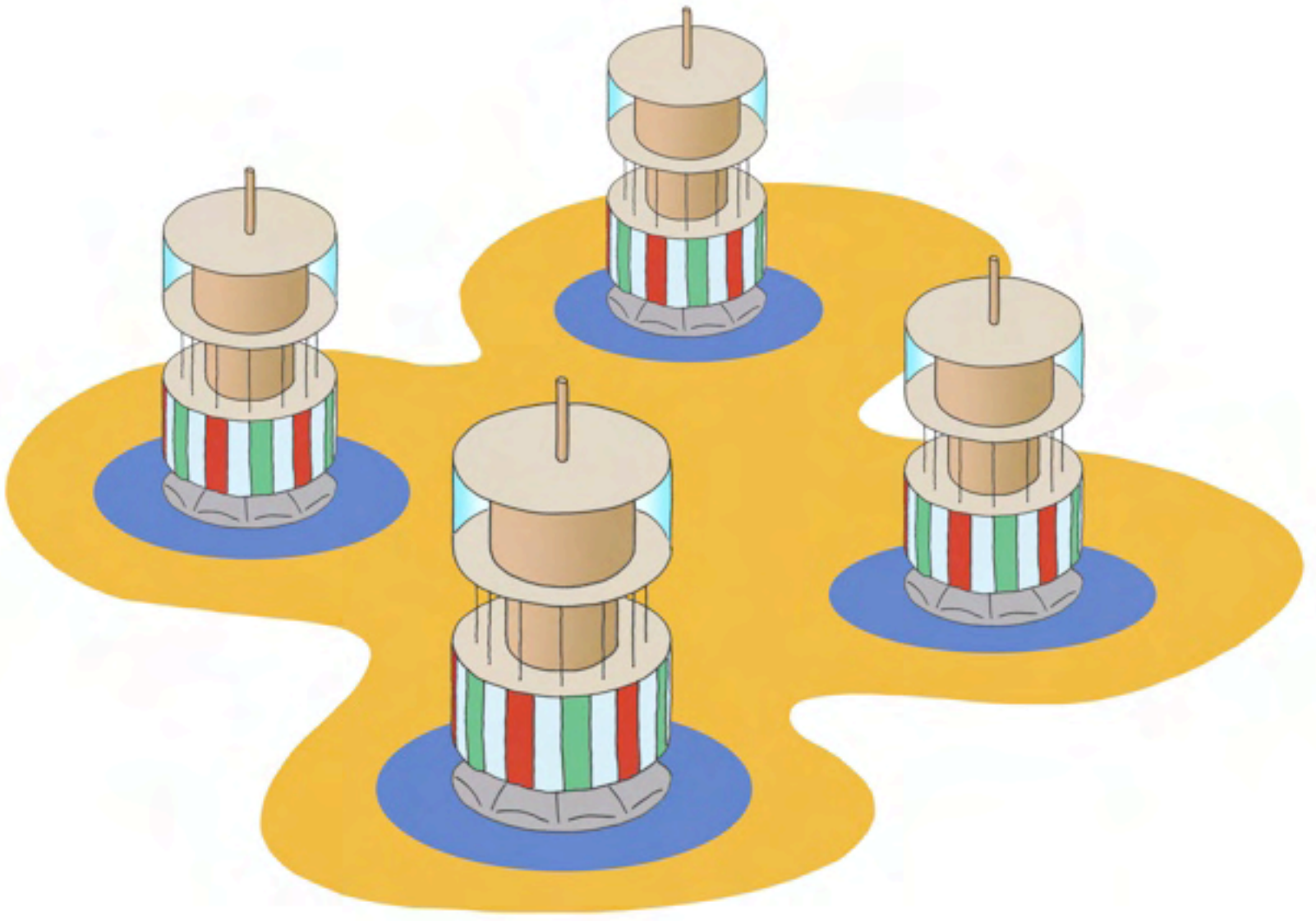


GrafCo:
Recycling Exhibit



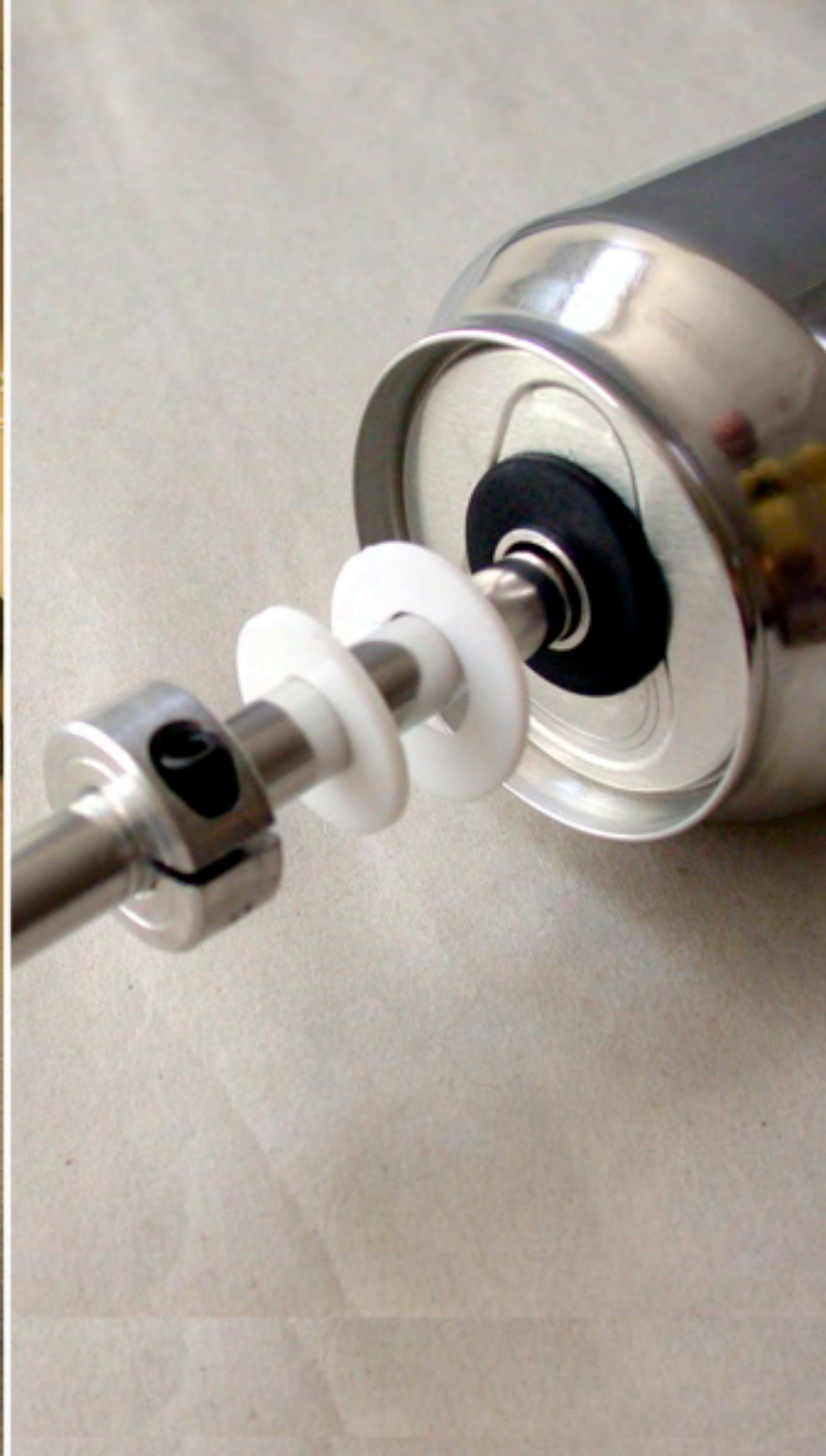








ALUMINUM RECYCLING



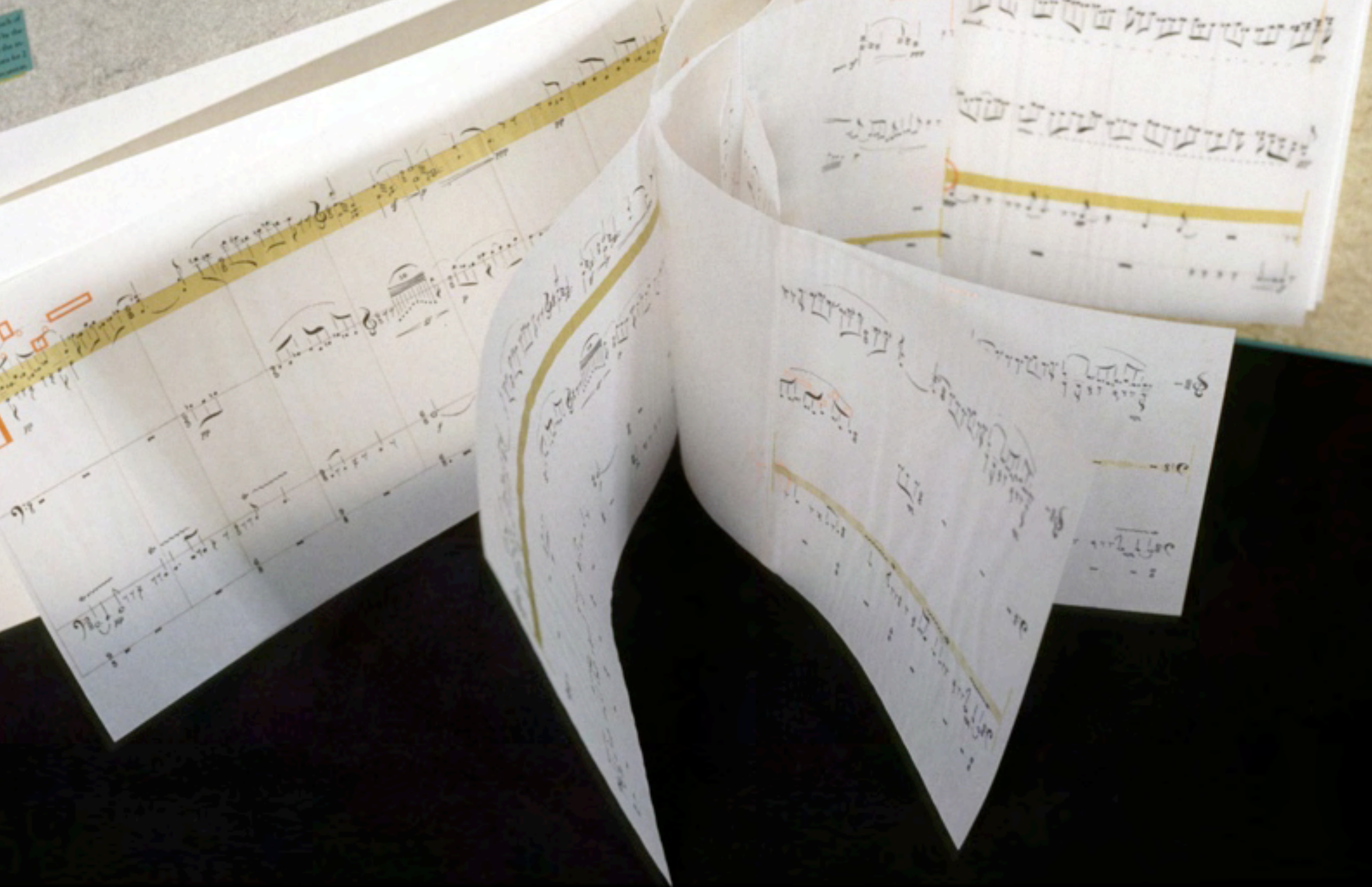
TEACHING

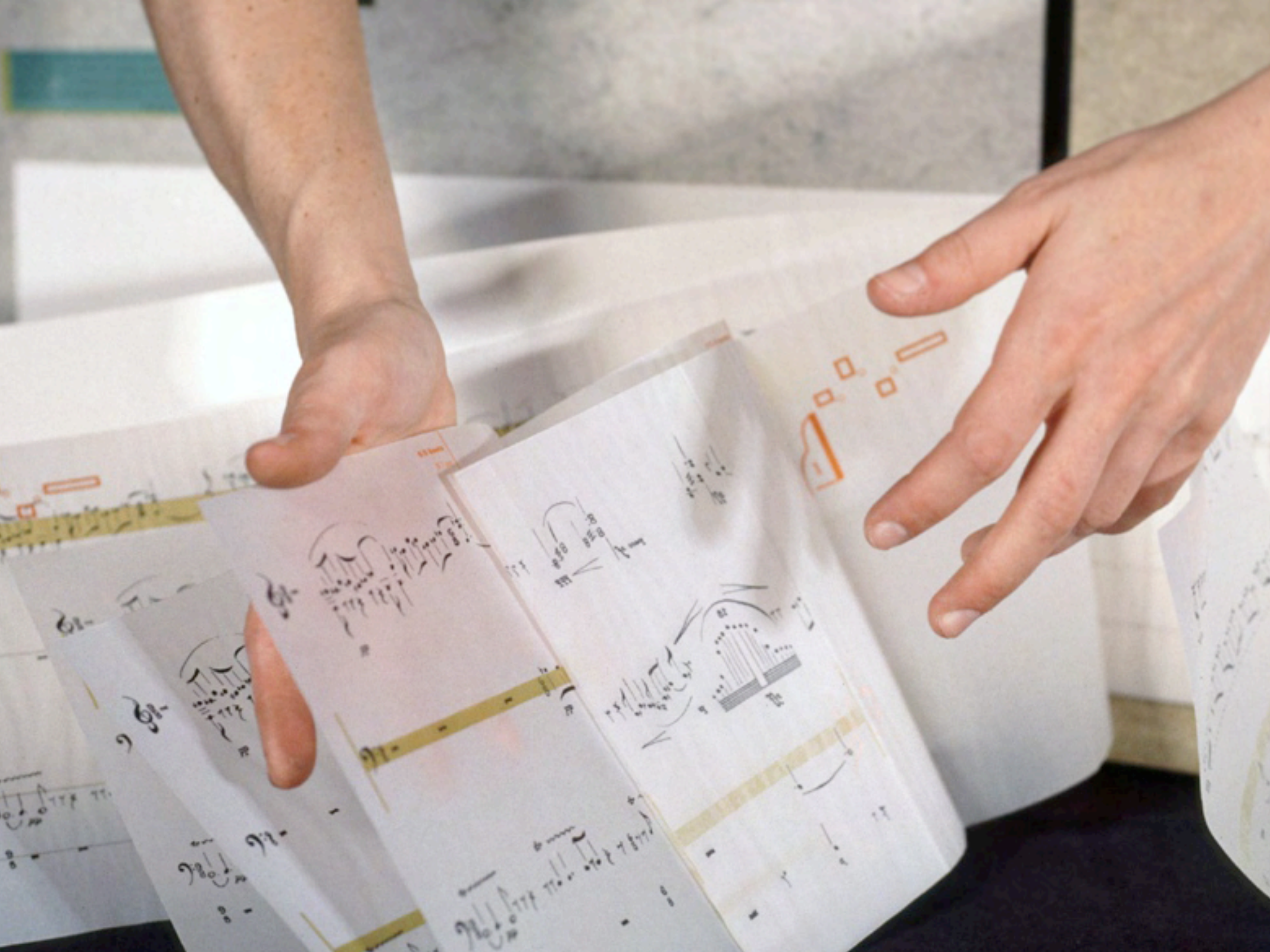


**Virginia
Commonwealth
University
Richmond, VA**



Bela Bartok and the Golden Section
Laura Mitchell







Typography, My Way

Distraction the essence of all things good,
I tie my arms upon you like a bow,
missing over inadequacies,
fitting parallels and the tips of ruling pens
into some slanted perspective.

It is all at my fingertips.

The room so angular, so pointed and particular,
I spy myself in pairs of pupils - such a face.

Before they invented compasses,
how were the circles born?
On sea foam like fair Aphrodite,
or through the grasping of determined fingers,
curling in as leaves.

No matter

You hug me, all words gone,
and there is nothing left for letterforms to say,
the jointed slurs of speech bubble around us,
beautiful without line, unknown to ink or rule or pen

perfect in their clarity

Anonymous

Typography
My Way

Colophon

The poem *Typography, My Way* was written in 1991 by a student of typography at Virginia Commonwealth University, Richmond, VA. Transcribed by the teacher Pino Trogu and rediscovered in 2005 in San Francisco. It was first published by Jack W. Stauffacher of The Greenwood Press, as part of a limited edition boxed set of poetry entitled *Verve into TYPE*, the APHA Poetry Portfolio. American Printing History Association, 2006.

This 4-page broadside was designed and produced by Wilfred Castillo, as part of DSGD 184, Digital Applications Methodology, a graphic design class taught in the fall of 2006. School of Art and Design, San Jose State University, California, USA.

Additional text: Poets are sometimes analyzed by their handwriting to reveal their personality. Knowing poets' personalities, we see how their traits can influence their poetry. I reveal this by the strokes of an ink calligraphy pen. Connecting the poem as a whole, the ink strokes reveal its own visual interpretation of the poem and a sense of the poet's state of mind when the poem was written.

Typefaces: Flemish Script Regular, Minion Pro Regular, Minion Pro Semibold Italic, Frutiger Regular, Frutiger Bold

Illustrations: Wilfred Castillo

Broadside n. 12 of 26

Copyright © Wilfred Castillo, 2006

San Jose State
University, CA

typography

Colophon The poem *Typography, My Way* was written in 1999 by a student of typography at Virginia Commonwealth University, Richmond, VA. Transcribed by the teacher Pino Trope and rediscovered in 2009 in San Francisco. It was first published by Jack W. Stauffer of The Greenwood Press, as part of a limited edition board set of poetry entitled *Words into TYPE*, the APHA Poetry Portfolio. American Printing History Association, 2006.

This 4-page broadside was designed and produced by Mayana Hoods, as part of DSGD 066, Digital Applications Methodology, a graphic design class taught in the fall of 2006. School of Art and Design, San Jose State University, California, USA. According to Hoods' interpretation, the poem describes typography through two human

senses, seeing and hearing. And she visualizes the three significant scenes of the poem with the two human senses: the angular letters through the writer's eyes, the circular forms of the nature through the antiquity's eye, and the letters merging into the air and becoming the invisible sounds.

Additional text: Mayana Hoods
Typfaces: Roman Antique
Illustrations: Anatomy of the eye and orbit
An Atlas of Anatomy for Artists
Mayana Hoods
Broadside is: 14 of 28
Copyright © Mayana Hoods, 2006



seeing hearing, feeling

Typography, My Way

Distraction the essence of all things good.
I tie my arms upon you like a bow,
musing over inadequacies,
fitting parallels and the tips of ruling pens
into some shocked perspective.

It is vast at my wingtips.

The room so angular, so pointed and particular,
I spy myself in pairs of pupils — such a face.

Before they invented compasses,
how were the circles born?

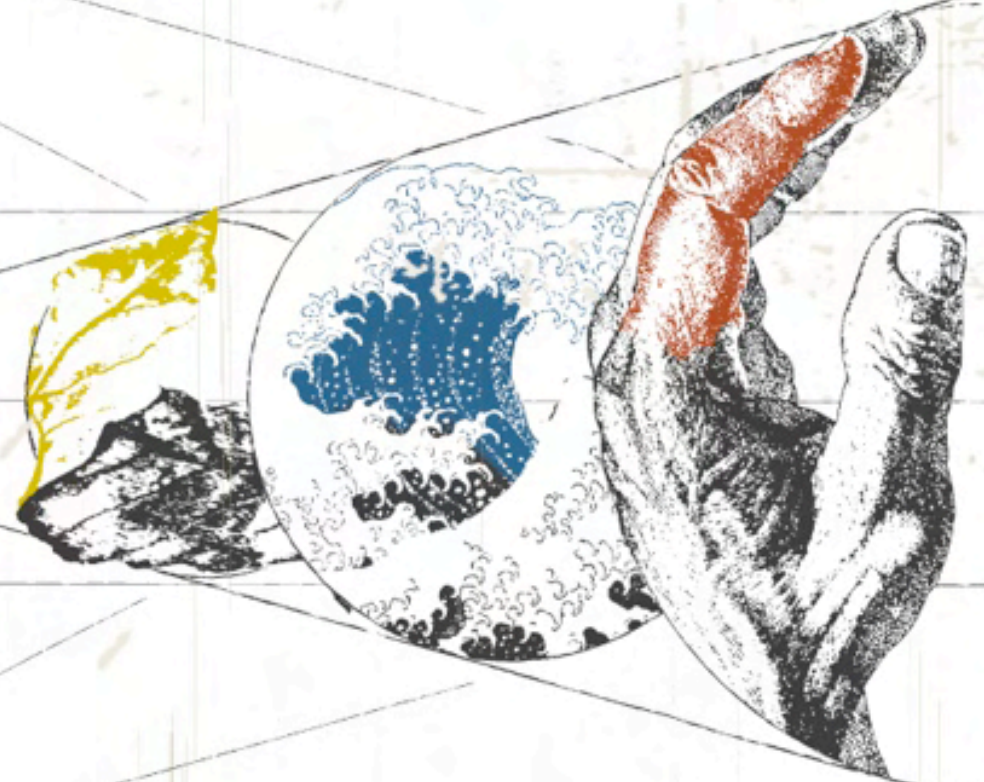
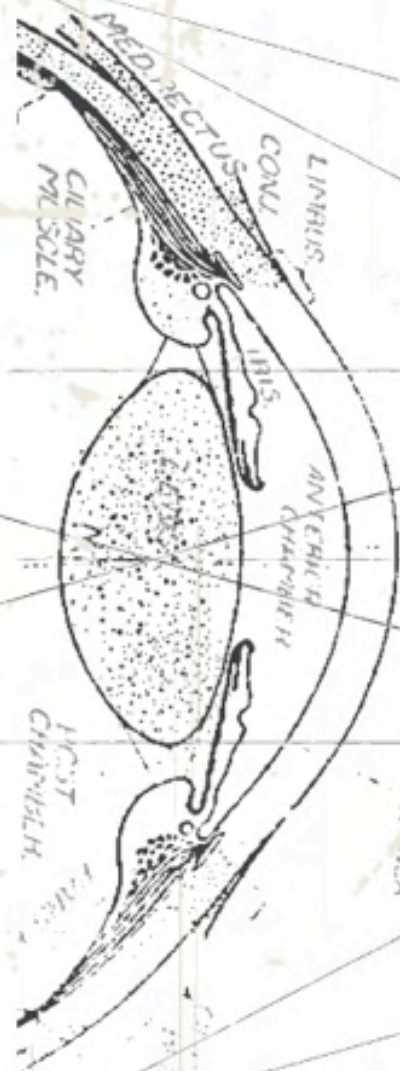
On sea foam like fair Aphrodite,
or through the grasping of determined fingers,
curling in as leaves!

No matter

You hug me, all words gone,
and there is nothing left for letterforms to say,
the jointed stirs of speech bubble around us,
beautiful without line, unknown to ink or rule or pen

perfect in their clarity

Anonymous





Colophon:

The poem *Typography, My Way* was written in 1991 by a student of typography at Virginia Commonwealth University, Richmond, VA. Transcribed by the teacher Pino Trogi and rediscovered in 2005 in San Francisco. It was first published by Jack W. Stauffacher of The Greenwood Press, as part of a limited edition boxed set of poetry entitled *Verses Into TYPE*, the APHA Poetry Portfolio, American Printing History Association, 2006.

This 4-page broadside was designed and produced by Brittany Denzler, as part of DSGD 186, Digital Applications Methodology, a graphic design class taught in the fall of 2006, School of Art and Design, San Jose State University, California, USA.

Typefaces: Franklin Gothic Book, Helvetica

Broadside n. 1 of 26

Copyright © Brittany Denzler, 2006

Typography, My Way

before they invented compasses,

can't we just be friends?

how were circles born?

don't want to go back to circles

was so happy

fourteen times without coming

oh man you have to
i won't forget

fourteen times without coming
the jointed slurs of speech bubble around us
let me borrow a pencil
forget it!
do we have homework due tomorrow
he wouldn't just leave it alone
you see that movie though
and had a cup of
can't we just be friends?

beautiful without line, unknown to ink or rule or pen

don't want to go back to class
that wasn't my intent at all
I won't forget
oh man you have to
that teacher sucks take
see last night's episode
leave me alone weird
five assignments on the first day

perfect in their clarity

Typography, My Way

Distraction the essence of all things good,
I tie my arms upon you like a bow,
musing over inadequacies,
fitting parallelisms and the tips of ruling pens
into some shocked perspective,

It is vast at my fingertips,
The room so angular, so pointed and particular,
I spy myself in pairs of pupils – such a face,

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Anonymous

typewriter

mechanical to electronic

A typewriter is a mechanical, electromechanical, or electronic device that prints letters on paper. Typewriters have changed significantly in the modern era. The most remarkable development was the transition from mechanical to electronic typewriters.

history

The first typewriter that enabled operators to write significantly faster than a person could write by hand was invented by Christopher L. Sholes and Carlos Glidden. Then E. Remington & Sons purchased the rights and manufacture began in 1874. To avoid jamming typebars with adjacent and commonly used pairs of letters, Sholes and Glidden intentionally arranged the keyboard layout in a way that made typists slow down. The name of the system "QWERTY" comes

from the first six letters in the top alphabet row. "QWERTY" system is still the standard for many keyboards. George Blickensderfer produced the first electric typewriter in 1902, but practical electric typewriters were used extensively after 1925. Compared to non-electric typewriters, electric ones respond to the light touch, and apply identical pressure leading to even depth and uniform color. The first electronic typewriter was invented by Olivetti in 1978 and came with a small memory chip that displayed what was being typed before it was actually transferred to paper, allowing the operator to go back and correct mistakes before they ruined the whole page.



1304 The woman typing the typewriter



1575 Typewriter Patent Drawing, featuring the QWERTY keyboard

analog



1874

The first practical typewriter
Produced by Christopher L. Sholes and Carlos Glidden
Introduced by E. Remington & Sons



1902

The first electric typewriter
Produced and introduced by George Blickensderfer



1961

The revolutionary typewriter
SELECTRIC TYPEWRITER
Produced and introduced by IBM
Characterized by spherical type ball for eliminating of jams and allowing multiple fonts

1978

The first electronic typewriter
E1-101
Produced and introduced by Olivetti



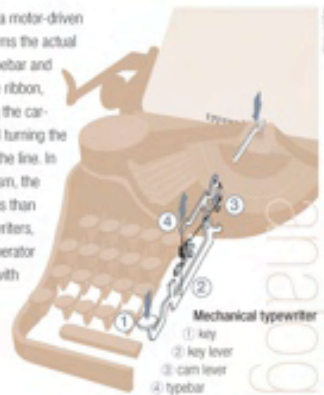
digital

mechanical tech

A manual typewriter is a mechanical device that contains a system of levers. It converts the small movement of a fingertip on a key into a long movement — in this case the movement of the raised type on the end of the typebar. As the typewriter is always played strongly, a simple system of levers suffices to mechanically connect the key to the typebar. Most manual typewriters use at least five levers between key and typebar. Pressing a key causes

mechanical force that transmits to each lever. By this mechanics, the typebar is lifted and strikes on the ink ribbon. For moving the paper between letters and between lines, most typewriters use a cylindrical platen, against which the paper is held firmly. Each typebar bears both upper- and lower-case letters. Pressing the shift key lowers the typebar so that the upper-case letter strikes the ribbon. The platen moves horizontally to produce the spacing between lines. An electric typewriter is an electromechanical

device that contains a motor-driven mechanism. It performs the actual work of lifting the typebar and striking it against the ribbon, and also of returning the carriage to the right and turning the platen at the end of the line. In the electric mechanism, the pressure is much less than on mechanical typewriters, and as a result an operator can type faster and with less fatigue.



electronic tech

A hybrid between electric typewriters and computers, electronic typewriters—which contain a microprocessor and microchips, can automatically center headings, align decimal points in numerical tables, and flag words that are not found in its spell-check memory. Most electronic typewriters also permit rudimentary editing of text before printing through the use of a small liquid crystal display window. Pressing a key generates an elec-

tric signal forming a code number that identifies the key. The code number is in the form of bits made up of on-off electric pulses. This digital signal of the code number goes through the pair of lines, the keyboard chip, the microprocessor, and the display chip or the print chip. For example, a metal contact in a rubber dome under key B touches two contacts at the end of a pair of lines. As the contact meet, a scanning signal goes along the lines to the keyboard chip. The chip converts the signal into the code

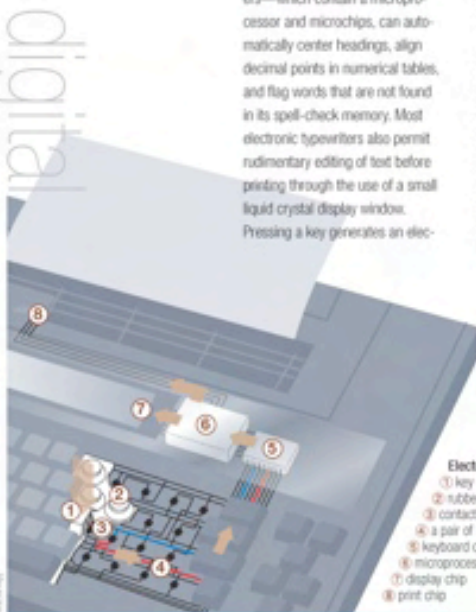
number 00110000 (base ten 48), and sends it out to the microprocessor. The code number is converted again to 01100010 (8E) in the microprocessor, and travels to the display chip or the print chip that display the code number as the character.

today

Typewriters are now very rare in the Western World because personal computers have become very popular. Today, computers replace typewriters almost completely. Unlike typewriters that manage only one simple task, General-purpose personal computers with word processing software largely deal with complicated multiple tasks.



The laptop computer
iMac G4
Produced by Apple



Electronic typewriter
① key
② rubber dome
③ contact
④ a pair of lines
⑤ keyboard chip
⑥ microprocessor
⑦ display chip
⑧ print chip

The History Channel
www.history.com

How Products Are Made
www.madehow.com

The New Way Things Work
By David Macaulay
Magnum Photos, Boston, 1998

Resources

Digital-Analog Design Punch Cards is a set of research cards designed and produced by the students of DSGD 186, Digital Applications Methodology, a third-year graphic design course at San Jose State University, Fall 2006. The set, composed of 1+26 cards, is by no means complete. Each topic was chosen and researched by the students, based on a theme presented by the instructor Pino Trogu, with help from Mauro Panzeri. This is card number 14 and it was designed by **Mayumi Honda**.



DSGD 186
Digital Applications
Methodology
School of Art and Design
San Jose State University
California, USA - October 2006
Digital-Analog Card No. 14
Printed by psPrint.com

Electric Guitar

definition

guitar

a stringed musical instrument having a long, fretted neck, a flat-backed body, and played by strumming or plucking

electric

producing, transmitting, or operated by electricity

description

Since the creation of guitar-like instruments, the guitar has gone from an instrument only for entertaining royalty to one for a traveling musician. While the 21st century musician might be neither of the two, the guitar is now a common instrument even for the amateur whether acoustic or electric.

Over time, many variations of the guitar have been made. Some, like the bass, became forever popular. Despite the changes to form or style, the guitar remains a perfect instrument to lead or accompany any ensemble.

main parts

- headstock
- frets
- strings
- neck and fretboard
- body
- pickups
- pickguard
- bridge



electric guitar, detail

history

16th century

Introduced to New World by Columbus.

17th

In Baroque Europe, it's played as a courtly instrument or royalty with an added fifth pair of strings. The style combines elements of polyphonic lute playing with chordal strumming techniques used by popular musicians.

18th

The traveling French and English bring the guitar to settlements in North America.

18, 19th

In the Classical era, a new louder 6 single string arrives and is a favorite of the chamber music scene.

19th

Folk develops among gypsies in southern Spain creating Flamenco style and guitars.

19, 20th

Factory production creates cheaper prices of guitars, making them more available to common people.

20th

George Beauchamp patents the electric guitar and co-founds Rickenbacker, which uses the horseshoe-magnet pickup. The company of the late C.F. Martin releases first guitar made for steel strings, leading to the Western guitar. Martin steel-strings are still made today. Danelectro guitar company pioneers tube-amp technology and is first to produce electric guitars for the wider public.

electric vs. acoustic

The electric guitar is quite different from the acoustic guitar in several ways. An acoustic guitar has a soundboard and a sound hole which are a large part of the sound amplification. Electric guitars do not have soundboards or holes because they use pickups to transmit sound to an amplifier. Pickups look like small metal buttons sitting beneath the strings on the body. They are individual magnets wrapped together in copper wire underneath the surface of the body. The wire and magnets create a sensitive magnetic field that detect the slightest vibrations in the strings. The detections are transmitted to an amplifier as electrical energy and translated into sound through the speaker. Electronic devices on the body of the guitar can change volume and other aspects of the output sound during play. Devices on the amplifier or mixer can distort the sound and create interesting variations of the classic sound.

One thing that has had slight variations but has stayed fundamentally the same throughout the ages is the guitar body. The body of the electric guitar, while sometimes slightly hollow, has little to do with the sound of the guitar. But the long history of the classic acoustic guitar shape, which has been crafted to generate the perfect sound, is difficult for society to deviate from. Its pear-shaped body is aesthetically pleasing and is reminiscent of that perfectly mastered instrument. While the electric guitar could be played with only a long thin body the width of its fretboard with the headstock at the top and a bridge at the base keeping the strings taught and in place, it is unlikely that such a shape will ever gain genuine popularity in the music world. As musical technology presses forward, humanity still clings to tradition.



electric guitar, detail

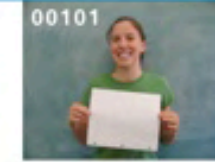


acoustic guitar, detail

references

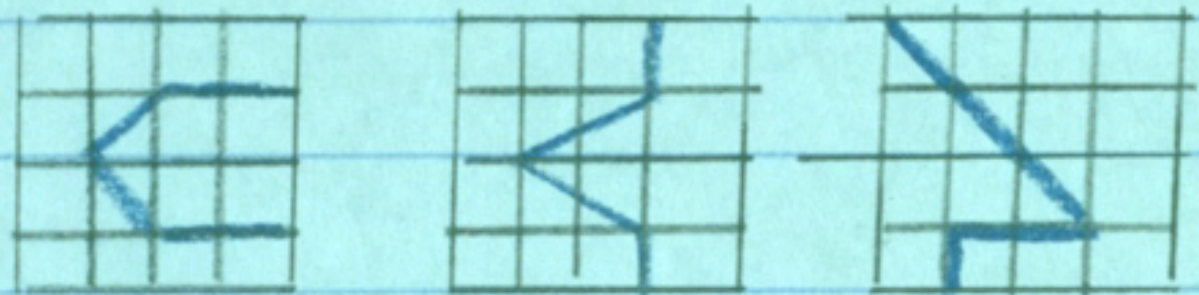
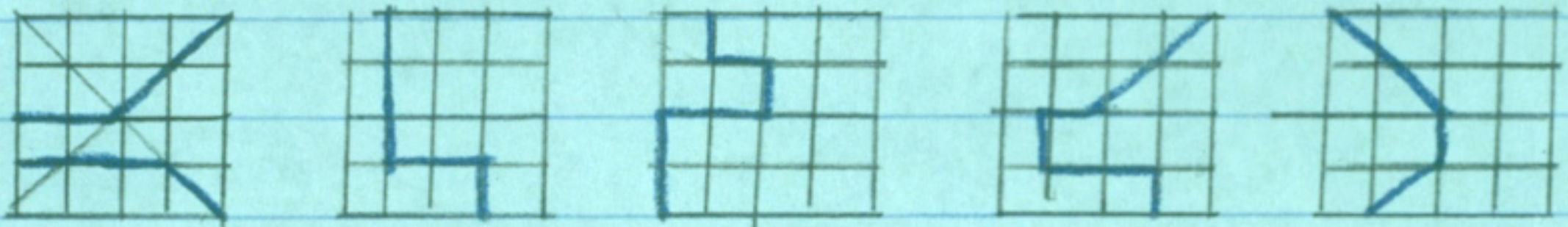
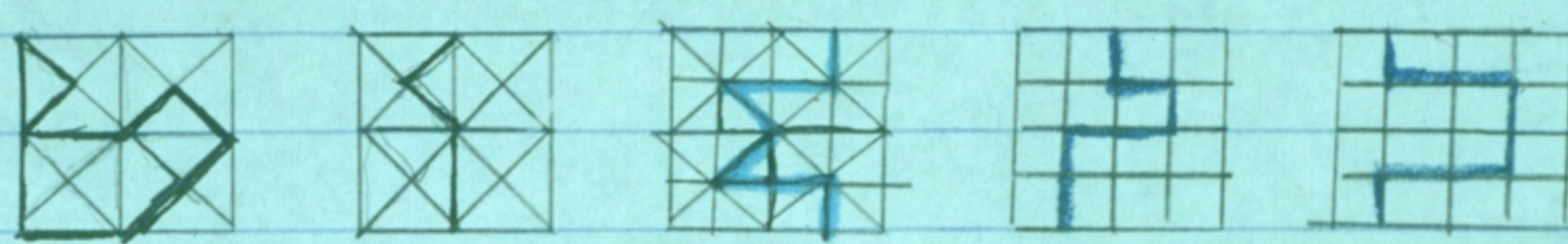
- 1 Macaulay, David. The New Way Things Work. Houghton-Mifflin, Boston, 1998. pg 125
- 2 Martonelli, Romana, Grant Sustafson, Bill Porze. "Guitar: Past, present and future". Music Educators Journal, Mar 98, v. 84, Issue 5
- 3 wikipedia.com, "guitar"
- 4 all images from istock.com

Digital-Analog Design Punch Cards is a set of research cards designed and produced by the students of DSGD 186, Digital Applications Methodology, a third-year graphic design course at San Jose State University, Fall 2006. The set, composed of 1+26 cards, is by no means complete. Each topic was chosen and researched by the students, based on a theme presented by the instructor Pino Trogu, with help from Mauro Parzeri. This is card number 05 and it was designed by Sarah Alberg

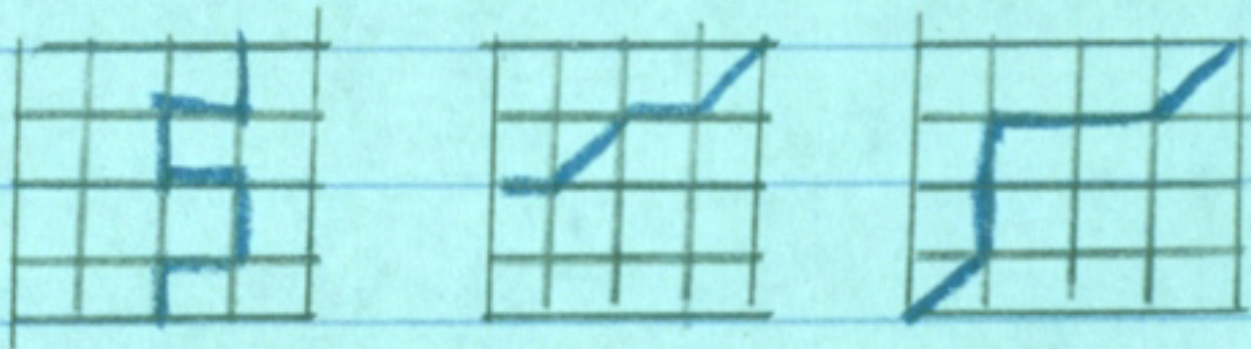


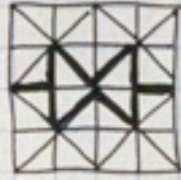
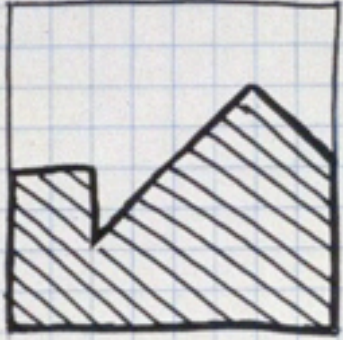
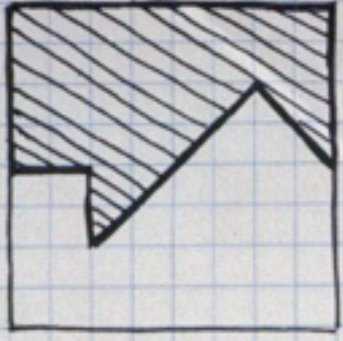
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DSGD 186
Digital Applications
Methodology
School of Art and Design
San Jose State University
California, USA - October 2006
Digital-Analog Card No. 05
Printed by psPrint.com

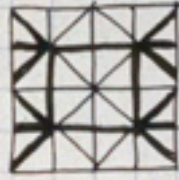


San Francisco
State University

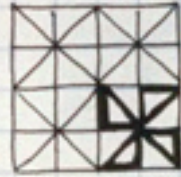




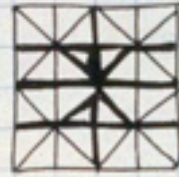
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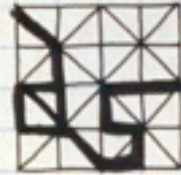
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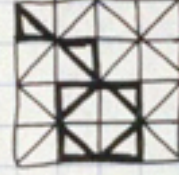
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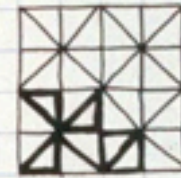
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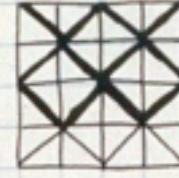
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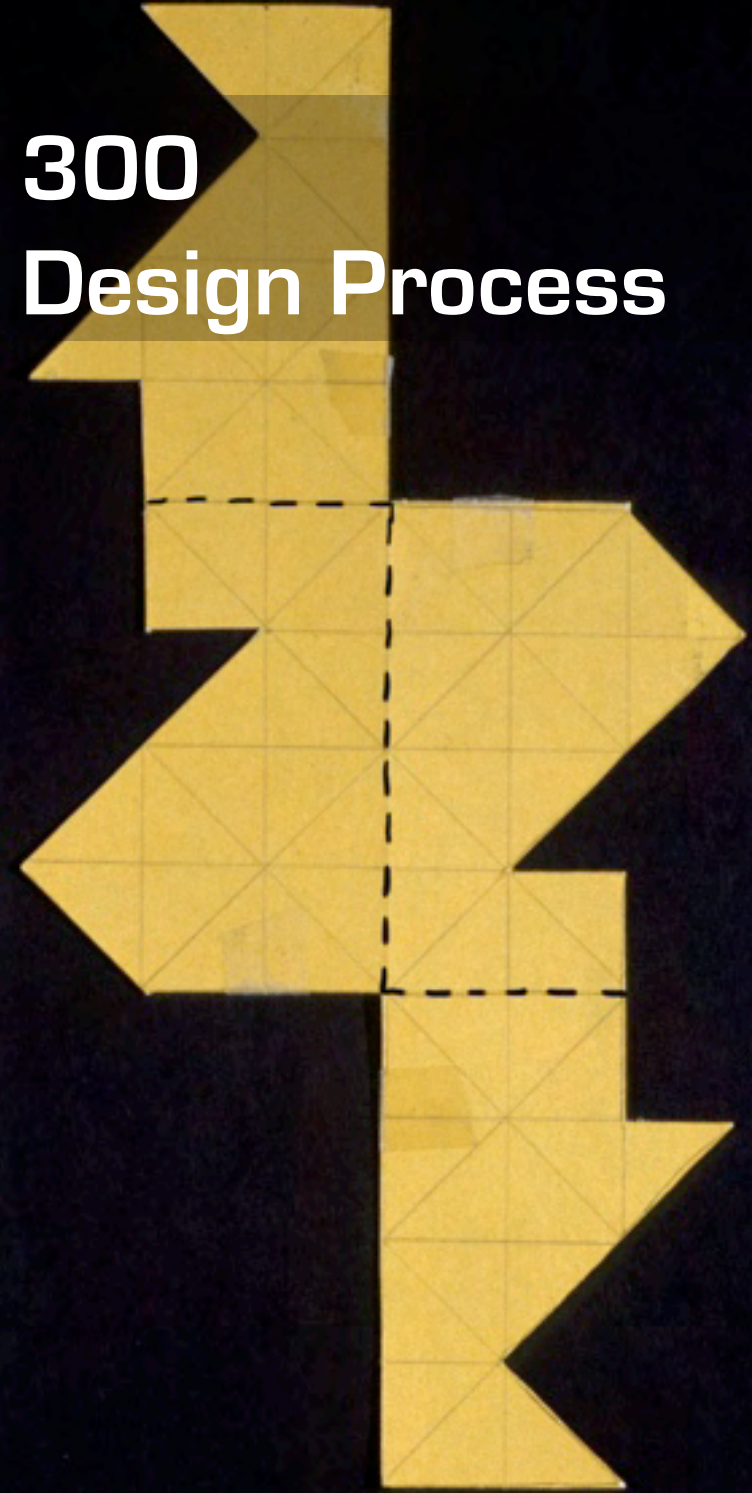
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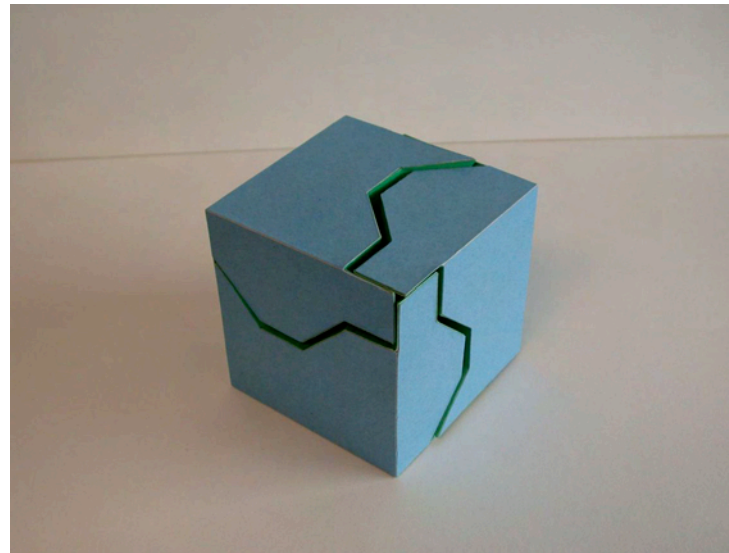
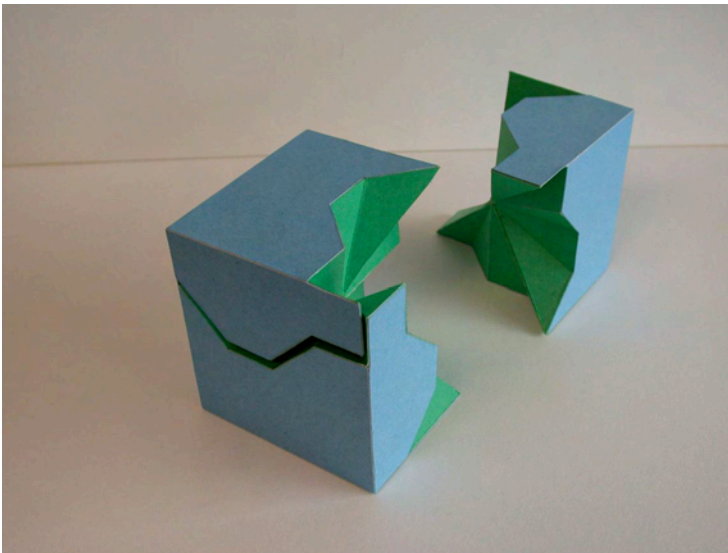
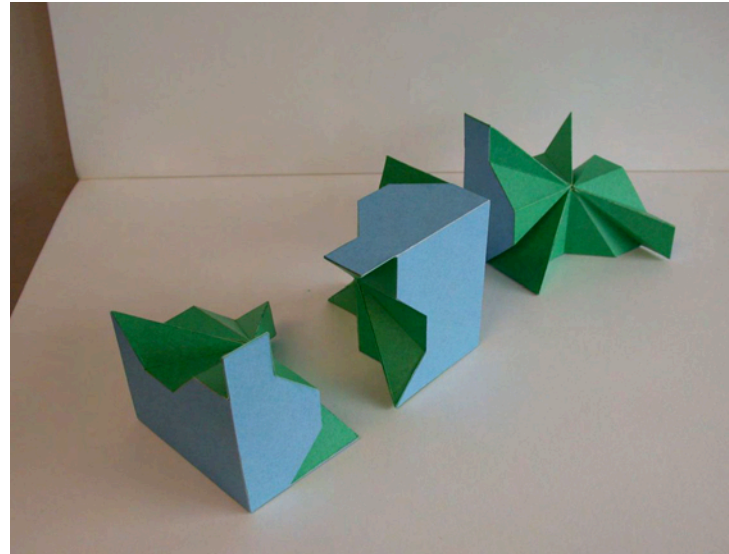
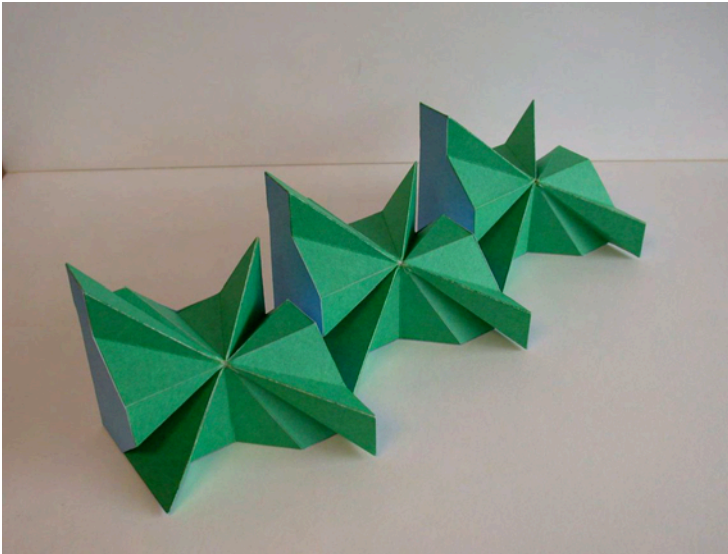
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Design Process



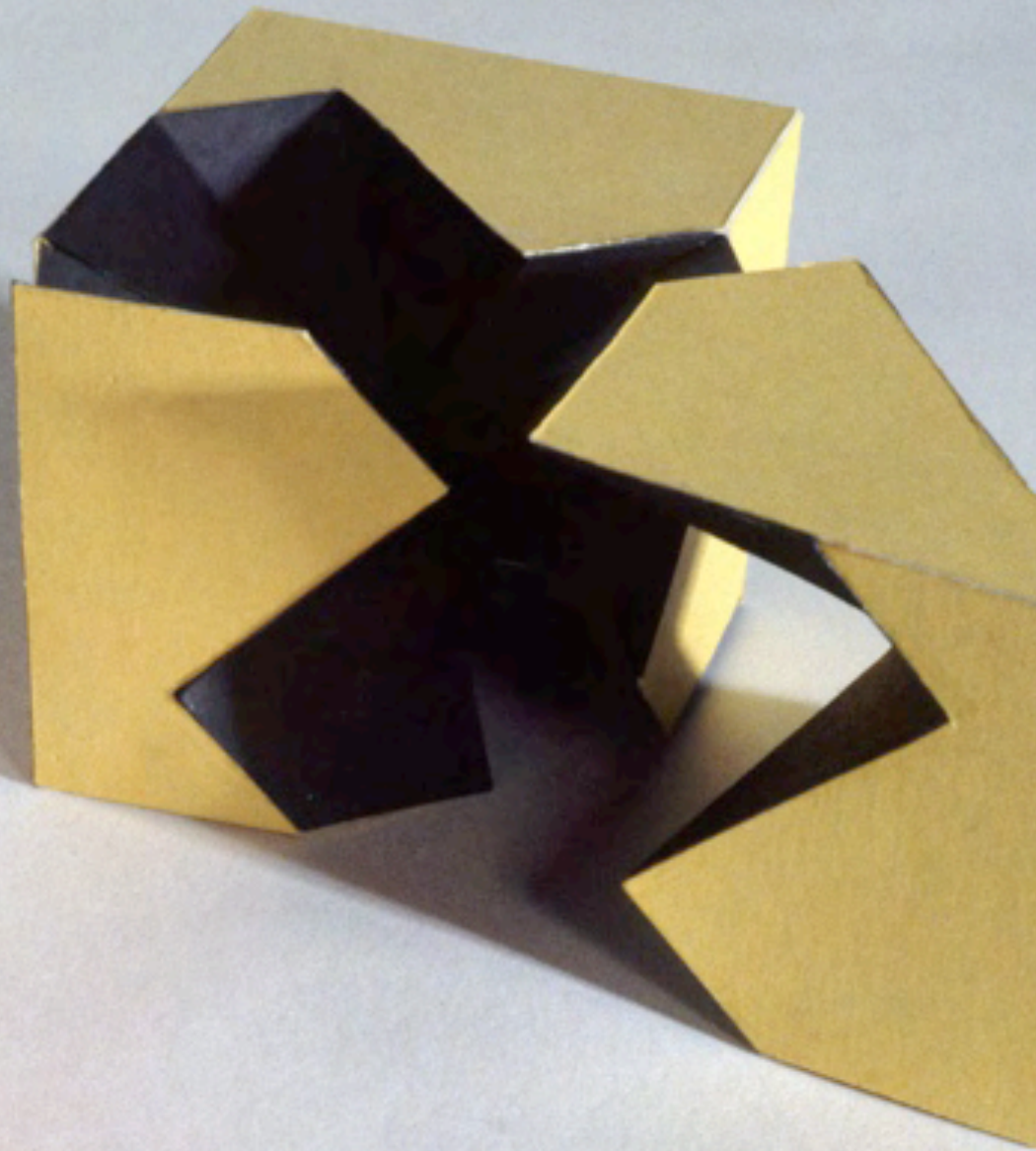
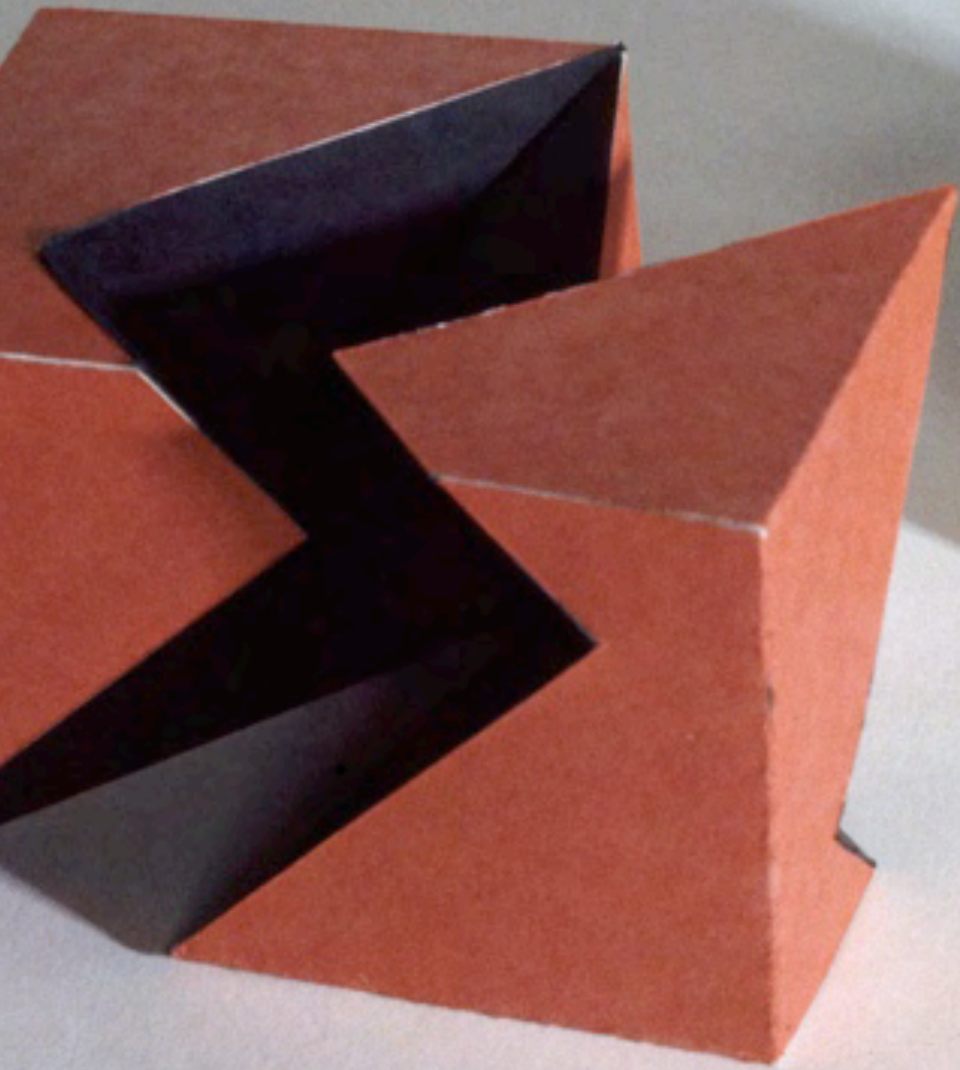
CUBE SECTION – 3 MODULES

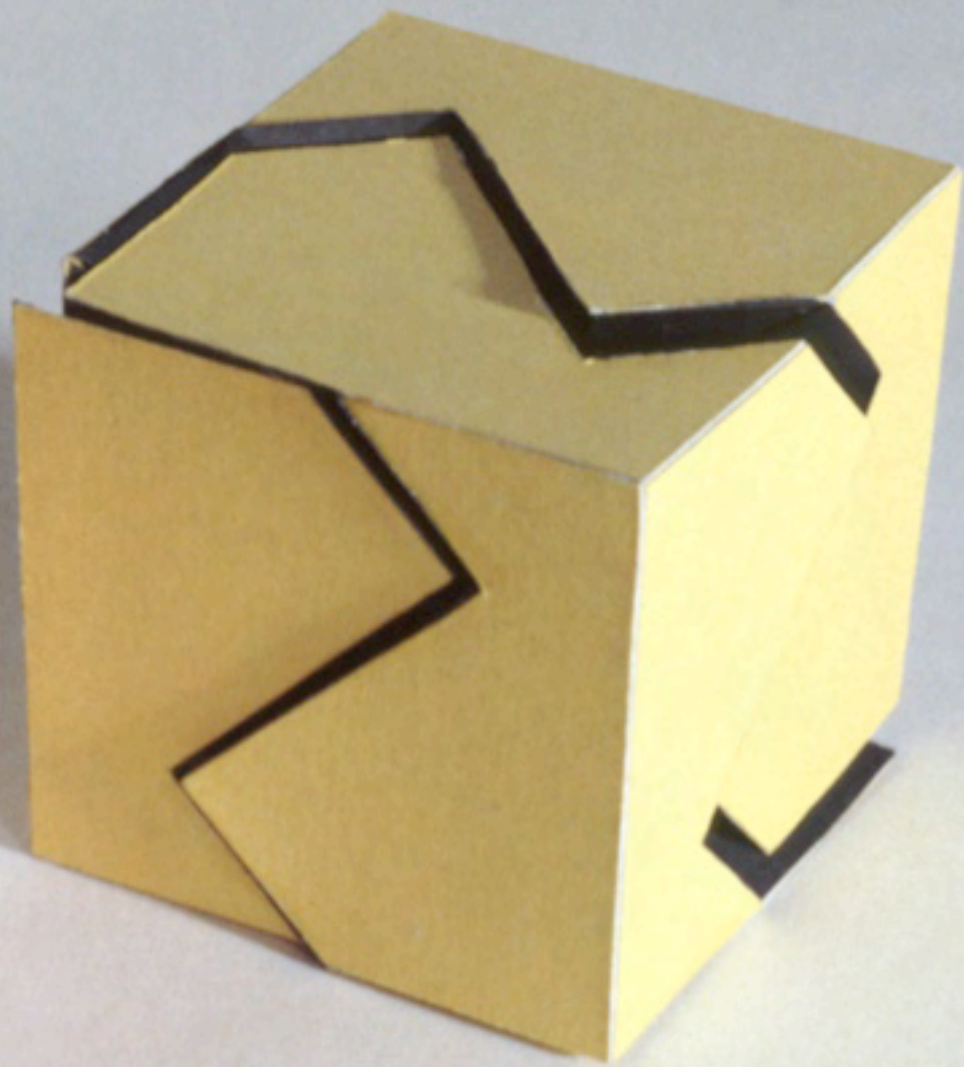
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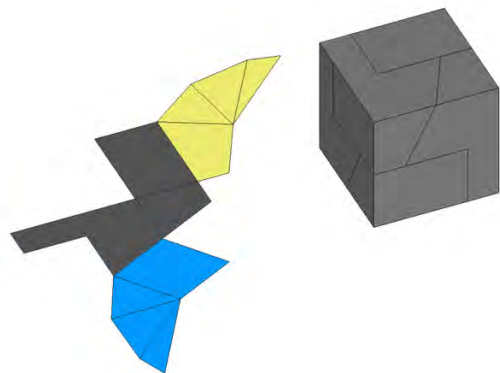
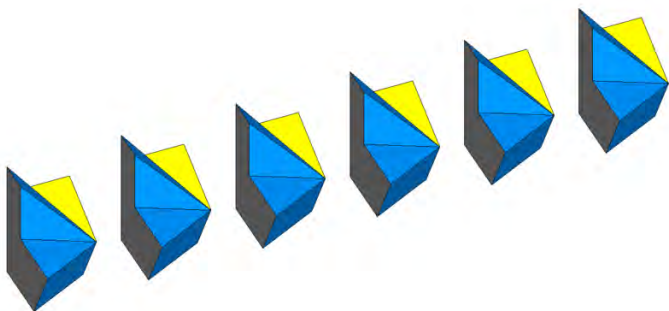
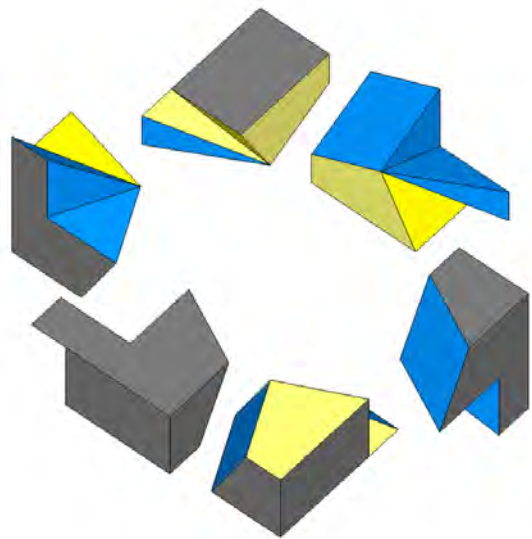
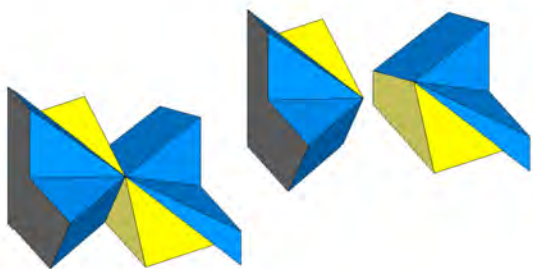
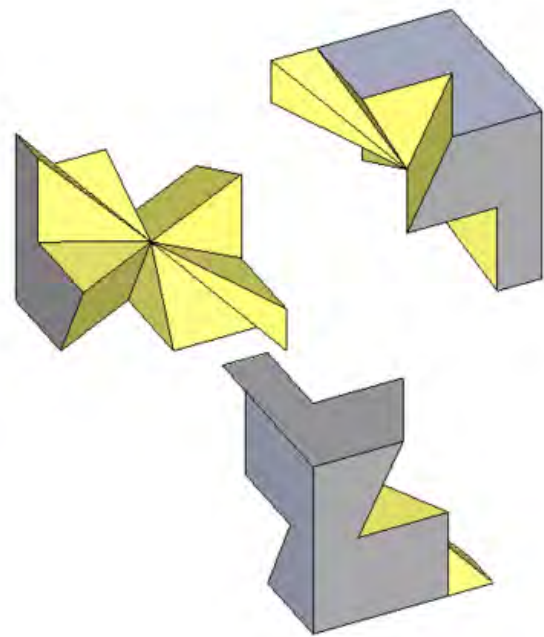
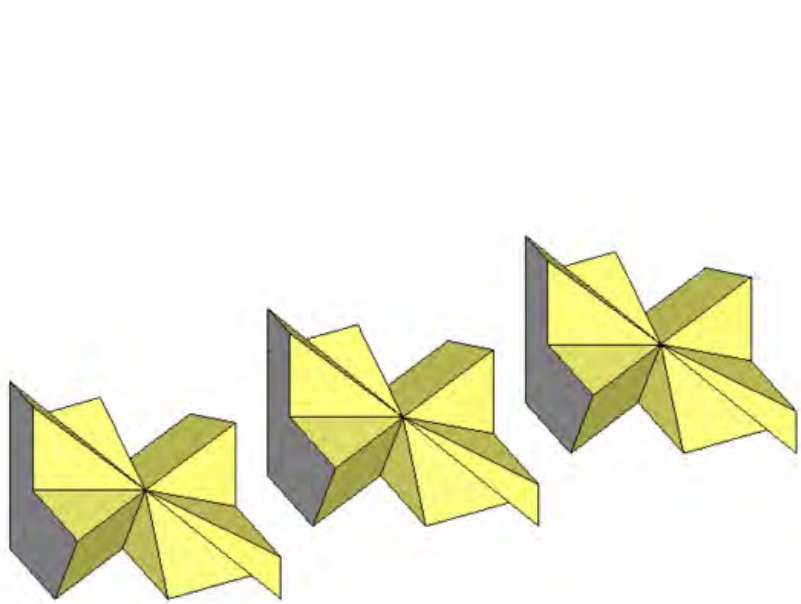


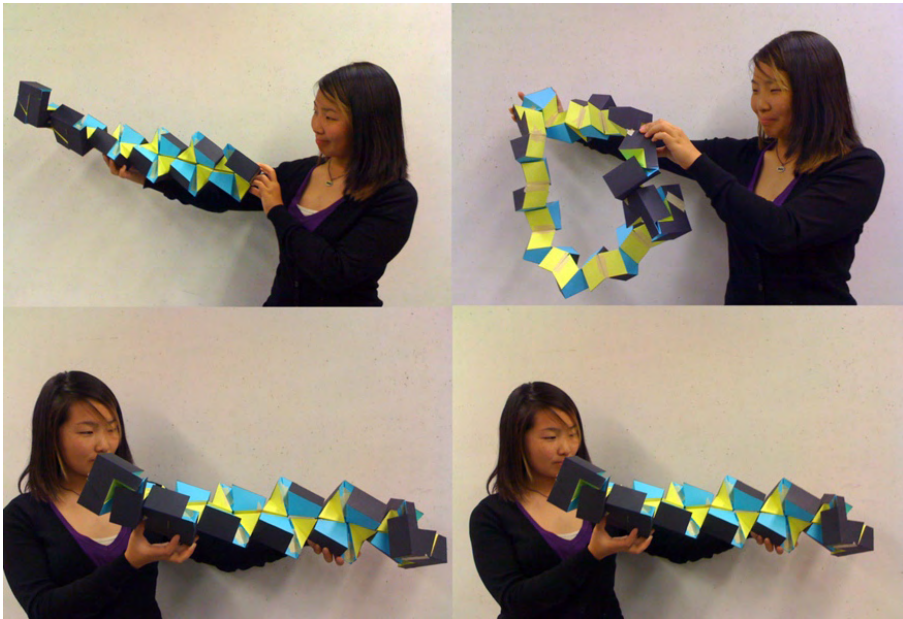
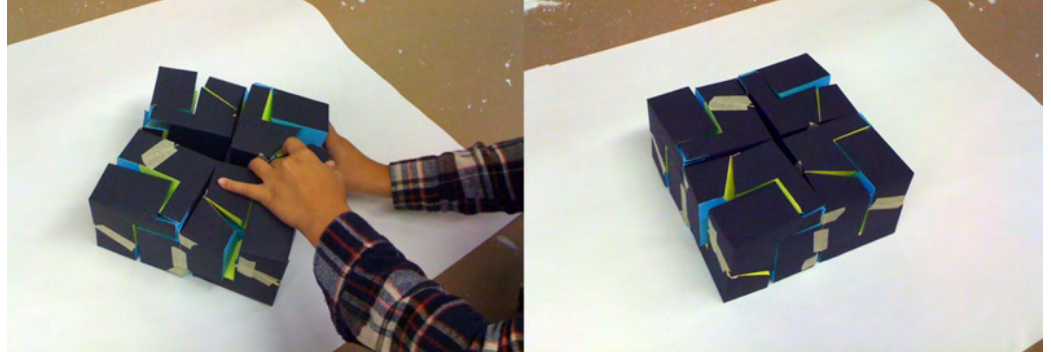
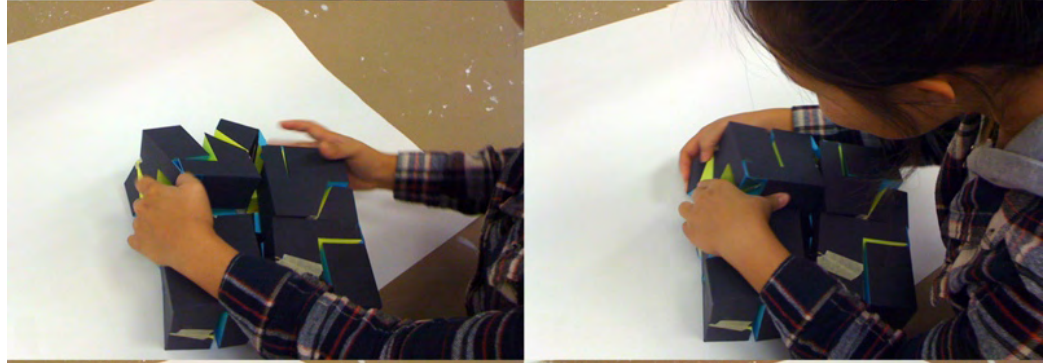
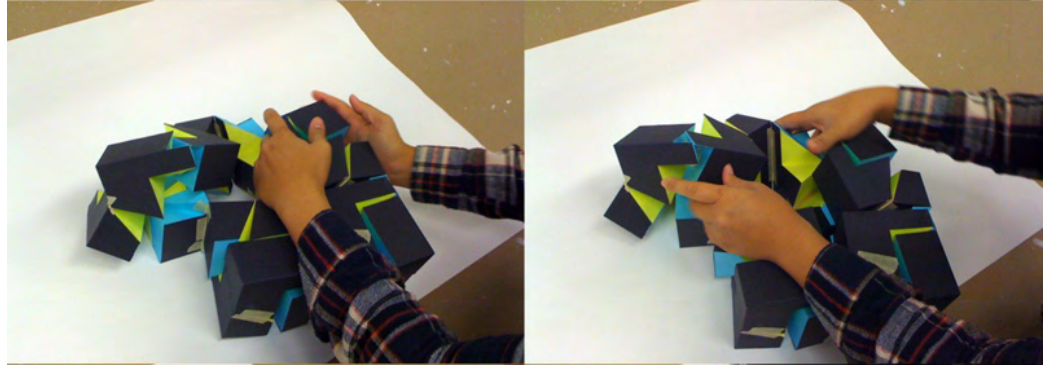
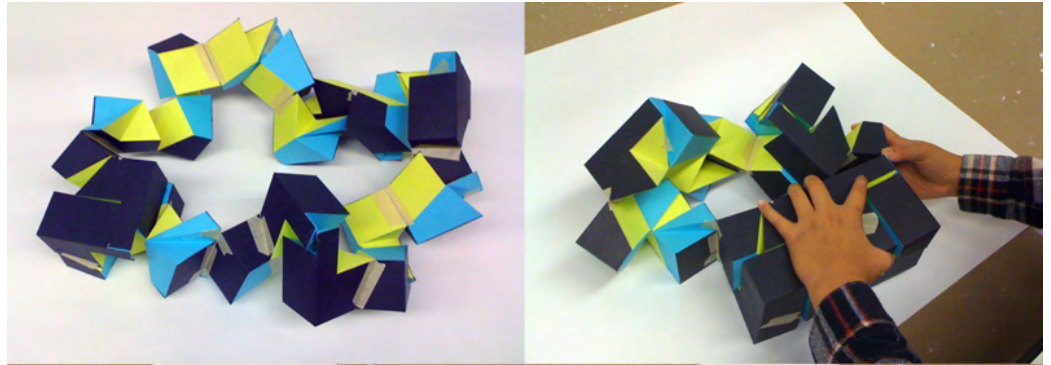
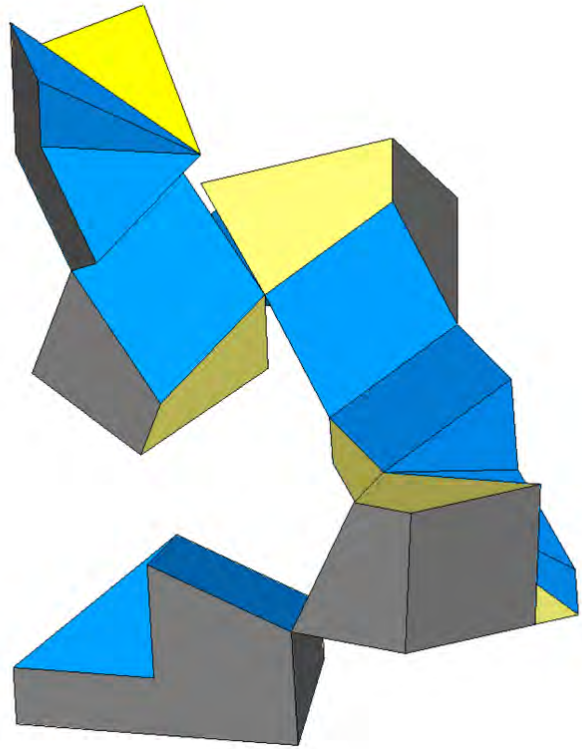
Student: Eugene Wong

Eugene Wong









Florence Yuen

Riding Through History

The Walking Machine

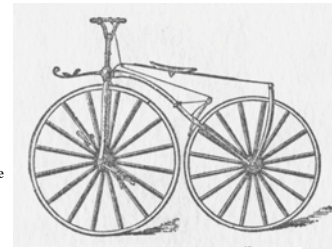
In 1817 Baron von Drais invented a walking machine that would help him get around the royal gardens faster: two same-size in-line wheels, the front one steerable, mounted in a frame which you straddled. The device was propelled by pushing your feet against the ground, thus rolling yourself and the device forward in a sort of gliding walk.



The machine became known as the Draisienne or hobby horse. It was made entirely of wood. This enjoyed a short lived popularity as a fad, not being practical for transportation in any other place than a well maintained pathway such as in a park or garden.

The Bone Shaker

The next appearance of a two-wheeled riding machine was in 1865, when pedals were applied directly to the front wheel. This machine was known as the velocipede ("fast foot"), but was popularly known as the bone shaker, since it was also made entirely of wood, then later with metal tires,



and the combination of these with the cobblestone roads of the day made for an extremely uncomfortable ride. They also became a fad, and indoor riding academies, similar to roller rinks, could be found in large cities.

www.pedalinghistory.com

The Kid's Bike



Introduced just after the First World War by several manufacturers, such as Mead, Sears Roebuck, and Montgomery Ward, to revitalize the bike industry (Schwinn made its big splash slightly later), these designs, now called "classic", featured automobile and motorcycle elements to appeal to kids who, presumably, would rather have a motor. If ever a bike needed a motor, this was

it. These bikes evolved into the most glamorous, fabulous, ostentatious, heavy designs ever. It is unbelievable today that 14-year-old kids could do the tricks that we did on these 65 pound machines! They were built into the middle '50s, by which time they had taken on design elements of jet aircraft and even rockets. By the '60s, they were becoming leaner and simpler.

The Pneumatic-Tired Safety



New Age Bicycle



The Hard-Tired Safety

The High Wheel Safety

The High Wheel Bicycle

In 1870 the first all metal machine appeared. (Previous to this metallurgy was not advanced enough to provide metal which was strong enough to make small, light parts out of.) The pedals were still attached directly to the front wheel with no freewheeling mechanism. Solid rubber tires and the long spokes of the large front wheel provided a much smoother ride than its predecessor. The front wheels became larger and larger as makers realized that the larger the wheel, the farther you could travel with one rotation of the pedals. You would purchase a wheel as large as your leg length would allow. This machine was the first one to be



called a bicycle ("two wheel"). These bicycles enjoyed a great popularity among young men of means (they cost an average worker six month's pay), with the hey-day being the decade of the 1880s.

The High Wheel Tricycle



Razors

In Pursuit of the Perfect Shave

While the act of shaving has been around for centuries, it's only in the past few decades that there has been such an increase in innovation. Competition among brands like Gillette and Schick has flooded the market with three, four, five, and even six bladed razors. Is there more to these razors than a complicated marketing scheme? Take a look at how the shaving industry has evolved from cut-throat straight razors in the barbershop to powerful and portable electric razors in the palm of your hand. Ergonomic, lightweight, rust free, and sharper than ever, the razors of today are a far cry from the dull instruments used by the first men without beards.

Straight

Ancient Egyptian Razor

The Greeks and Romans used all types of crude tools to remove their facial hair.



Scraping away unwanted stubble using sharpened stones, axes, swords, knives and even clamshells proved to be not only a difficult, but painful process.



Modern Colong Ichabod Conk shaving brush

Brushes like this one are often made of badger or hog hair. Different qualities of hair come from different areas on a badger's body. The quality of brush determines how smooth or creamy the shaving foam will be when applied to the face. A brush made of badger fur can cost anywhere from \$25 to \$550.



It was in the 19th century that the straight razor was introduced with its smooth handle and extremely sharp blade.



These hand made DOVO straight razors are crafted from ivory, buffalo horn, Swedish stainless steel, birds eye maple and plumwood.



Using a straight razor requires a steady hand and precise movements. Straight razors are still used but mainly by barbers and collectors that enjoy the closeness of shave.

Safety



Gillette Safety Razor, 1901

Pictured here is the Gillette Adjustable Razor from 1957. It is similar to Gillette's original design except for the ability to change the height of the blade to accommodate short, medium, and heavy beards.



The Valet Auto Strop, 1921

This more complex razor allowed the user to re-sharpen blades until they needed to be completely replaced.



The Gillette Trac II, 1971

The first multiple blade razor from Gillette. In 1977 the Trac II was modified with the addition of a pivoting head. In 1986 a thin strip of rubber called the lubricating strip was added to the head of the razor.

HeadBlade, 2000

The HeadBlade's unique design allows the user to push the blade's rolling body over the scalp as opposed to pulling a handle.

The HeadBlade is compatible with many different brands and styles of disposable razors.

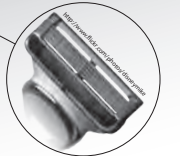


Gillette Fusion, 2006

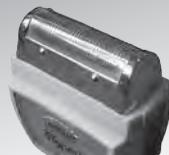
The Fusion features five blades on the front of the razor and an additional trimmer blade along the back.

An onboard computer chip and motor powered by a AAA battery vibrates the blades of the razor to help give a closer shave than a manual razor.

A lubricating strip at the front of the blade fades from green to white when it's time to replace the disposable blade.



Electric



Braun Combi DL 5, 1957

The DL 5 was among the first electric razors developed by Braun. Its cream colored plastic body with foil or ribbon head was



Braun Sixtant, 1962

Built with a heavy cast alloy cutting head with brushed finish, foil cutting surface, and an injection molded acrylic body.

Braun credits much of their early success in the dry shaving market to the Sixtant.



Philips Philishave, 1980

Philips' first Lift & Cut shaver with a traction and cutting system that works in a similar fashion to the manual twin-blade razor.

Its metal body with black plastic and rubber accents is reminiscent of early tape players, Walkmans, VCRs and other high tech gadgets of the 1980s.



Norelco Architect, 2007

The latest electric razor from Norelco has one of the most unique designs of all electric razors from the past century. The three independently flexing heads of the unit are now elevated from the handle allowing them to contour to the face in ways never before possible.

The open design of the razor makes for simple cleaning and maintenance. Each of the three blades can be opened outward and the waterproof shaver can easily be rinsed free of hair.

LUKA

The Book-Handling Primate



Eugene Wong

LUKA

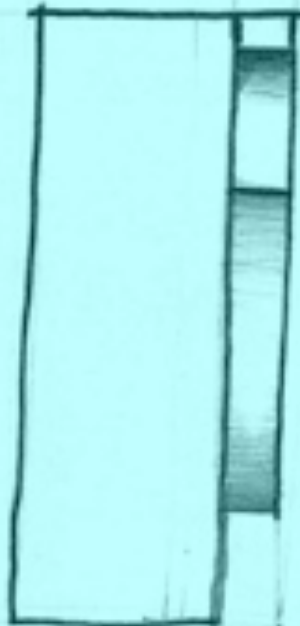
The Book-Handling Primate



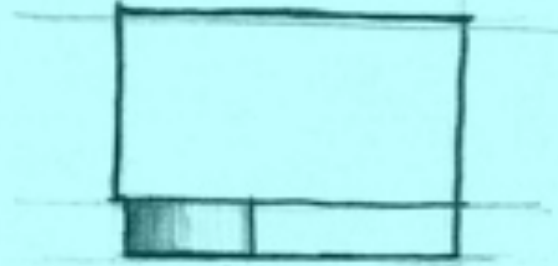
Eugene Wong
San Francisco State University



BACK



LEFT



TOP



FRONT

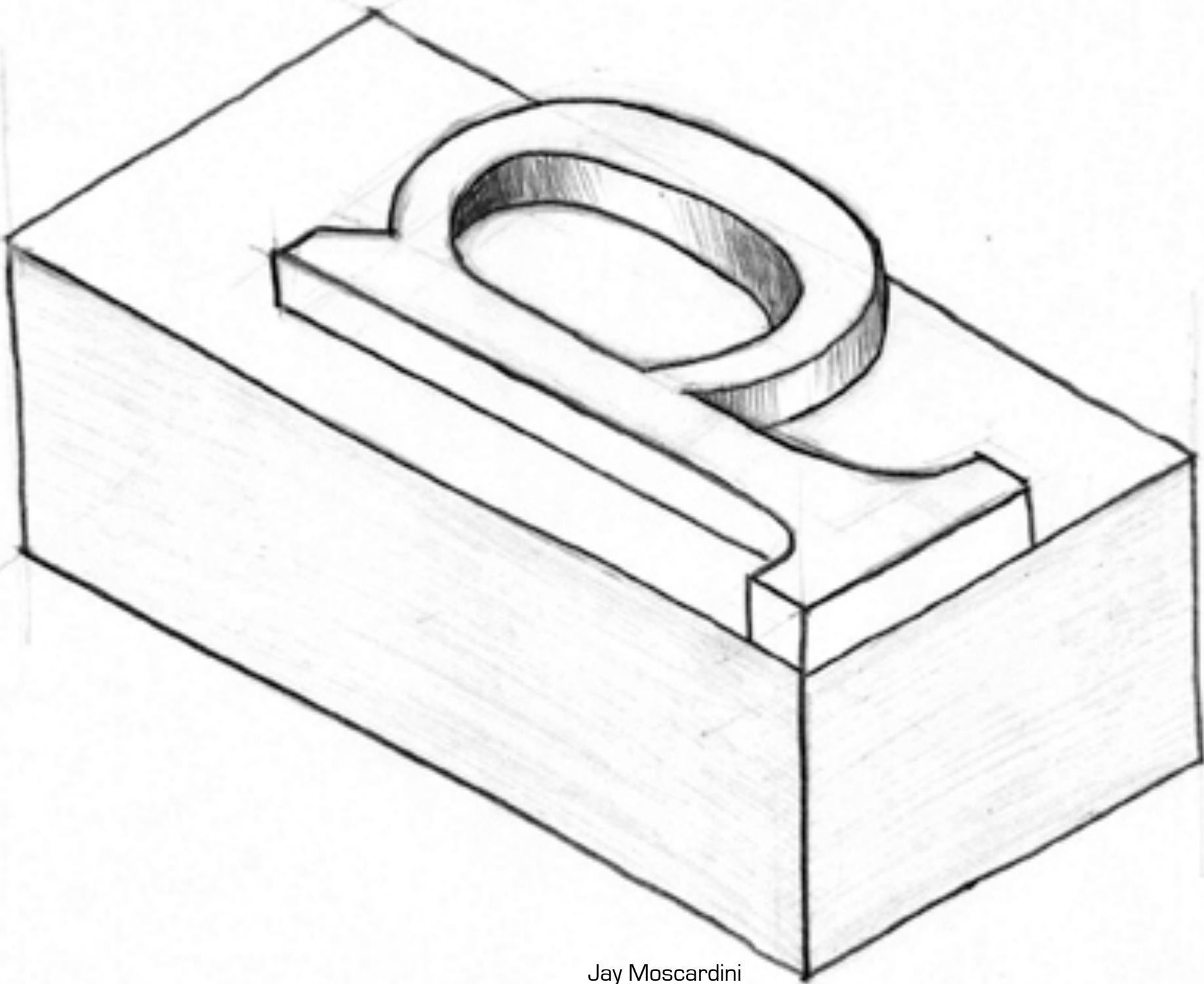


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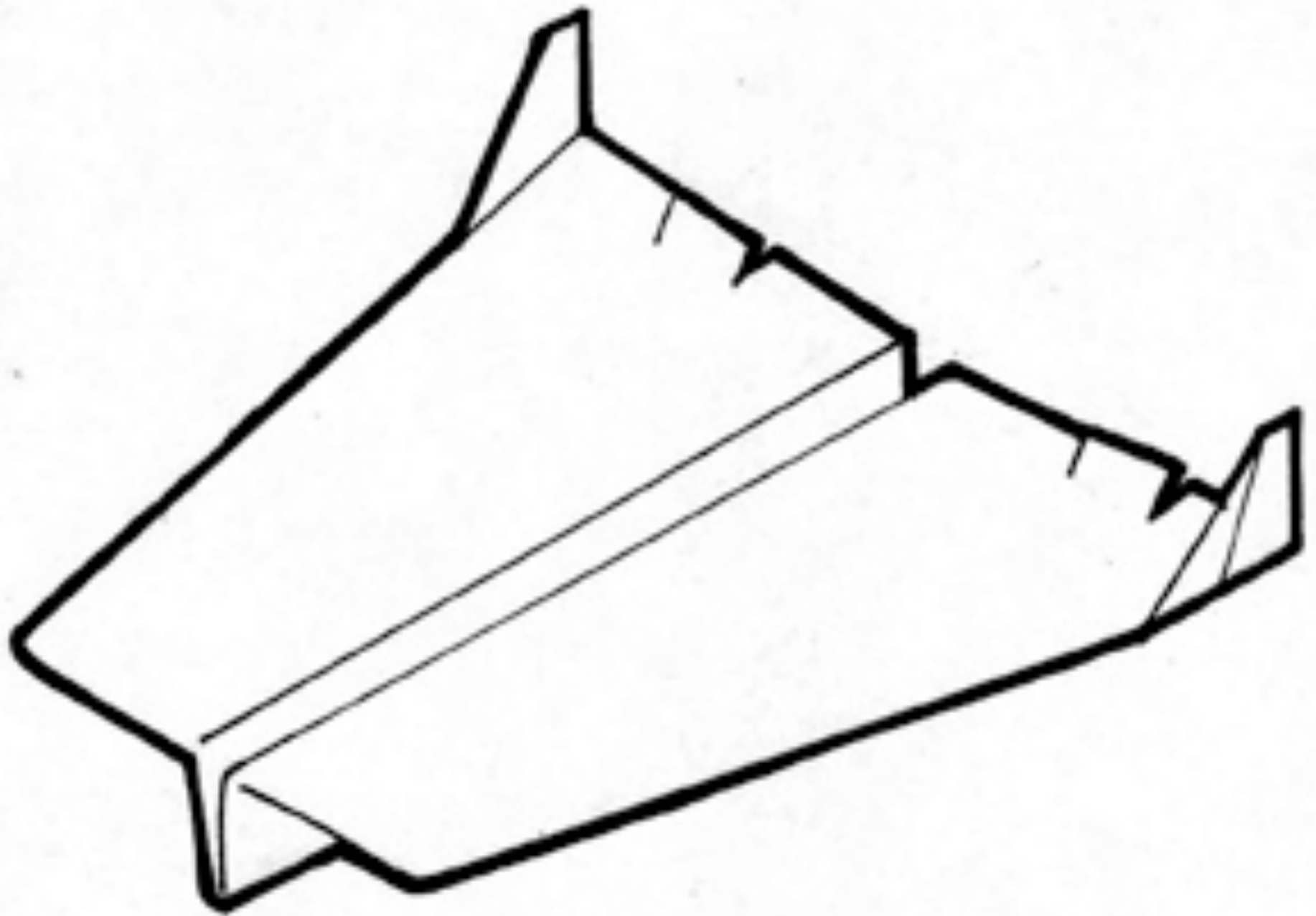


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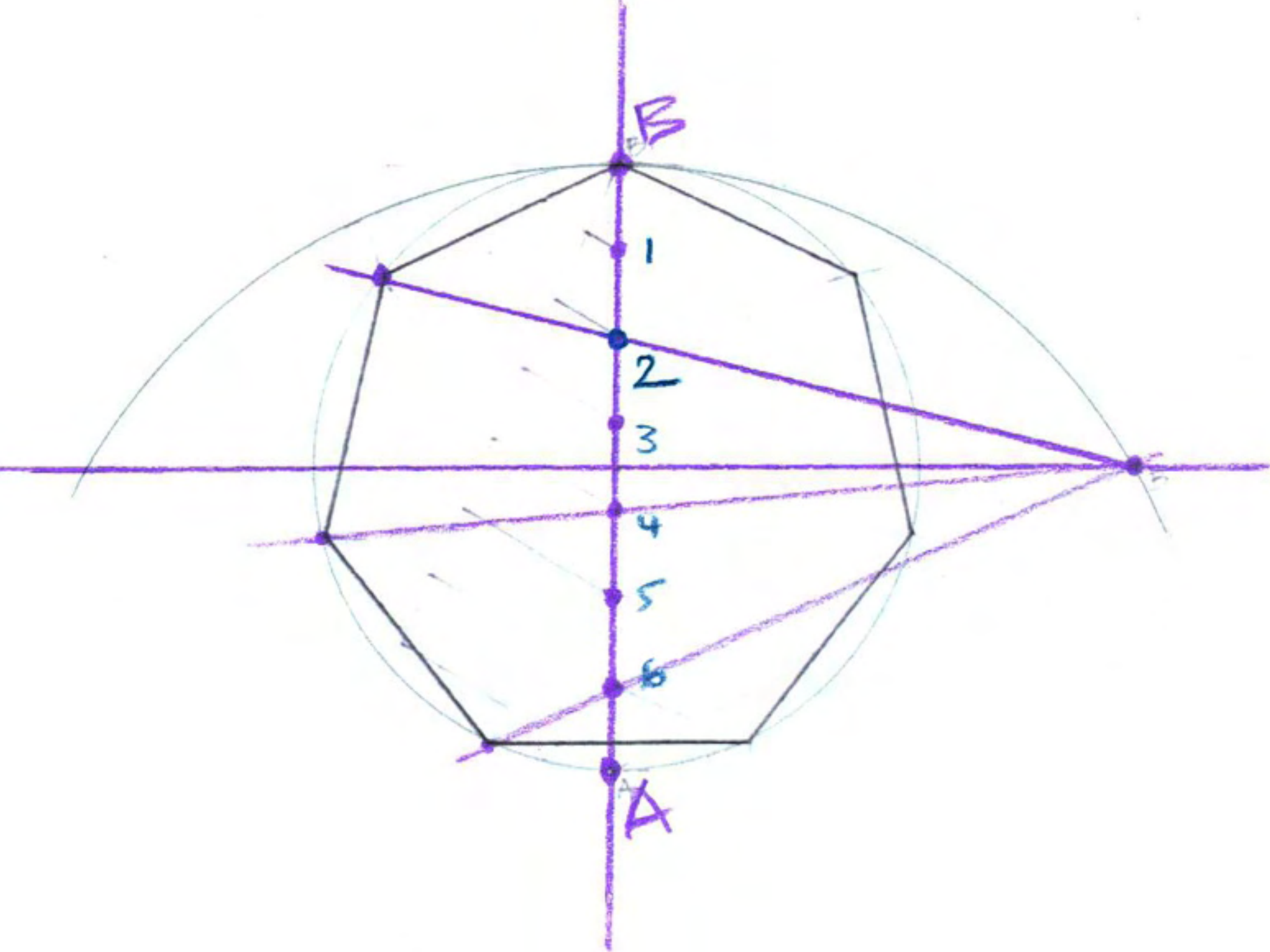
320 Drafting & Sketching



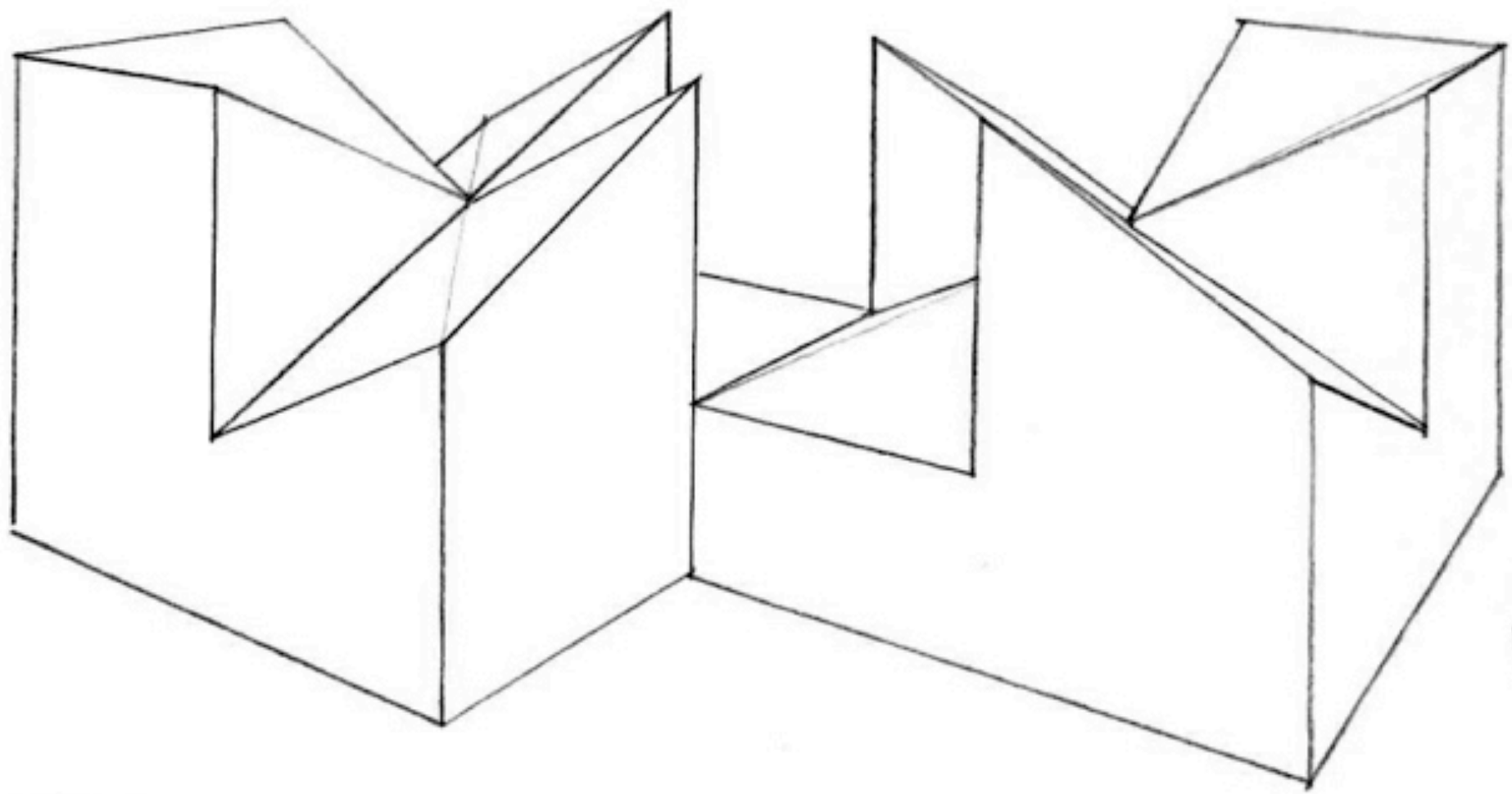
Jay Moscardini



Jay Moscardini

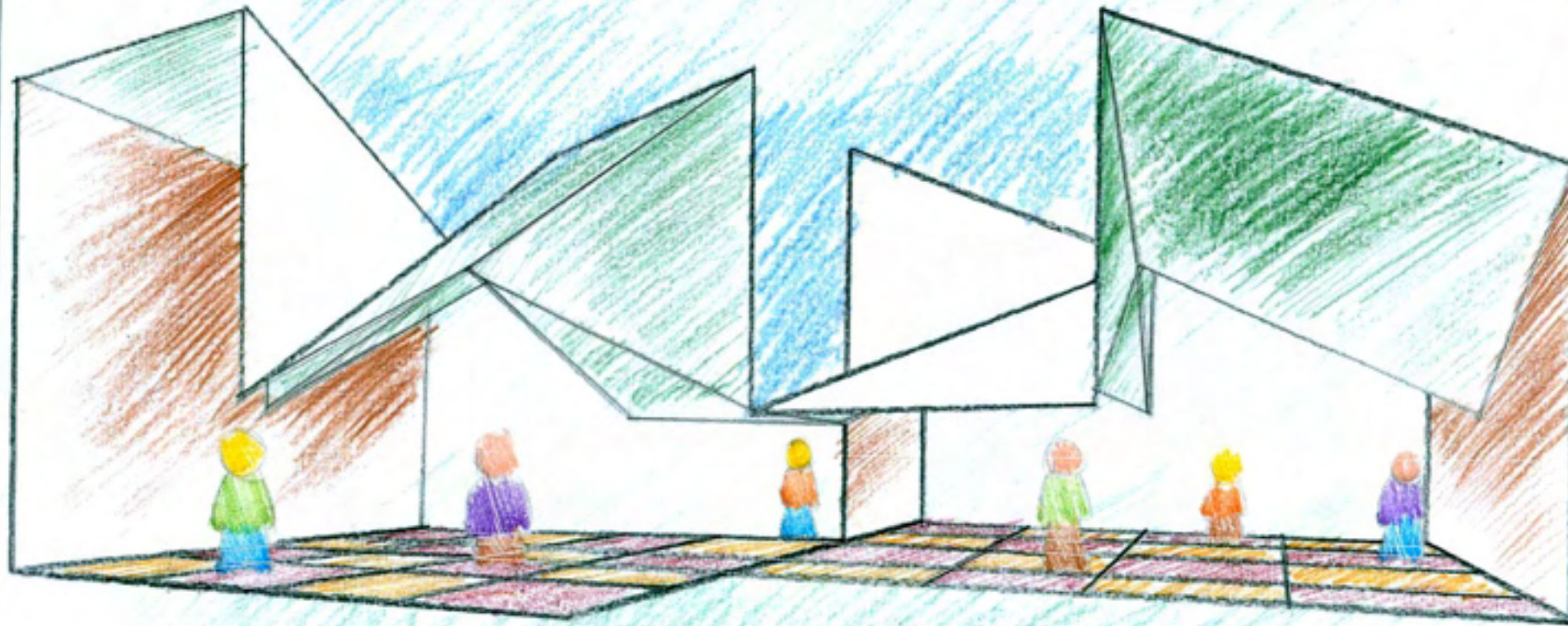


Florence Gold Yuen



40
/ 40

TWO CUBIC MODULES	DAI 320 TRAMU	YUEN, FLORENCE	DEC. 13, 2010
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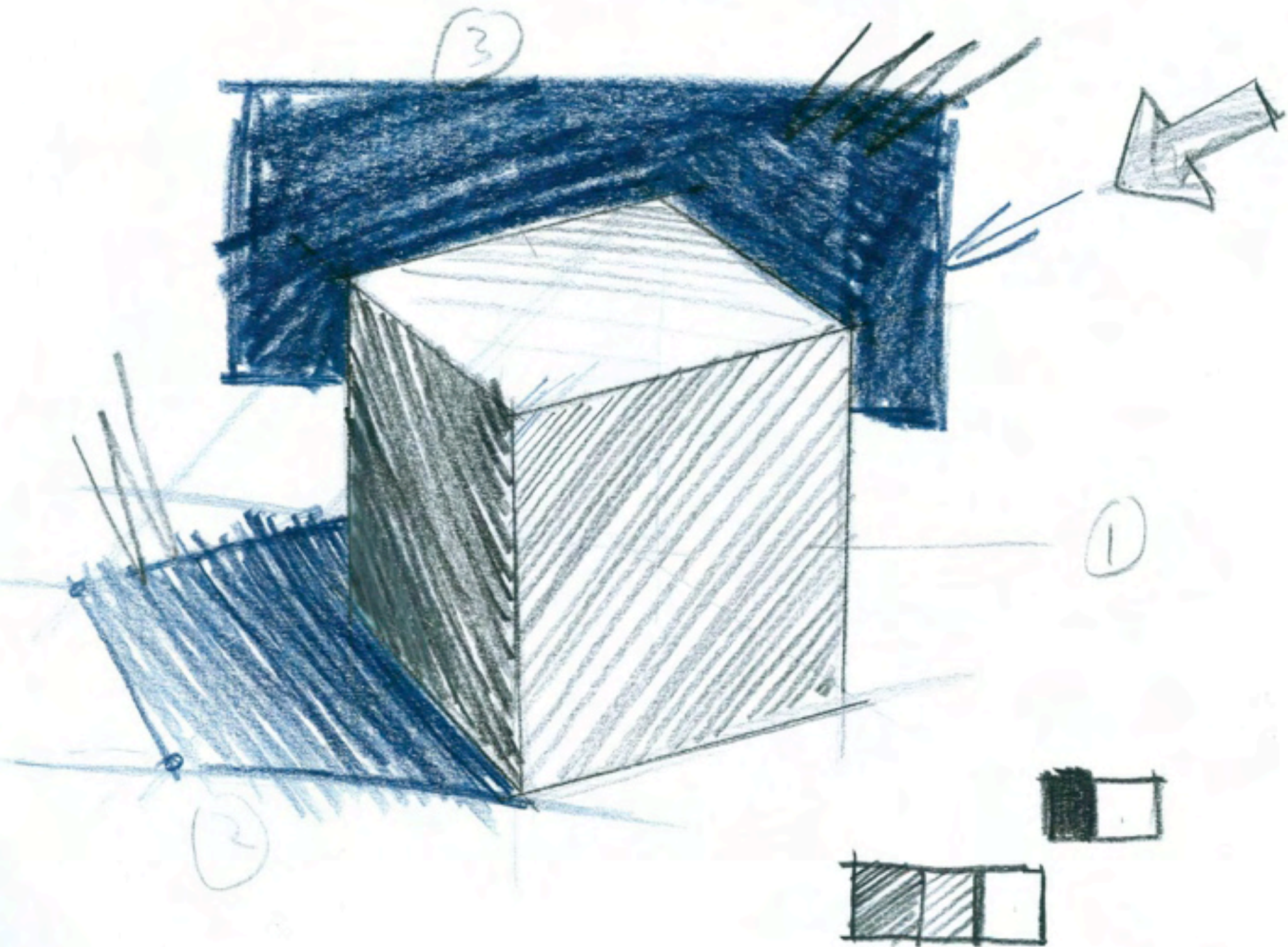


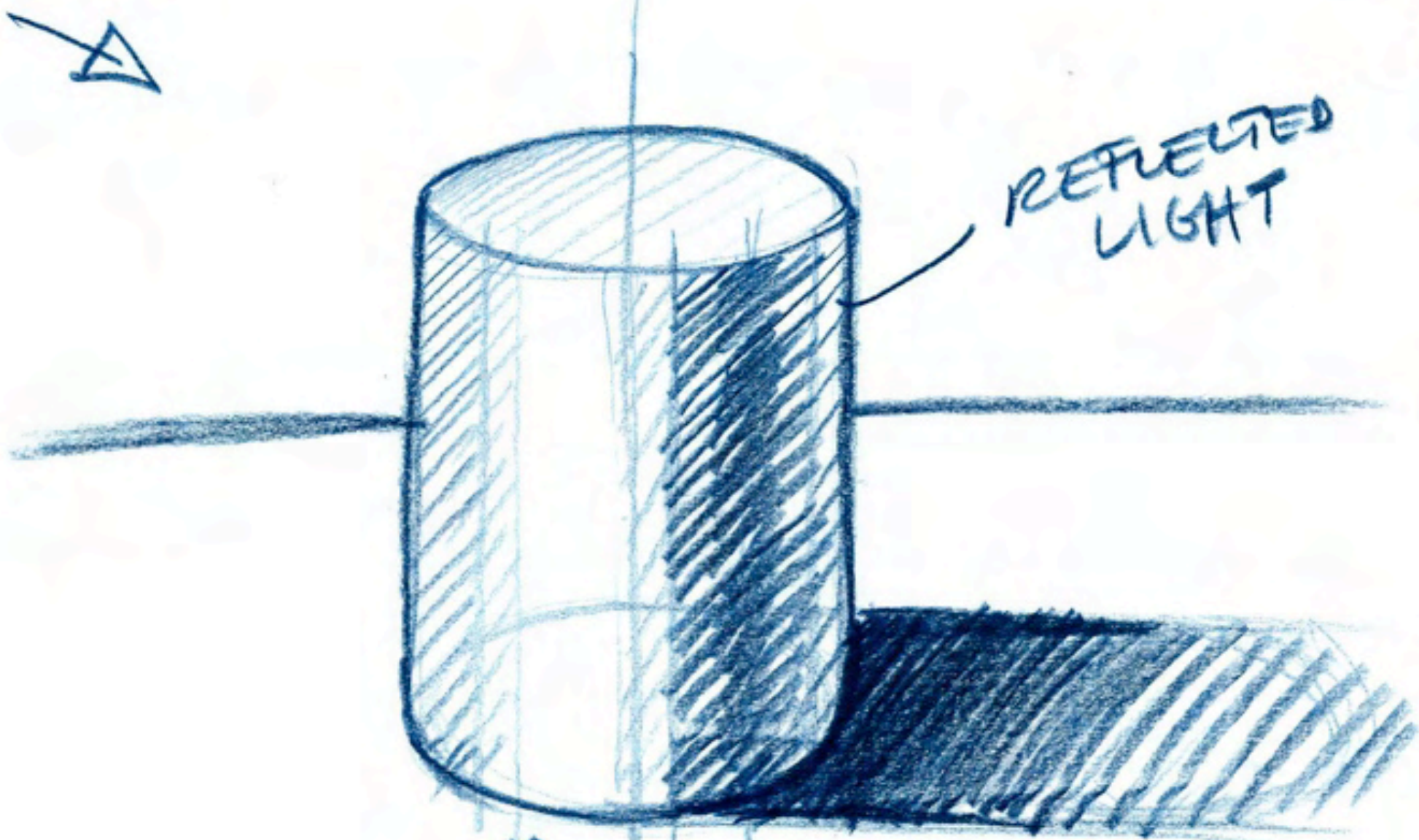
46 FREE-HAND
PERSPECTIVE AND COLOR

DAI 320 TROGIU

YUEN, FLORENCE

DEC. 14, 2010





REFLECTED
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HIGHLIGHT

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CORE SHADOW

LIGHT SOURCE
▲

HIGHLIGHT

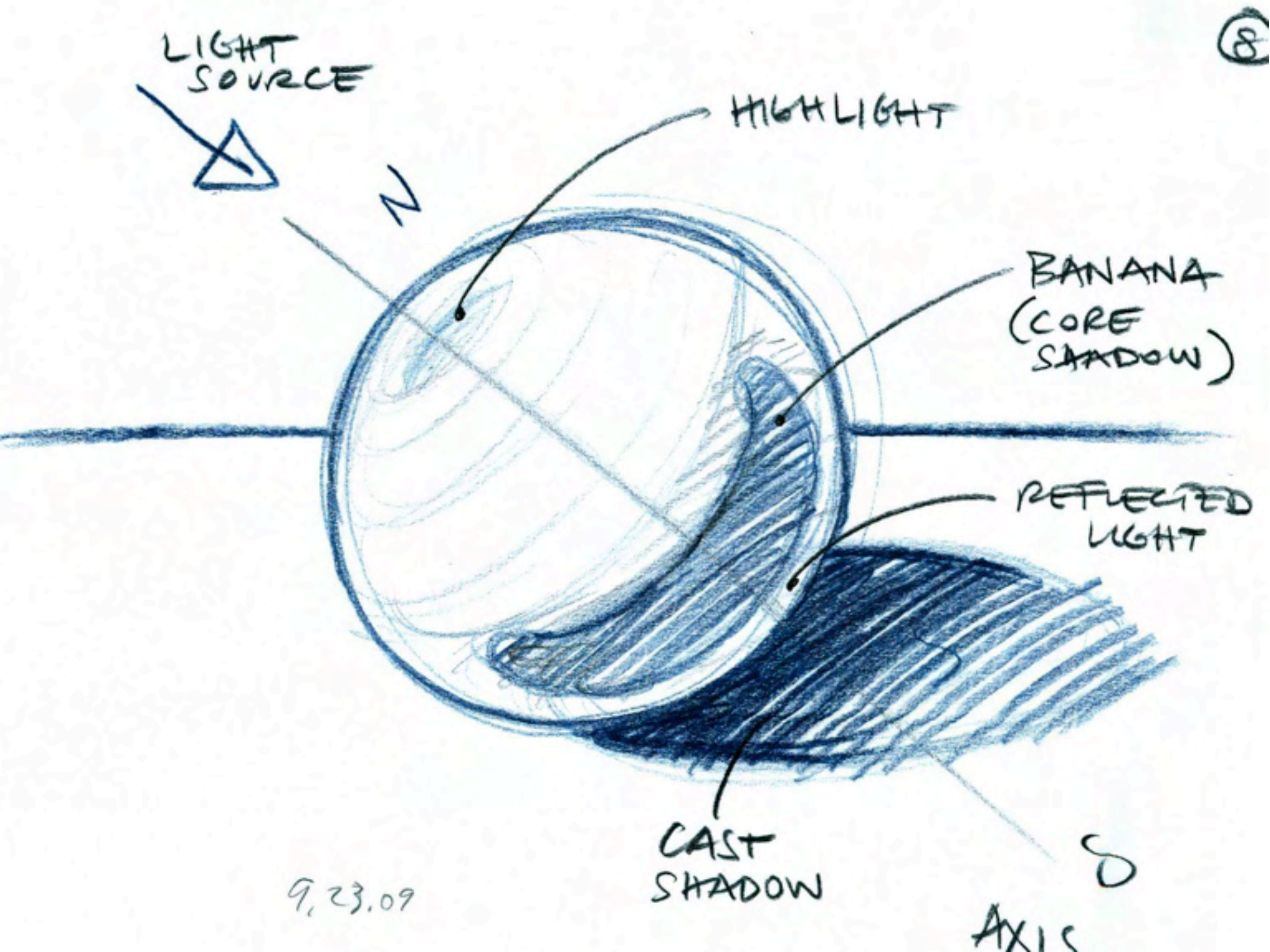
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(CORE SHADOW)

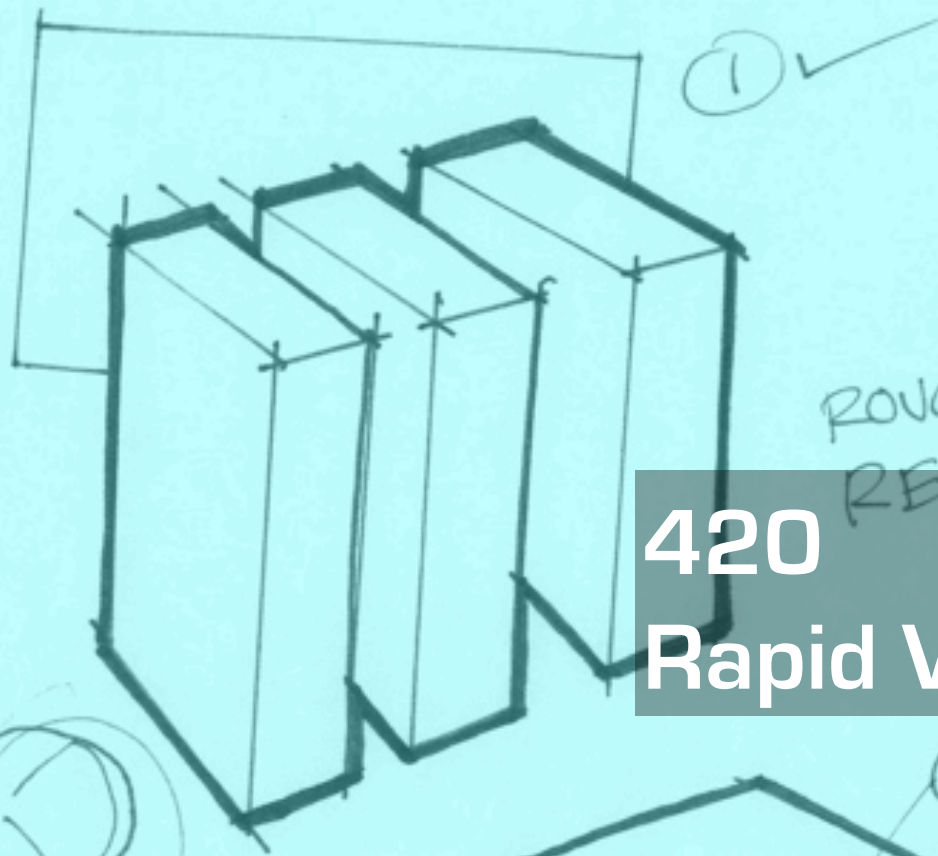
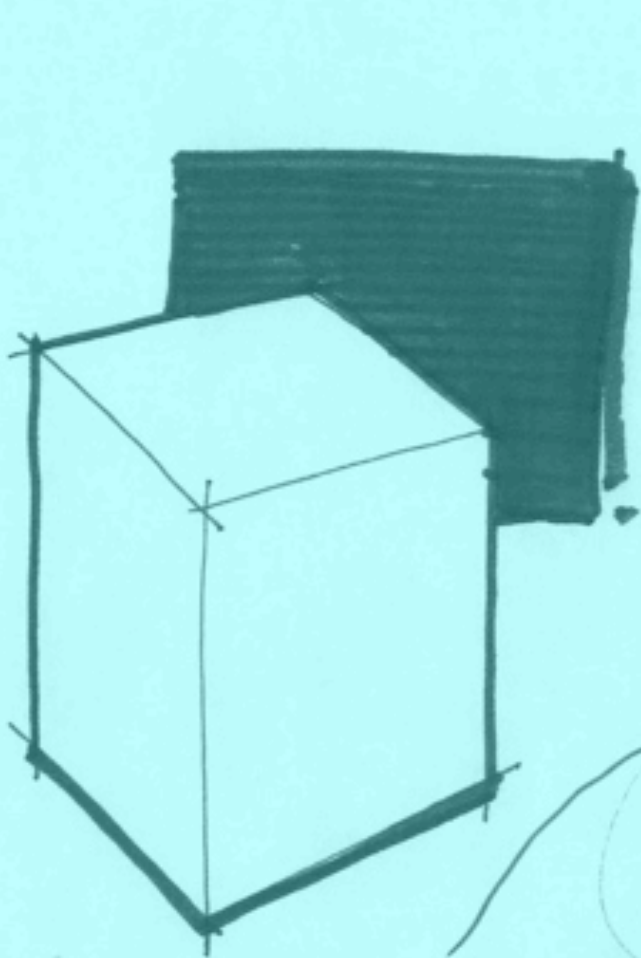
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CAST SHADOW

AXIS

9.23.09



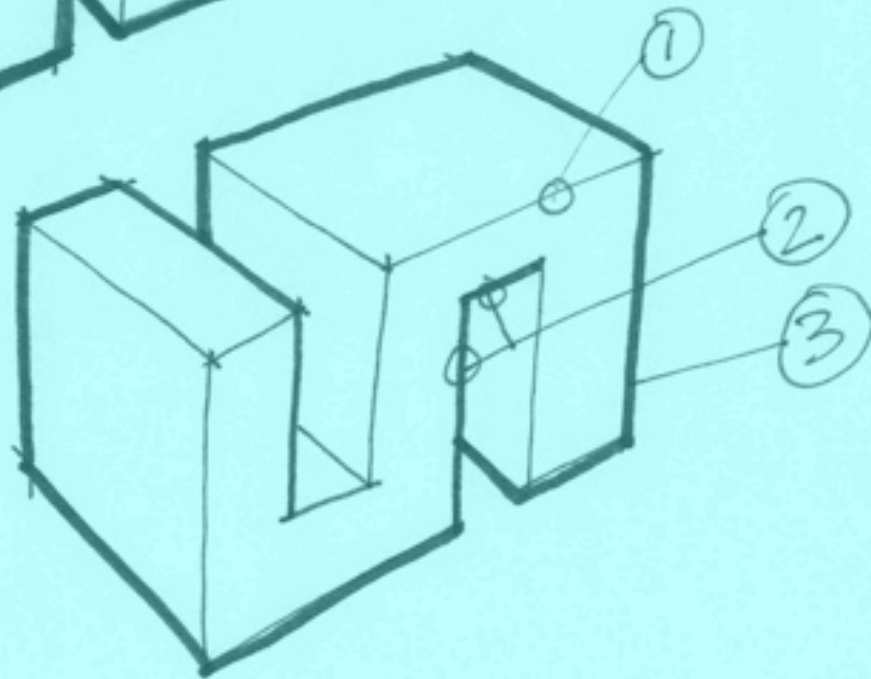


ROUGH — THUMBNAI
REFINE

420 Rapid Viz

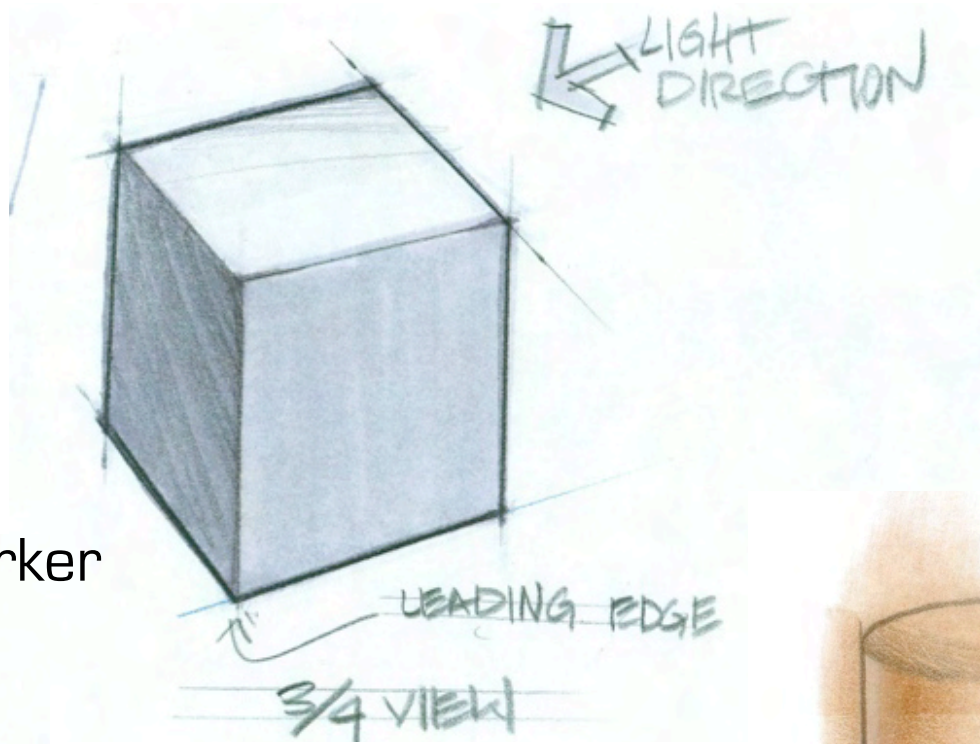


THUM

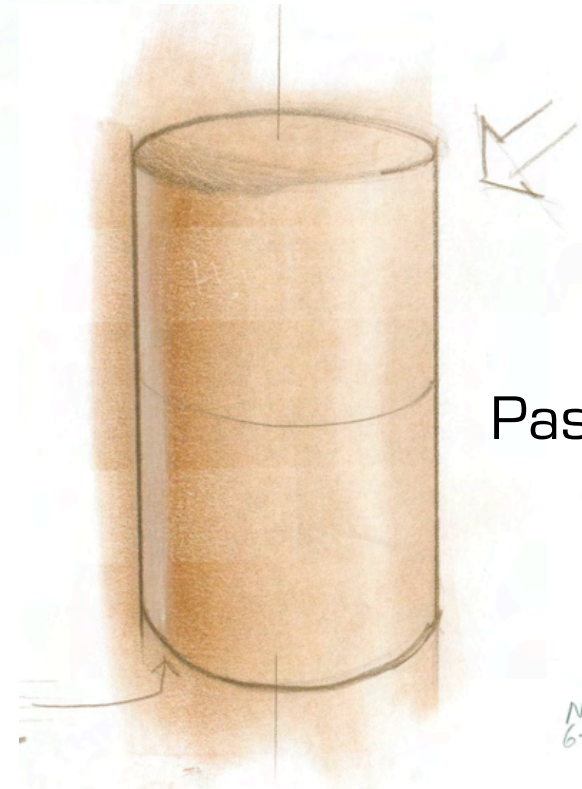


③

NATATA
6-22-09



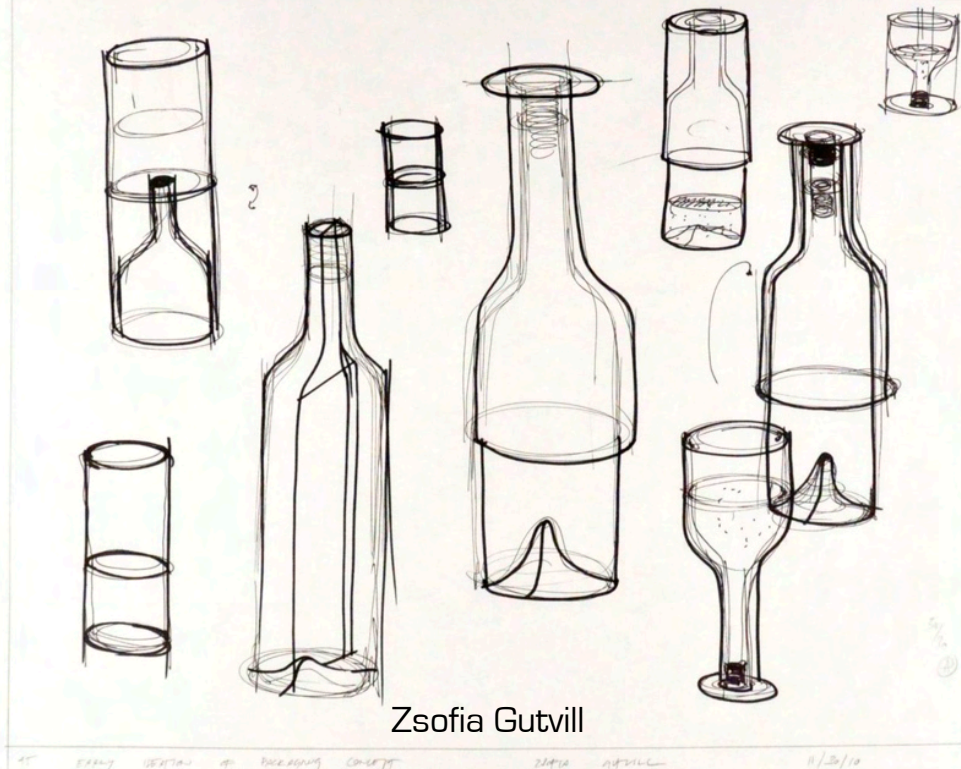
Marker



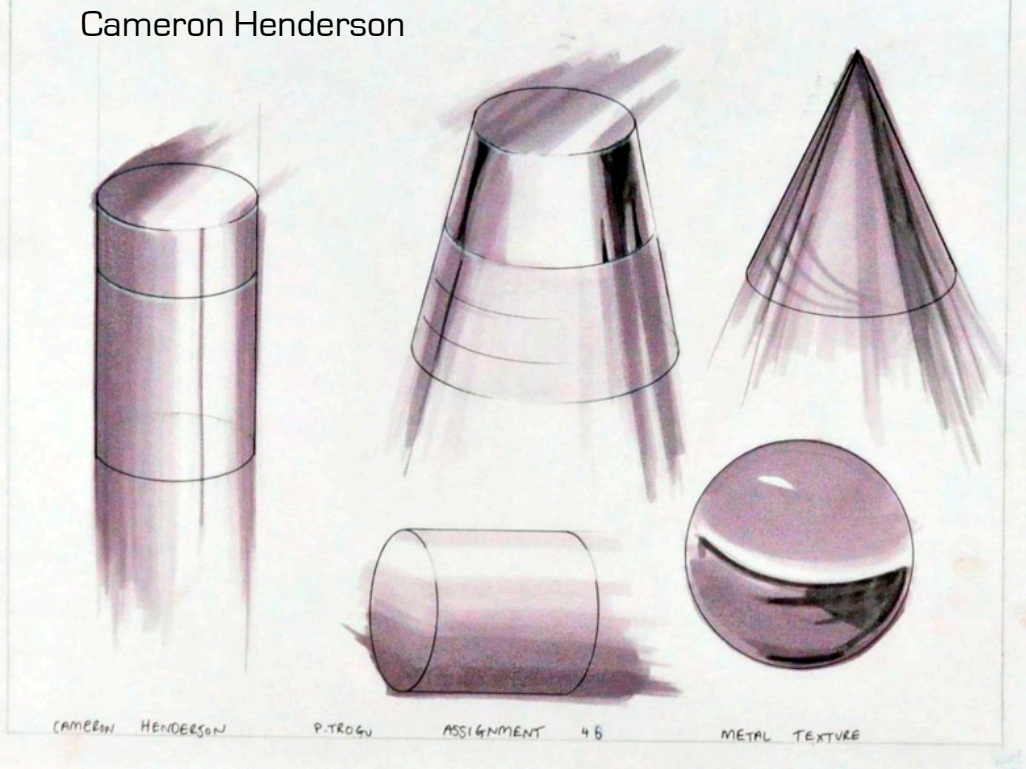
Pastel

Robert Natata

Video: Rapid Viz Demos (Natata)

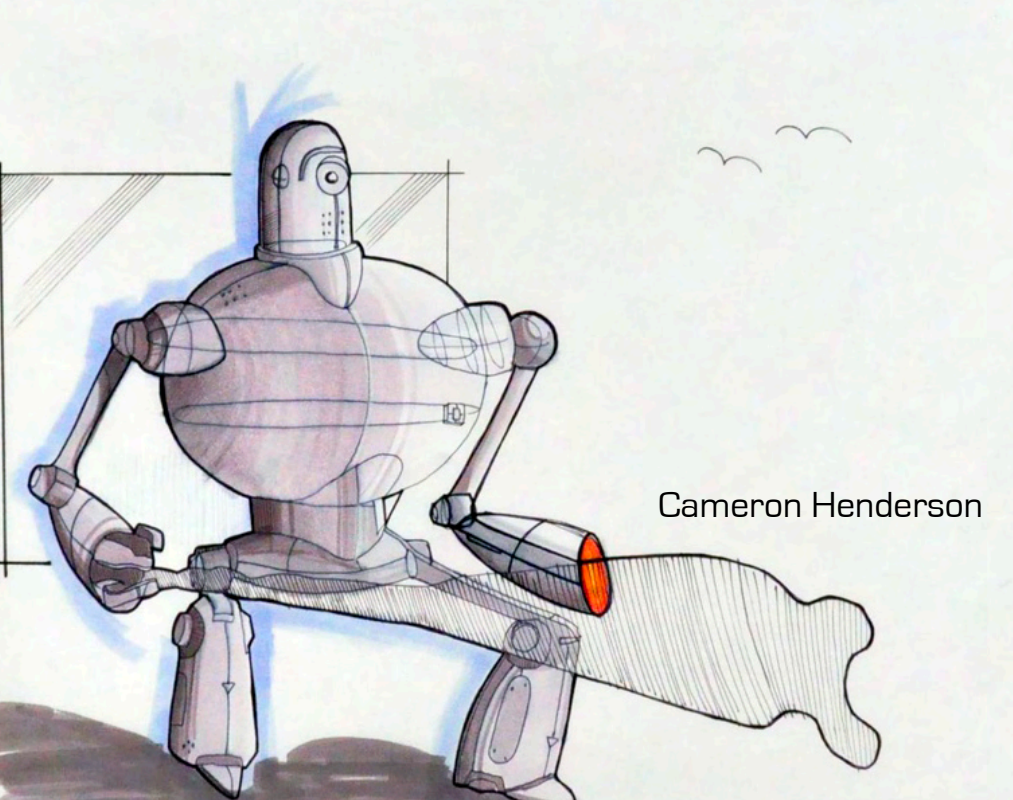


Zsofia Gutvill



Cameron Henderson

CAMERON HENDERSON P.TROGU ASSIGNMENT 46 METAL TEXTURE



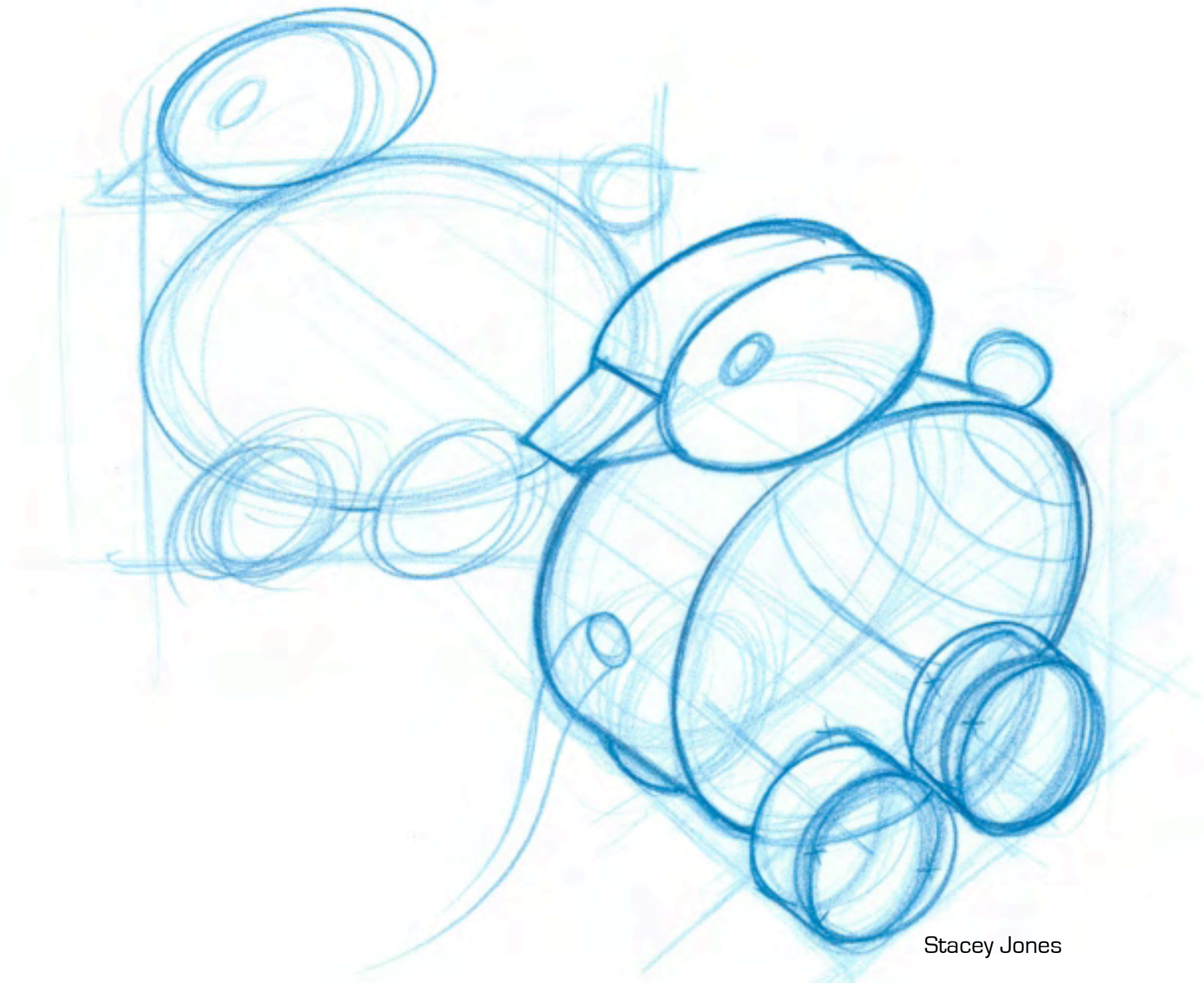
Cameron Henderson



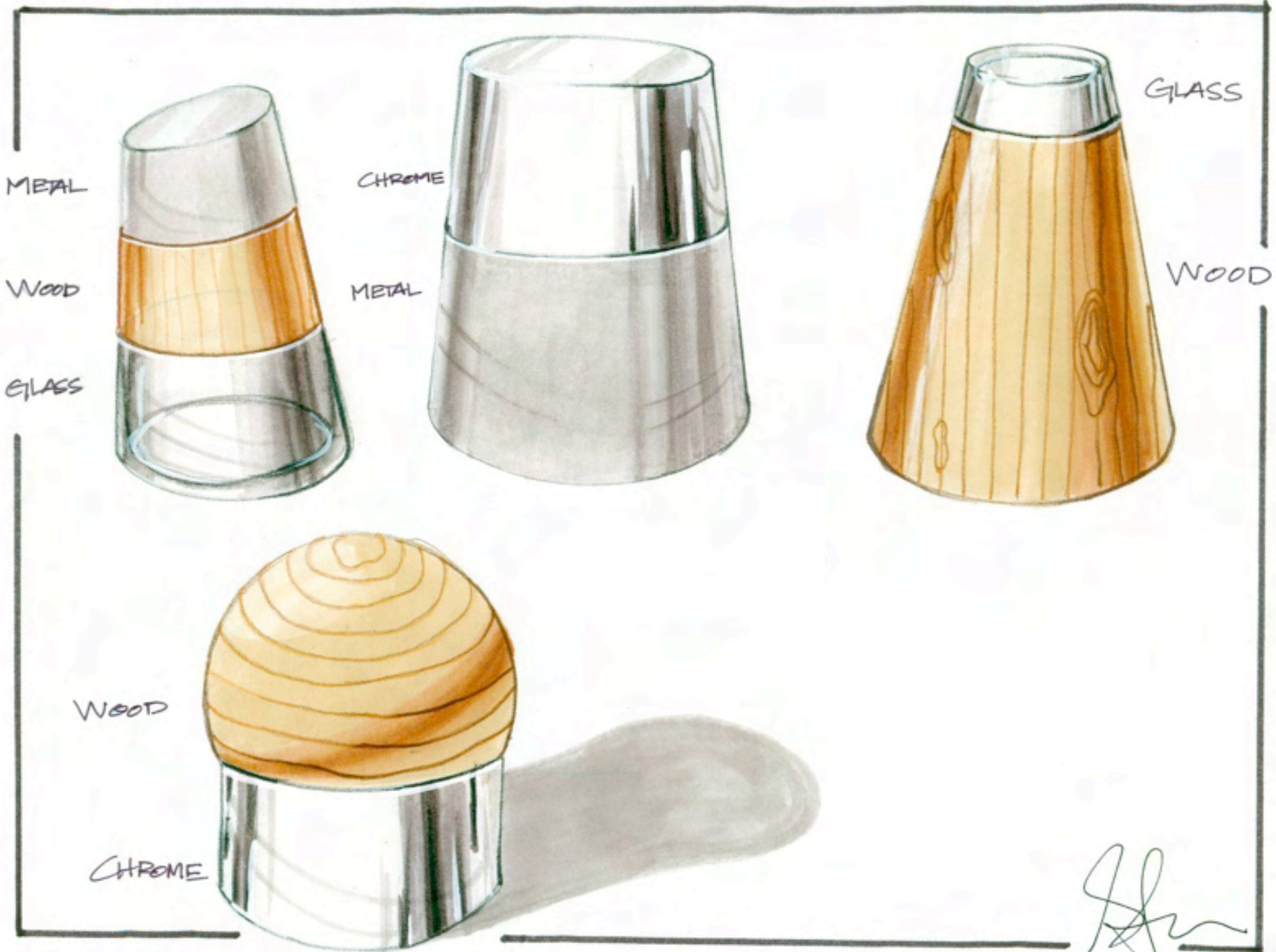
"Agent Orange wine"

Moses Garibay

MOSES GARIBAY
12/16/2010



Stacey Jones



METAL

WOOD

GLASS

CHROME

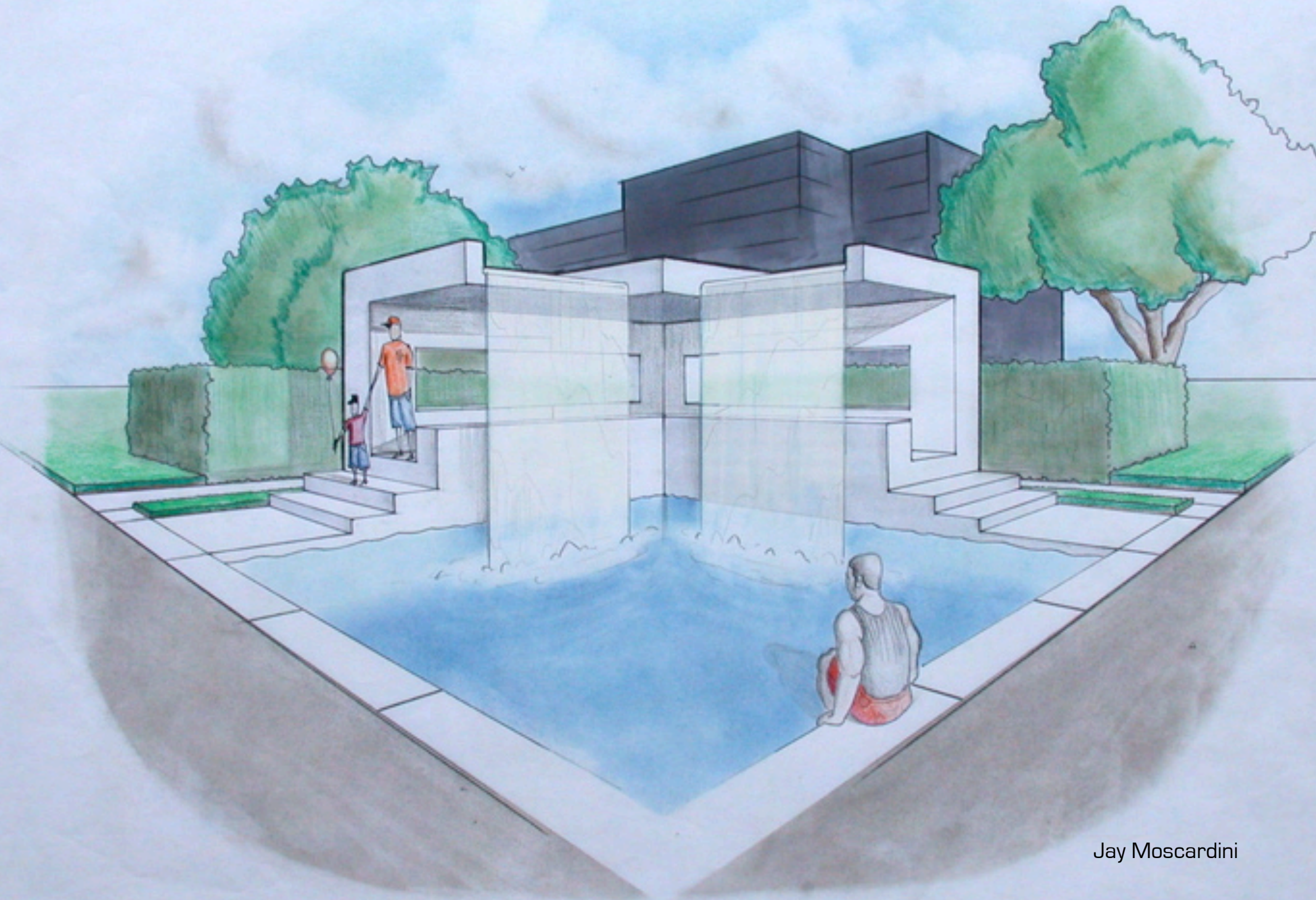
METAL

GLASS

WOOD

WOOD

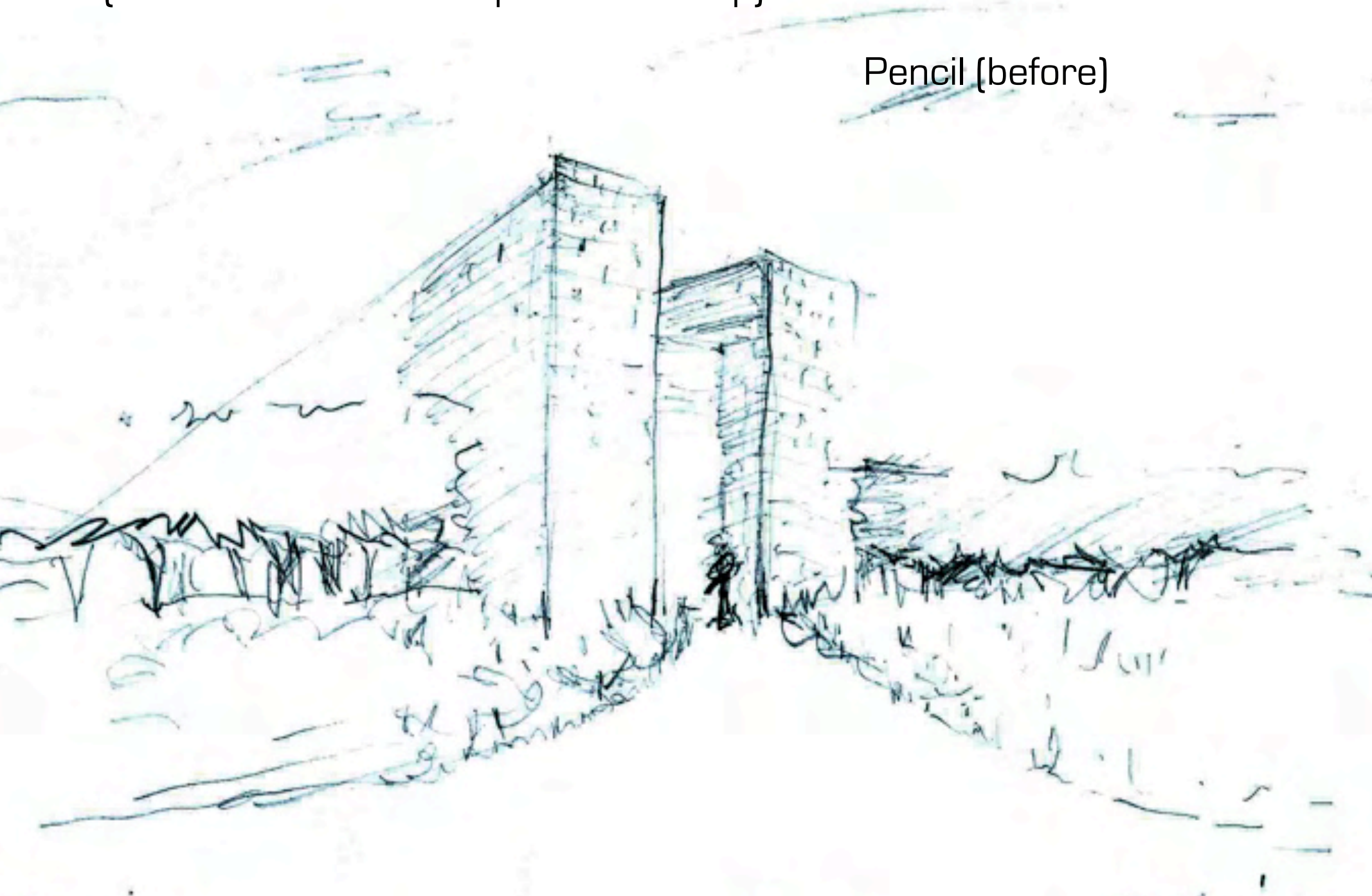
CHROME



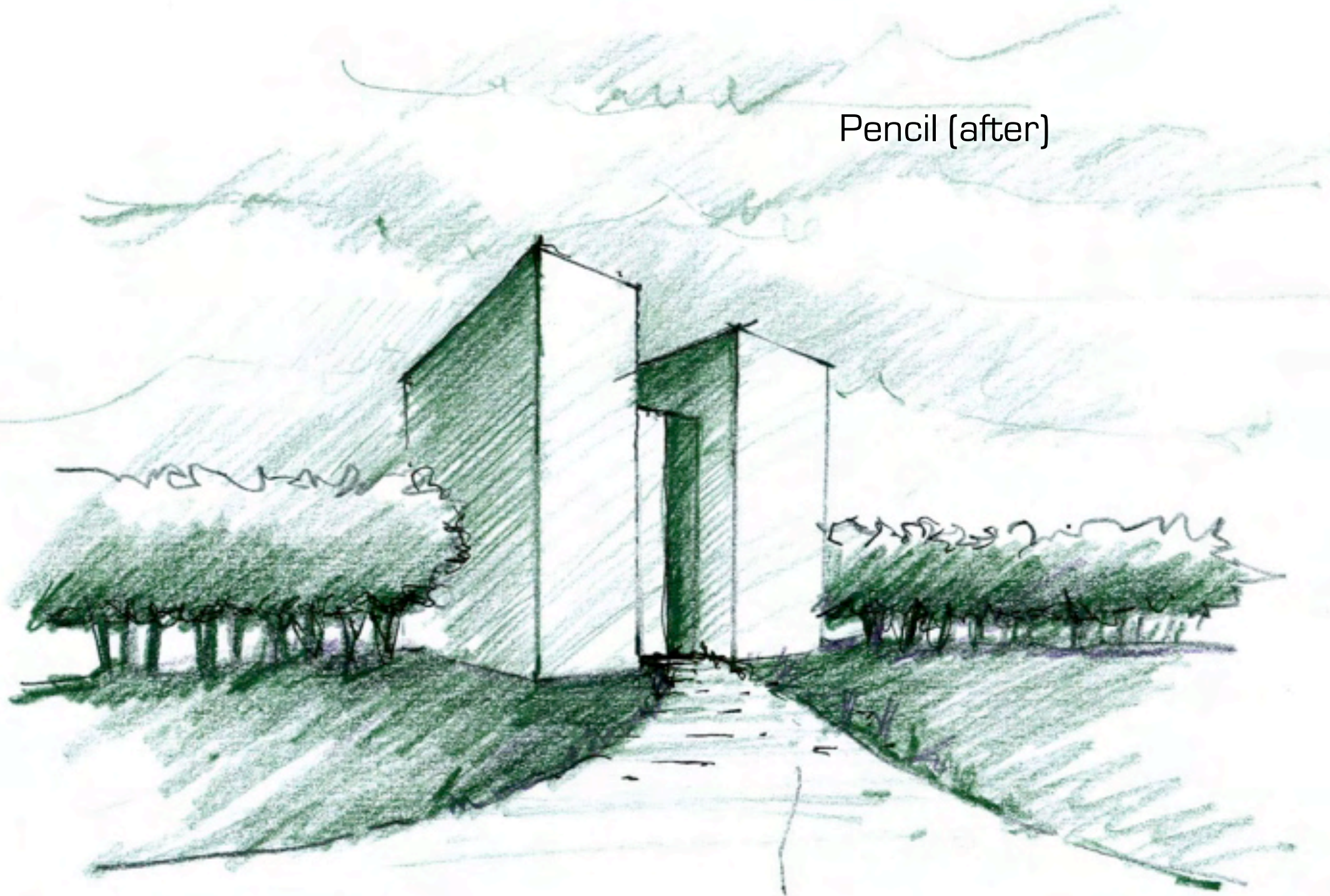
Jay Moscardini

420 Rapid Viz
(based on Mike Lin Graphic Workshop)

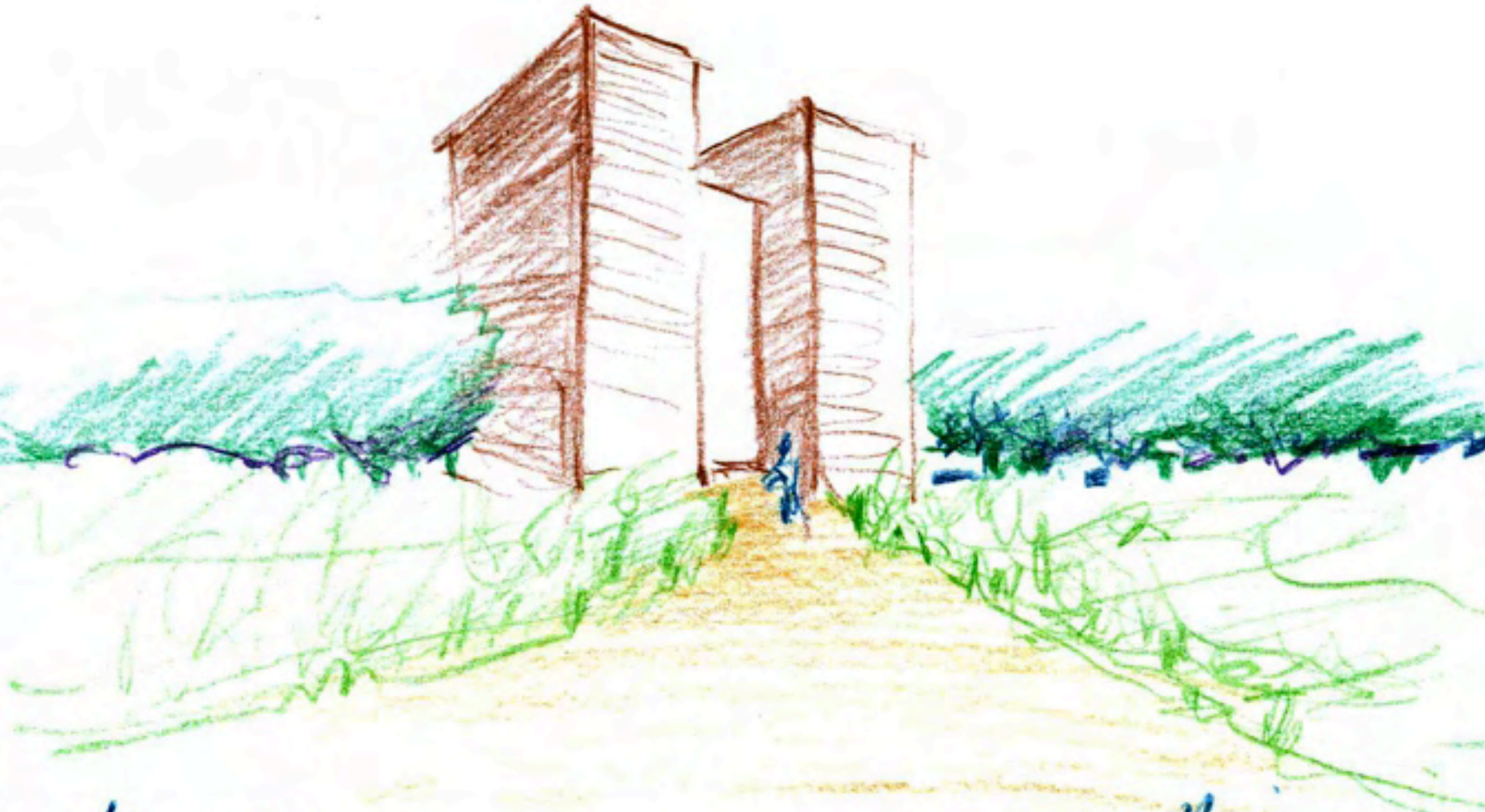
Pencil (before)



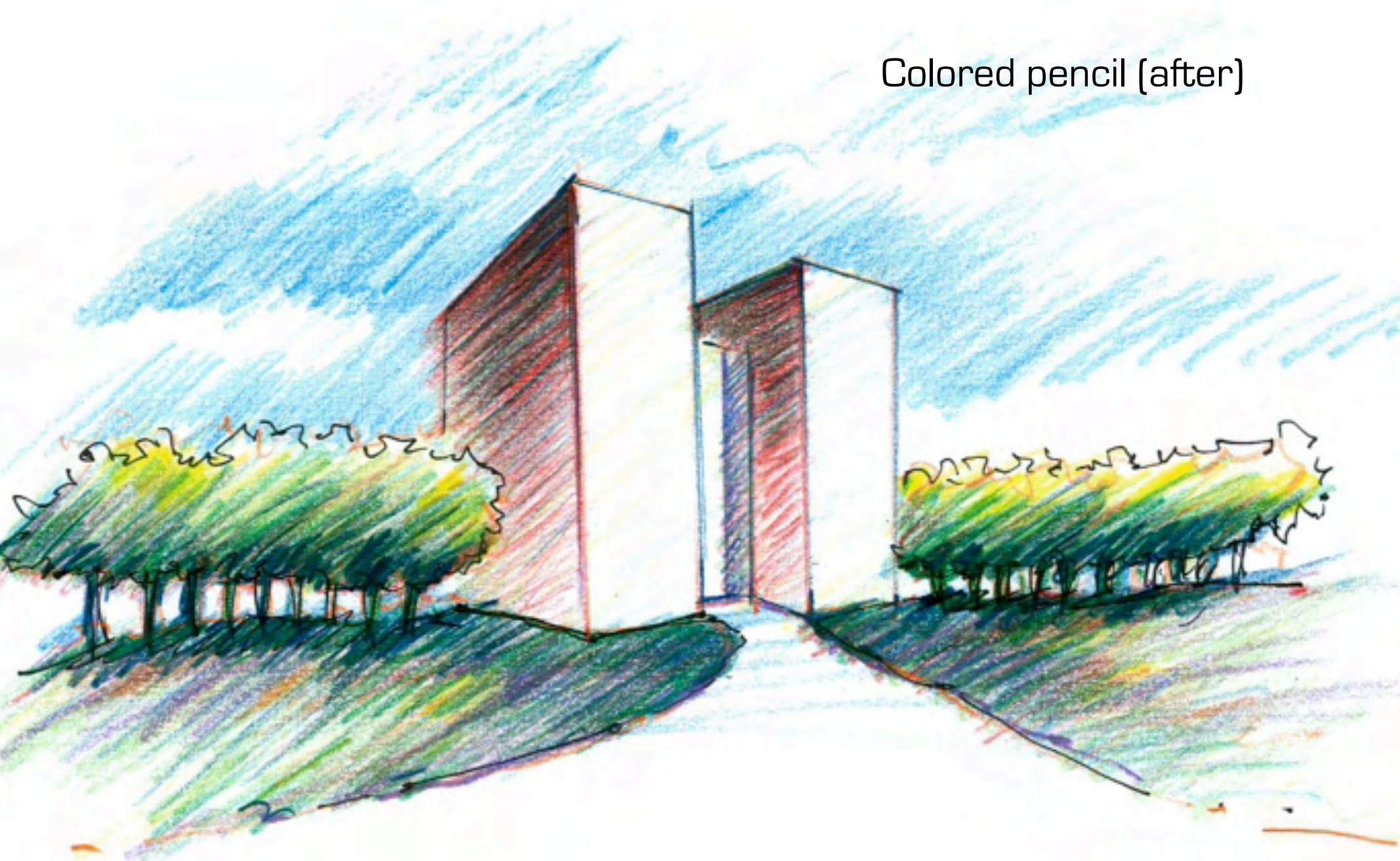
Pencil (after)



Colored pencil (before)



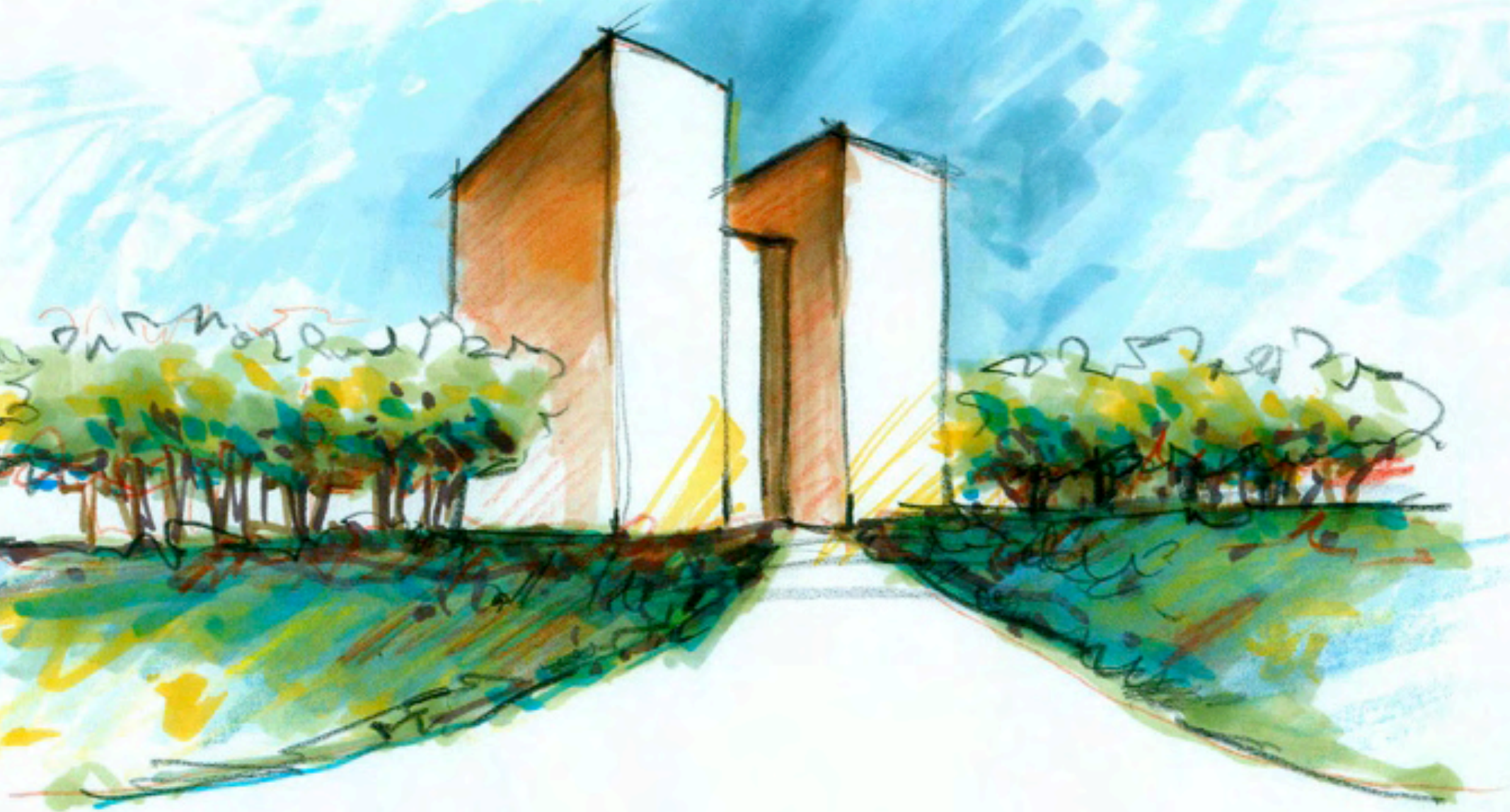
Colored pencil (after)



Marker (before)



Marker (after)



523

Information Design 1

Information Design

How

- index
- user interface
 - abstraction
 - symbols
 - models
- representation
 - aesthetics
 - graphic design
- visualization
 - composition
 - clarity
- hierarchy
 - processing
 - filtering

Types

- navigation
- lists
- system
- diagram
 - timeline
 - map
- charts
 - cartography
 - graph
- details
- instruction
- network

Qualities

- flow
- contrast
- compelling
 - persuasive
- harmony
 - unity
- efficient
- exact
- unique

What

- framework
- information
 - data
 - research
 - analytics
 - reference
 - statistics
 - knowledge
- structure
 - relationships

Intention

- usability
 - organization
- memory
- experience
 - need
 - psychological
- user
 - culture
 - message
 - language
 - comprehension
- communication
- understanding
 - interpret
 - intuitive

Data set "meat grinder"

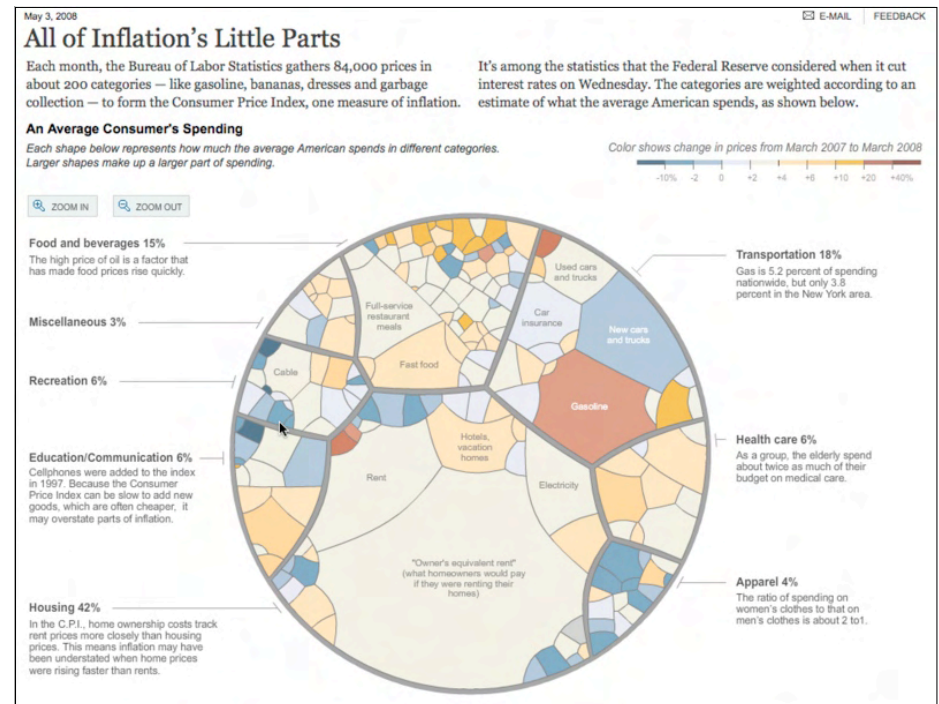
1. Piece Goods	460.5	473.0	478.1	3.8	1.1
2. Domestics and Draperies	413.2	412.3	394.3	-4.6	-4.4
3. Women's and Children's Shoes	679.0	706.7	701.6	3.3	-0.7
4. Men's Shoes	915.7	929.3	930.2	1.6	0.1
5. Infants' Wear	579.8	580.0	578.0	-0.3	-0.3
6. Women's Underwear	599.1	625.8	641.0	7.0	2.4
7. Women's Hosiery	375.6	375.8	396.5	5.6	5.5
8. Women's and Girls' Accessories	563.0	640.2	619.5	10.0	-3.2
9. Women's Outerwear and Girls' Wear	360.0	377.5	361.4	0.4	-4.3
10. Men's Clothing	541.1	527.4	533.1	-1.5	1.1
11. Men's Furnishings	587.1	574.5	581.8	-0.9	1.3
12. Boys' Clothing and Furnishings	416.0	427.9	390.9	-6.0	-8.6
13. Jewelry	1003.5	1006.2	1009.4	0.6	0.3
14. Notions	847.6	856.1	871.7	2.8	1.8
15. Toilet Articles and Drugs	1041.3	1050.3	1044.8	0.3	-0.5
16. Furniture and Bedding	594.6	573.8	551.3	-7.3	-3.9
17. Floor Coverings	621.3	610.6	609.3	-1.9	-0.2
18. Housewares	686.2	674.1	666.0	-2.9	-1.2
19. Major Appliances	214.5	205.0	205.4	-4.2	0.2
20. Radio and Television	27.4	25.6	24.2	-11.7	-5.5
21. Recreation and Education ¹	77.0	75.7	73.8	-4.2	-2.5
22. Home Improvements ¹	158.7	155.0	155.0	-2.3	0.0
23. Automotive Accessories ¹	135.8	135.7	137.7	1.4	1.5
1-15. Soft Goods	567.8	577.4	571.2	0.6	-1.1
16-20. Durable Goods	364.8	353.7	347.8	-4.7	-1.7
21-23. Miscellaneous Goods ¹	99.3	98.0	97.2	-2.1	-0.8
Store Total ²	500.2	502.6	496.8	-0.7	-1.2

Data set (numbers) in



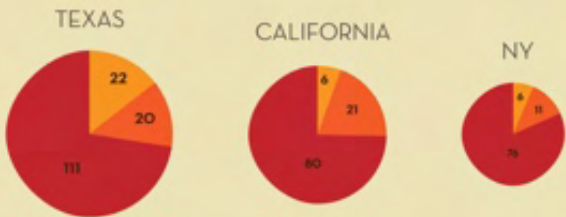
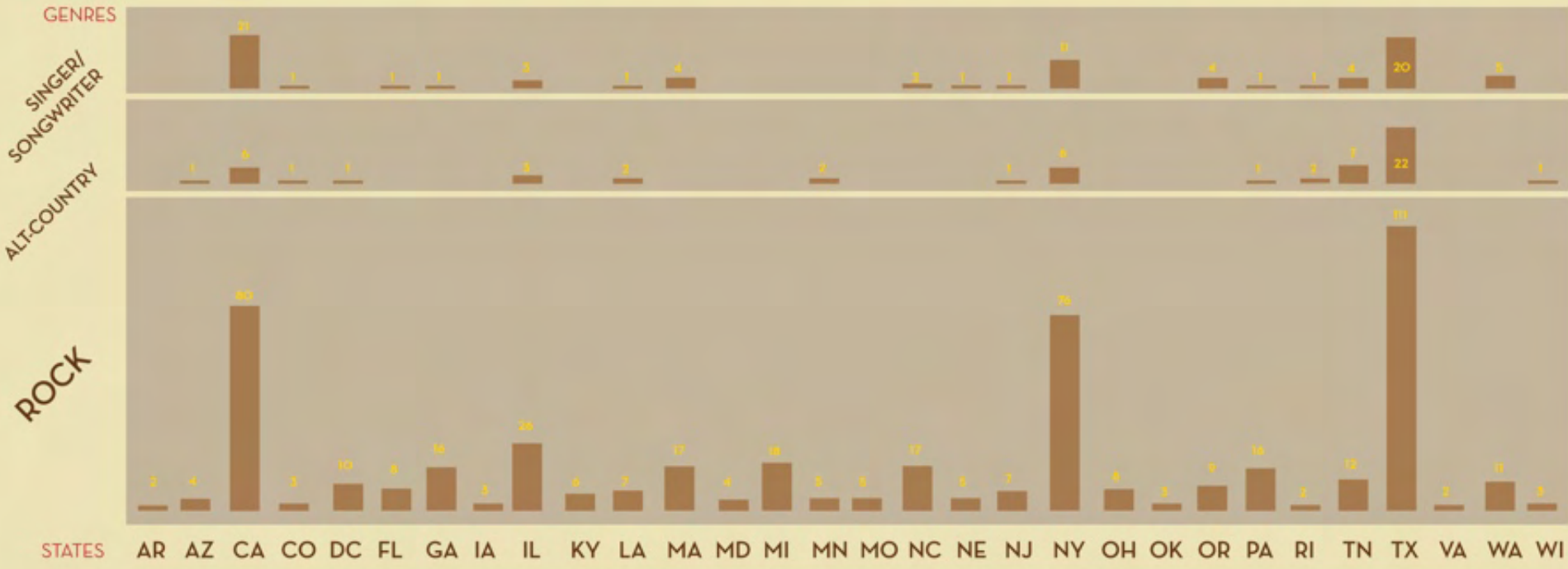
>>> All of inflation's little parts

Voronoi tree map by Amanda Cox for The New York Times



Data visualization (graph) out

SXSW BANDS BY GENRES AND STATE ORIGINS



The three states that many of the bands called home

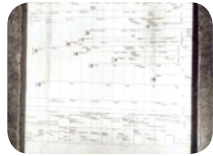
- SINGER/SONGWRITERS
- ALT-COUNTRY BANDS
- ROCK BANDS

SOUTH BY SOUTHWEST
MUSIC CONFERENCE
& FESTIVAL 2007

DAI 523 Information • Data and Text Visualization Types
Gritchelle Fallesgon • 10/19/09 • Pino Trogu

Timelines

"Timelines are sequences of related events in chronological order. They are important in understanding history."



The earliest modern timeline, *Carte chronologique*, is created by Jacques Barbeau-Dubourg. **1753**



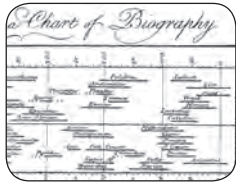
Charles Joseph Minard's *Carte figurative de pertes successives en hommes de l'Armée Française dans la campagne de Russie 1812-1813*. Among the finest of Minard's graphical works, this chart plots the catastrophic loss of men in relation to place, time, and temperature during Napoleon's march to Moscow. **1869**



The final installment of H.G. Wells' bi-weekly periodical, *Outline of History* includes a comprehensive timeline that comprehensively depicts events from 1,000 BC to the present day. **1920**

1765

Joseph Priestley publishes the first of several timelines. A *Chart of Biography* compares the life spans of 2,000 celebrated men from 1200 BC to 1750 AD, using bars set against a linear time axis to denote their life spans.



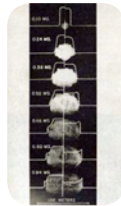
1889

In *Time and Free Will*, Henri Bergson argues for a distinction between the homogeneous mathematical conception of time and heterogeneous experience of duration. He insists that the experience of time cannot be represented in a linear fashion.



1950

Studies of the damage wrought by atom bombs prompt timelines broken into infinitely smaller fragments of time.



Statistics

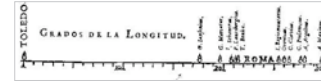
A meta-science (or meta-language) for dealing with data collection, analysis, and interpretation, drawing conclusions based on data and estimating the present or predicting the future.

sta-tis-tics

A set of numbers which represent facts or measurements.



Michael-Florentius Van Langren (27 April 1598 – May 1675) was a Dutch astronomer and cartographer. In 1644, Michael van Langren depicted of 12 determinations of the longitude from Toledo to Rome. It's most likely the first visual representation of statistical data.



Longitude. Michael F. Langren, 1644

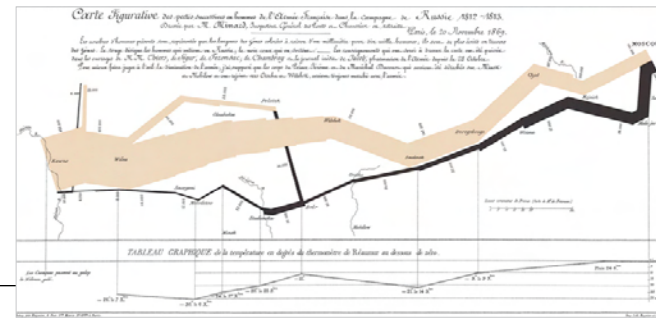


William Playfair (Sept 22, 1759 – Feb 11, 1823) was a Scottish engineer and political economist, who is considered the founder of graphical methods of statistics. William Playfair invented four types of diagrams: in 1786 the line graph and bar chart of economic data, and in 1801 the pie chart and circle graph.

Charles Joseph Minard (27 March 1781 – 24 October 1870) was a French civil engineer noted for his inventions in the field of information graphics. Minard is famous for his flow map of Napoleon's disastrous Russian campaign of 1812. The graph displays several variables in a single two-dimensional image:

- the army's location & direction
- the declining size of the army
- the low temperatures

Flow Map Charles J. Minard, 1859



Martha Pettit

05

RAY & CHARLES EAMES

Information Design Through Films & Exhibitions



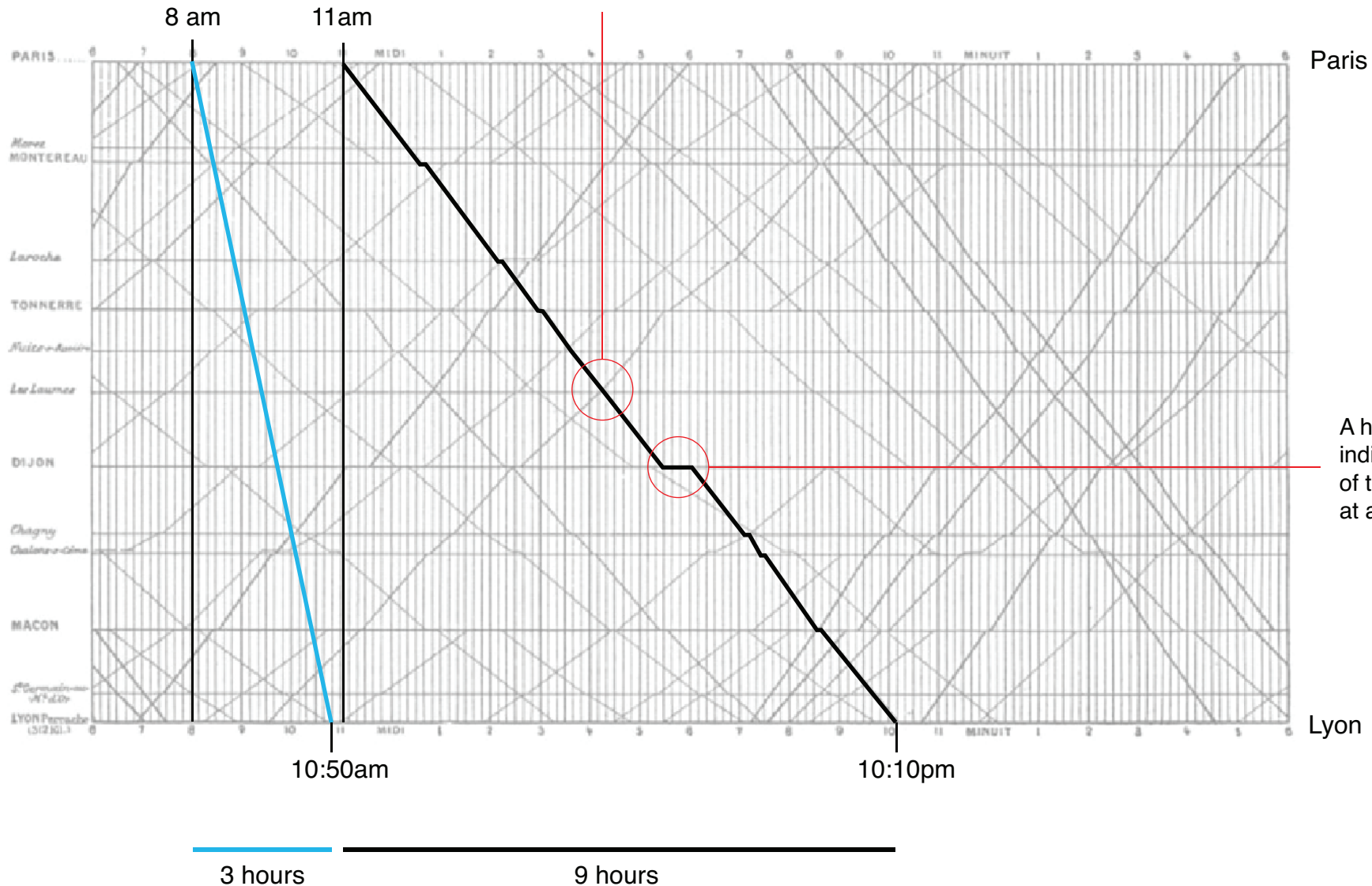
Gritchelle Fallesgon



DESIGN DUO, RAY AND CHARLES EAMES are most often known for their iconic mid-century modern furniture designs for Herman Miller: the Eames Lounge Chair and Eames Lounge Chair Wood. What most people do not realize is that the Eames, were more than furniture designers, they were photographers, architects, and most importantly information

Graphical train schedule – Paris-Lyon, 1885

The intersection of two lines locates the time and place that trains going in opposite direction pass each other.



BASEBALL

basic rules & game play

BASEBALL FACIAL HAIR variations & styles

THE STRIKE ZONE

DEFENSIVE POSITIONS

BASE ON BALLS

SCORING RUNS

STRIKE OUT

STEALING

AN INNING

FOUL BALL

BATTING ORDER

SACRIFICE FLY

FORCE PLAY

HOME RUN

DOUBLE PLAY

TYPES OF HITS

INFIELD FLY RULE

DIMENSIONS

THE COUNT

CALLLED STRIKE

Called strike is not struck at, if any part of the ball passes through any part of the strike zone.

FOUL BALL

A batted ball that is foul is a foul ball. A batted ball that is foul is a foul ball. A batted ball that is foul is a foul ball.

FOUL TIP

A batted ball that is foul is a foul ball. A batted ball that is foul is a foul ball. A batted ball that is foul is a foul ball.

BALL

A ball that passes outside of the strike zone and is not caught is a ball. A ball that passes outside of the strike zone and is not caught is a ball.

SWING AND MISSED STRIKE

A swing and missed strike is a strike. A swing and missed strike is a strike. A swing and missed strike is a strike.

GROUND RULE BUNTING DOUBLE

A batted ball that is a ground rule bunting double is a double. A batted ball that is a ground rule bunting double is a double. A batted ball that is a ground rule bunting double is a double.

BASEBALL FACIAL HAIR variations & styles

Commissioner, Team Cap, Sideburns, The Mocha, Tapered, Side Part, Faded, Undercut, and The Beard.

THE STRIKE ZONE

The strike zone is the area between the knees and the top of the shoulders.

DEFENSIVE POSITIONS

Pitcher, Catcher, First Baseman, Second Baseman, Shortstop, and Third Baseman.

BASE ON BALLS

A base on ball is awarded when the pitcher throws four balls.

SCORING RUNS

A scoring run is awarded when a runner crosses home plate.

STRIKE OUT

A strike out is awarded when the batter swings and misses three times.

STEALING

A steal is awarded when a runner advances a base.

AN INNING

An inning is a period of play consisting of three outs.

FOUL BALL

A foul ball is a batted ball that is not in play.

BATTING ORDER

The batting order is the sequence of batters in the field.

SACRIFICE FLY

A sacrifice fly is a batted ball that is caught.

FORCE PLAY

A force play is a play where a runner is forced to advance.

HOME RUN

A home run is a batted ball that is a home run.

DOUBLE PLAY

A double play is a play where two outs are recorded.

TYPES OF HITS

Single, Double, Triple, and Home Run.

INFIELD FLY RULE

The infield fly rule is a rule that prevents a double play.

DIMENSIONS

The dimensions of a baseball field are 90 feet between bases and 127 feet 6 inches from home to center field.

THE COUNT

The count is the number of balls and strikes.

CALLLED STRIKE

A called strike is a strike that is not swung at.

FOUL BALL

A foul ball is a batted ball that is not in play.

FOUL TIP

A foul tip is a batted ball that is caught.

BALL

A ball is a batted ball that is in play.

SWING AND MISSED STRIKE

A swing and missed strike is a strike.

GROUND RULE BUNTING DOUBLE

A ground rule bunting double is a double.

Derek Fletcher

AMERICAN CIVIL WAR 1861-1865

MAJOR EVENTS LEADING TO THE CIVIL WAR

PEOPLE OF IMPORTANCE

Abraham Lincoln

1809-1865. 16th President of the United States. Led the nation through the Civil War.

Jefferson Davis

1808-1889. President of the Confederate States of America.

Ulysses S. Grant

1822-1885. Union General and 18th President of the United States.

Robert E. Lee

1807-1870. Confederate General.

UNITED STATES OF AMERICA 1860

CASUALTIES

Category	Union	Confederate
COMBAT DEATHS	110,270	110,270
OTHER DEATHS	174,000	348,458
WOUNDED	1,171,200	1,171,175
TOTAL	1,455,470	1,630,903

DEADLIEST BATTLES

Battle	Union and Confederate Killed, Wounded, Missing, Captured (Total)
1 GETTYSBURG	51,113
2 CHANCELLORVILLE	30,099
3 SPOTTSYLVANIA	17,100
4 BATTLE OF PETERSBURG	16,134
5 VICKSBURG	16,046
6 BATTLE OF SHILOH	16,311
7 BATTLE OF FREEMAN'S GROVE	16,046
8 BATTLE OF BULL RUN	15,741
9 BATTLE OF FORT DONELSON	11,655

HOW DOES THIS WAR COMPARE TO OTHER AMERICAN WARS?

WAR BETWEEN THE STATES A COUNTRY DIVIDED

Mary Hickox

How legitimate is our ELECTORAL COLLEGE?

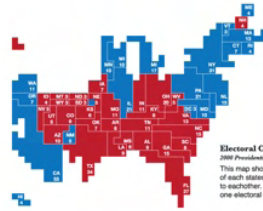
2000 Bush / Gore

What is the Electoral College?

Americans elect the President and Vice-president through a method of indirect popular election. However, votes actually count towards a group of electors who pledge to vote for a specific candidate when the Electoral College meets in December. The "Electoral College" is the unofficial term coined in the 1800s for the group of citizens selected by the people to cast votes for President and Vice-President.

The presidential/vice-presidential pair who wins the popular vote in any given state receives all of the state's number of Electoral College votes. In the end, the winner of the race is the candidate who receives a majority (270) of the 538 Electoral College votes.

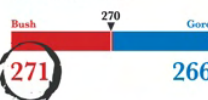
*The exceptions are Maine and Nebraska, where a proportional method for allocating votes is used.



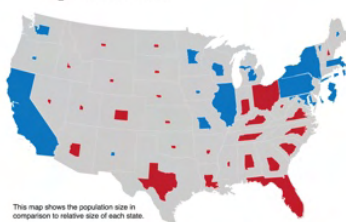
Popular Vote
GORE 50,999,897
BUSH 50,456,002

This shows the total number of votes by all Americans in the 2000 Presidential Election. If we search for the Electoral College AI Gore would have won the presidency.

Electoral Vote



Population Scale

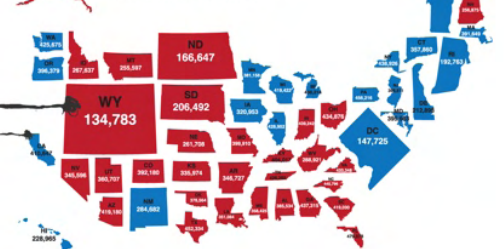


How does that work?

Although Gore won the popular vote, Bush won the presidency. This is because of the disproportionate scale of each state's population combined with their number of electoral college members. Each state receives one elector from the Senate and two from the House of Representatives; the additional electoral college members are elected through a means of population size.

Vote's Worth

Because of the 3 elector votes given to each state, the number of votes per elector is weighted unevenly giving states like Wyoming a greater pull on the election.



Average Vote Per Elector

GORE 191,728.94
BUSH 186,184.51

Electoral College Summary

The Electoral College is why we have odd circumstances as seen in the 2000 Presidential Election where George W. Bush won the presidency although he lost the popular vote to Al Gore. Bush took all the small states, having a greater weight, to swing the election in his favor.

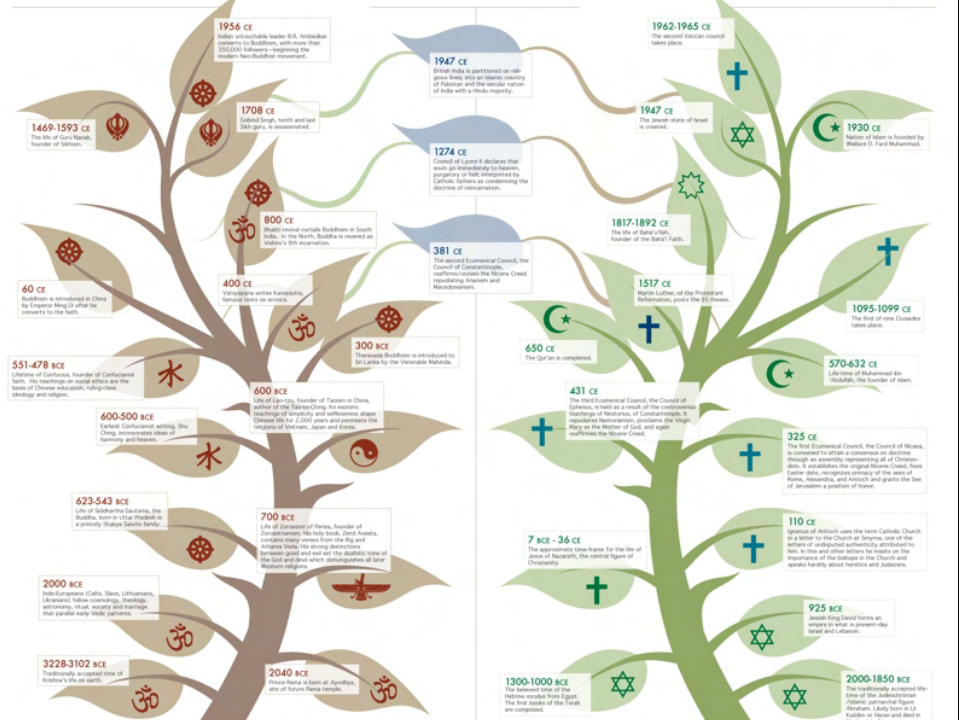
Compare the size of the states in the Population map above with the Vote's Worth map to the right get a real feeling for how some of our small states can make a big difference in the outcome of the elections.

MAJOR WORLD RELIGIONS

EASTERN RELIGIONS

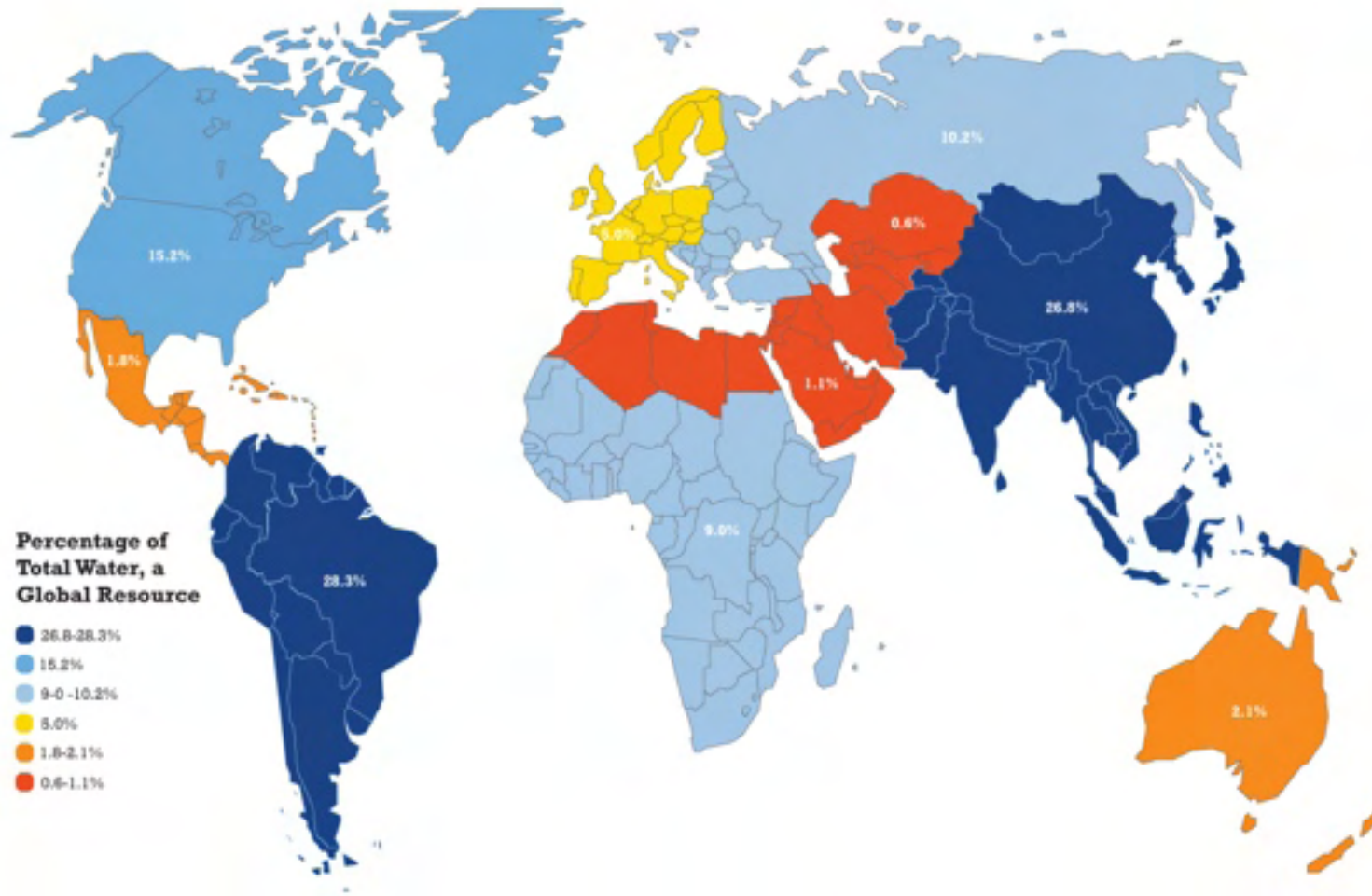
CONNECTIONS

ABRAHAMIC RELIGIONS



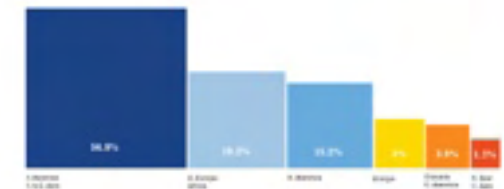
HINDUISM	ZOROASTRIANISM	BUDDHISM	CONFUCIANISM	TAOISM	SIKHISM	JUDAISM	CHRISTIANITY	CATHOLICISM	ISLAM	PROTESTANTISM	BAHAIISM
Date of Origin: 1500 BCE Place of Origin: India Founder: Unknown Daily: Daily Scripture: Vedas, Upanishads Fate: Hinduism is the dominant religion in India. Followers Today: 753 Million	Date of Origin: 600 BCE Place of Origin: Persia Founder: Zoroaster Daily: Daily Scripture: Avesta Fate: Zoroastrianism is a monotheistic religion that predates Judaism and Islam. Followers Today: 200,000	Date of Origin: 500 BCE Place of Origin: India Founder: Siddhartha Gautama Daily: Daily Scripture: Tripitaka Fate: Buddhism is a major world religion. Followers Today: 325 Million	Date of Origin: 500 BCE Place of Origin: China Founder: Confucius Daily: Daily Scripture: Analects, Mencius Fate: Confucianism is a philosophical system that emphasizes social harmony. Followers Today: 221 Million	Date of Origin: 600 BCE Place of Origin: China Founder: Lao-tzu Daily: Daily Scripture: Tao Te Ching Fate: Taoism is a philosophical system that emphasizes harmony with nature. Followers Today: 19 Million	Date of Origin: 1500 BCE Place of Origin: Punjab, India Founder: Guru Nanak Daily: Daily Scripture: Guru Granth Sahib Fate: Sikhism is a monotheistic religion that predates Judaism and Islam. Followers Today: 25 Million	Date of Origin: 1200 BCE Place of Origin: Israel Founder: Abraham Daily: Daily Scripture: Torah Fate: Judaism is a monotheistic religion that predates Christianity and Islam. Followers Today: 14 Million	Date of Origin: 30 CE Place of Origin: Jerusalem Founder: Jesus Christ Daily: Daily Scripture: New Testament Fate: Christianity is the largest religion in the world. Followers Today: 2.1 Billion	Date of Origin: 30 CE Place of Origin: Rome Founder: Peter Paul Daily: Daily Scripture: Bible Fate: Catholicism is the largest Christian denomination. Followers Today: 511 Million	Date of Origin: 600 CE Place of Origin: Mecca, Saudi Arabia Founder: Muhammad Daily: Daily Scripture: Quran Fate: Islam is the second largest religion in the world. Followers Today: 1.8 Billion	Date of Origin: 1517 CE Place of Origin: Wittenberg, Germany Founder: Martin Luther Daily: Daily Scripture: Bible Fate: Protestantism is a major branch of Christianity. Followers Today: 800 Million	Date of Origin: 1850 CE Place of Origin: Haifa, Palestine Founder: Bahá'u'lláh Daily: Daily Scripture: Kitáb-i-Aqdas Fate: Bahaiism is a monotheistic religion that predates Christianity and Islam. Followers Today: 6 Million

Water As a Global Resource



Water Scarcity A Growing Global Problem

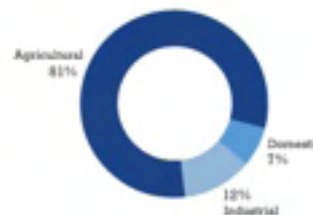
Since 1960 the world's population has doubled. With population growth comes the international need for water. According to the United Nations Environment Programme, more than half of the world's population will struggle with water shortages by 2030. Today rivers, lakes, and reservoirs are being fought over. Climate changes are melting glaciers and sea levels are rising, spoiling fresh water resources. The world is in a water crisis. While the population can help by reducing water use domestically, there can always be away to conserve more water.



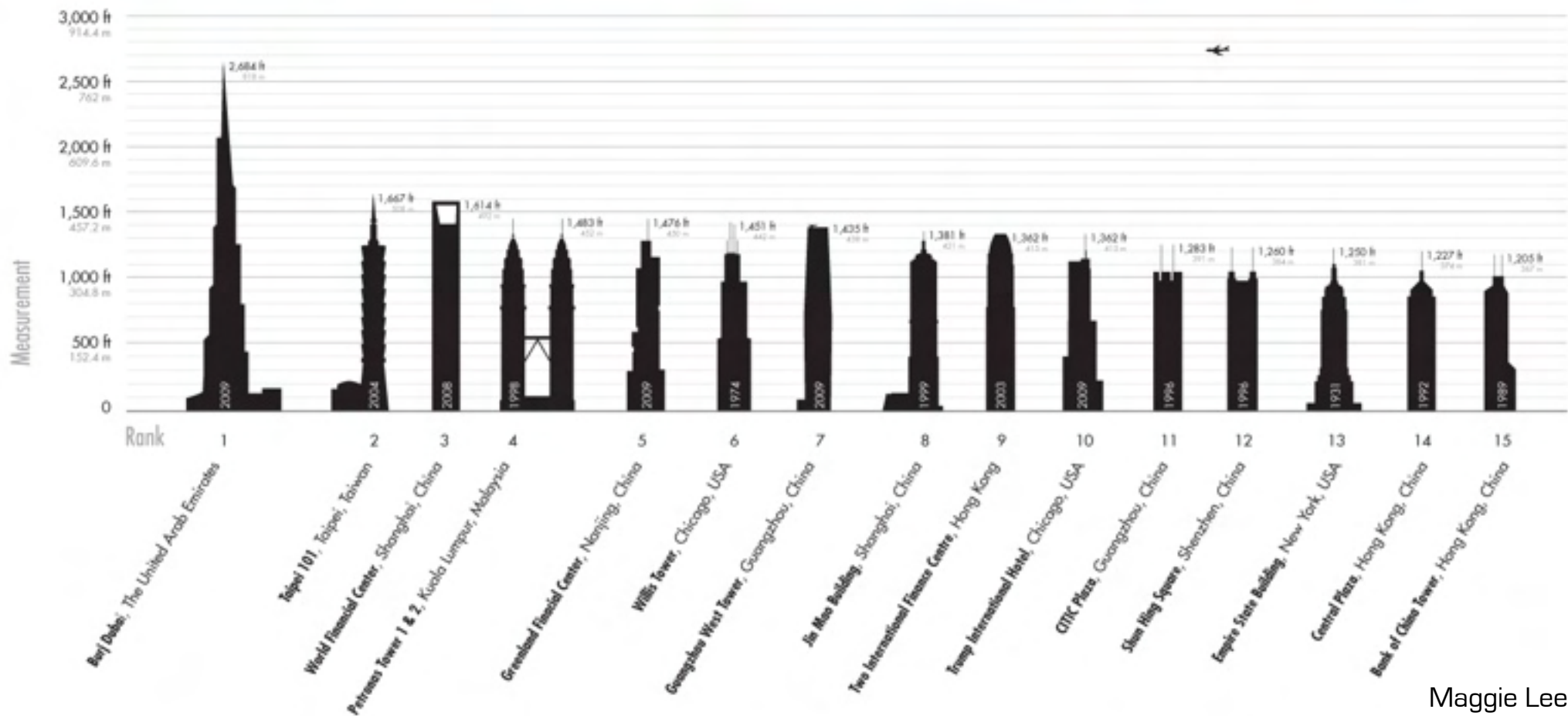
The visual map to the left shows the percentage of total water use in each region. While this is an effective visual, the size of the regions do not show the different percentage ratios. To compare ratios, the visual above shows the percentage of water used by a per-capita basis.

Water Use by Sector Agricultural, Domestic, and Industrial

Water use can be broken down into three main categories, water consumption domestically, industrially, and agriculturally. The Food and Agriculture Organization claims that 70 percent of world water goes to agriculture. Currently, countries considered low income are using most of their water agriculturally to provide food globally. These are also



World's Tallest Buildings 2009



Maggie Lee

Location Map

World Map: wikipedia.org



World's Tallest Building Criteria

Reference: skyscraper.com

Criteria for Inclusion on the List of 100 Tallest Buildings by the Council on Tall Buildings and Urban Habitat

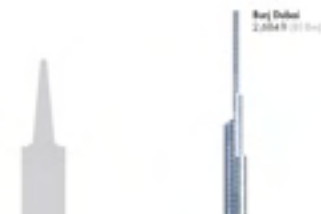
This data was gathered and/or supplied by members and representatives of the Council on Tall Buildings and Urban Habitat who represent world leaders in the field of the built

When does a building appear on the list?

When a building is "topped out"—the point of construction when the structure has met its proposed structural top (see height definition below)—the building is officially ranked and is placed on the list.

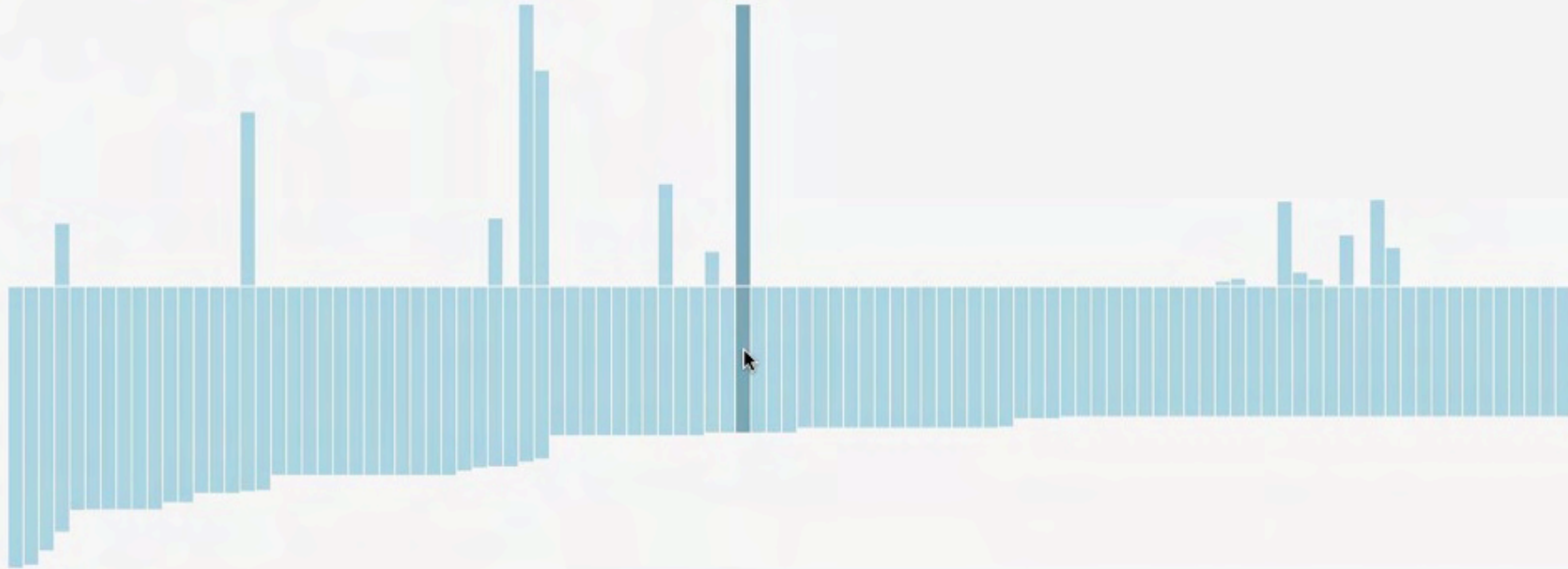
Rank

Ranking is determined by height to the structural top of the building (see above). If there is a tie, the building with the larger number of stories is ranked higher. If a tie still remains, the building that was completed first is ranked higher. If a tie would still



Jun Wang
Readers: 455
LinkedIn connections: 500
<http://www.linkedin.com/pub/jun-wang/3/9aa/98a>
BUT! There are 7 matching results from LinkedIn...

LinkedIn connections



Mendeley's readers

Authors of the most read papers in biology (from Mendeley). Visualization by Giorgio Caviglia, William Gunn and Pino Trogu for the [Data in Sight challenge](#)

[academia iceberg](http://academia.iceberg)

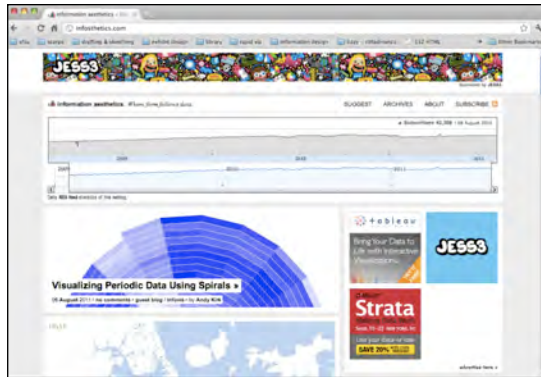
processing.org

[data in sight hackathon](#)

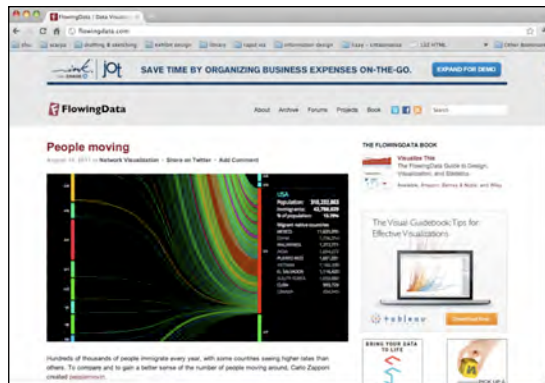
d3.js

Giorgio Caviglia, William Gunn, Pino Trogu

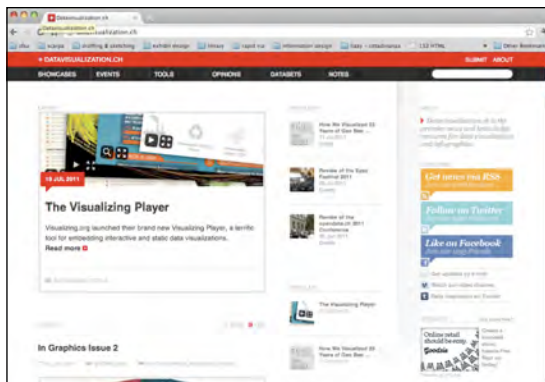
infosthetics.com



flowingdata.com



datavisualization.ch



class blog:

523informationdesign.blogspot.com



Google public data explorer:

google.com/publicdata/home



524

Information Design 2: Exhibits



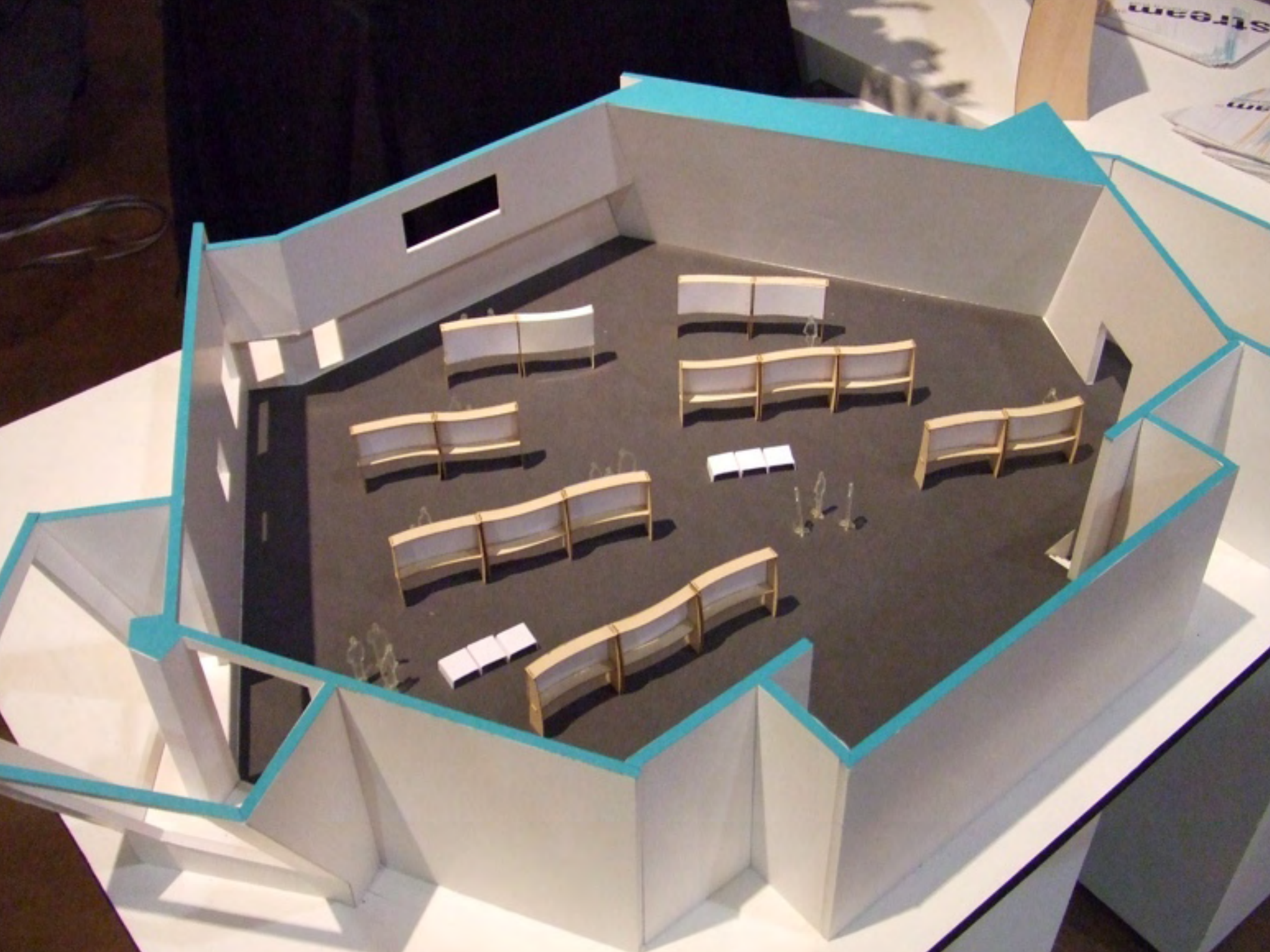
Stream²⁰

FLUIDITY IN DESIGN

FOR ENTRIES

ANNIVERSARY STUDENT EXHIBITION

Office FA121



Masked Guerrillas

December 2008



simple
EMPLOYED
STUDENT
DESIGNER
FRIENDSHIP
INDEPENDENT
AND
FUNNY
ENJOYS
MOVIES
SAMSAM
SEEKING
AF
RESPECTABLE
WHO
FIRST
STUFF





Dream

Ultra

The Lonely Untel

IMAGINE
TOUCH
FEEL

female: 2 gemin
seeks a fitting
funny and talkie
man

Live.
Learn.
Explore.

Ear Level

COACH

i n p u l s e

2010

THE RHYTHMS OF DESIGN





>>> In Pulse: The Rhythms of Design

Video presentation by Nancy Salcedo [on Youtube]

t h e

r h y t h m s

o f

d e s i g n





design is information

Sex?

THERE IS NO SUCH THING AS A FREE LUNCH

design is technical

Divine Math

design is development

design is research

design is concept

impossible

OctoGas & Pals

impossible



Din pulse se V



REVERB

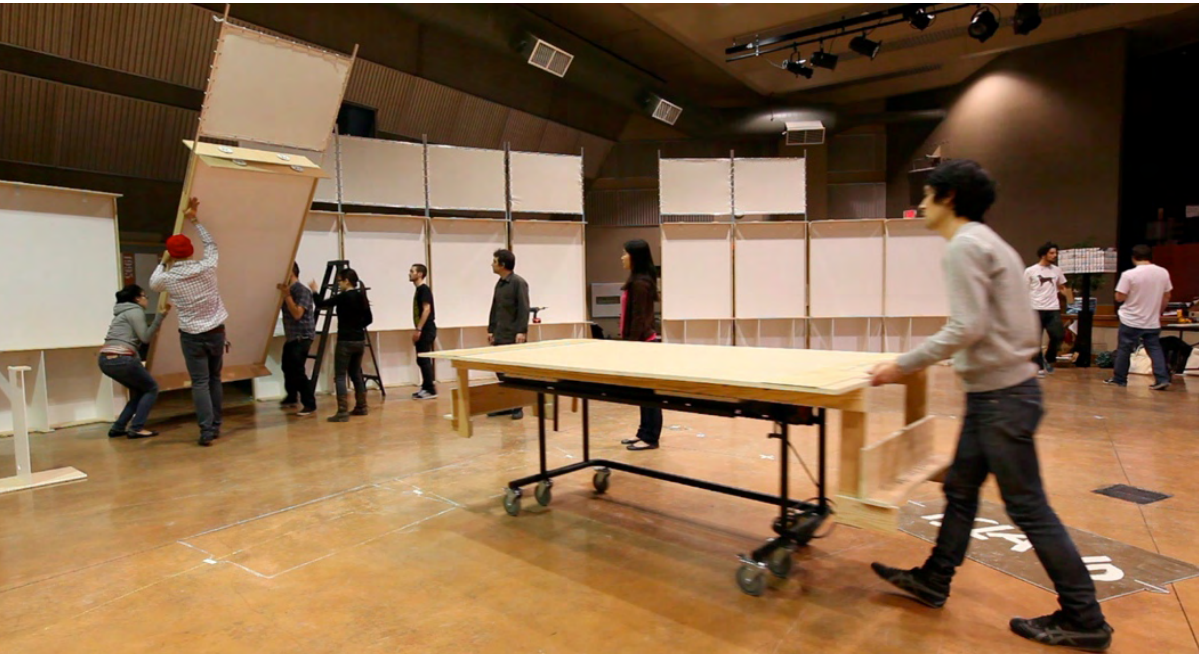
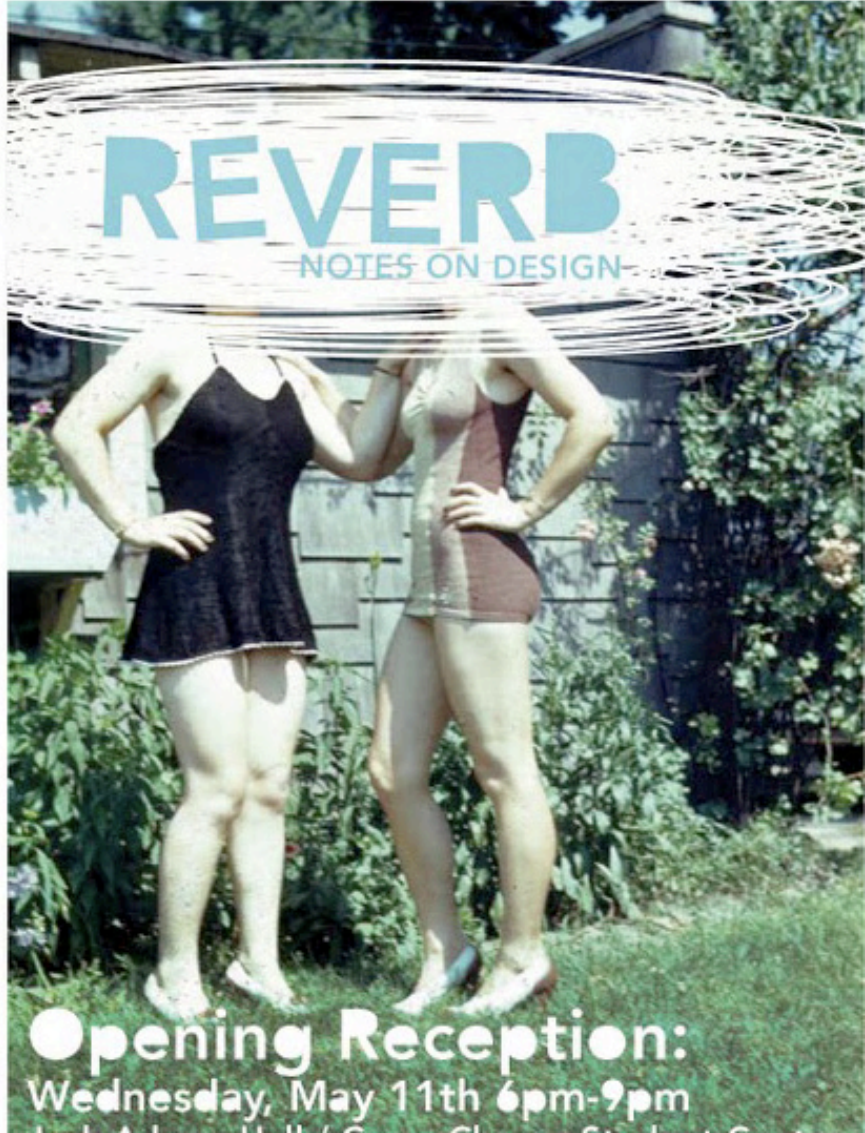
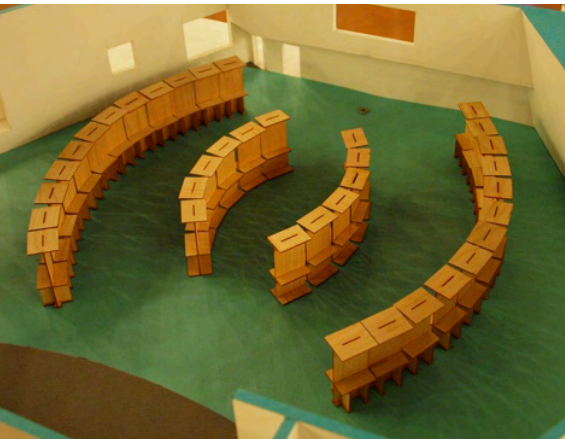
REVERB

REVERB



Reverb video by BECA students.





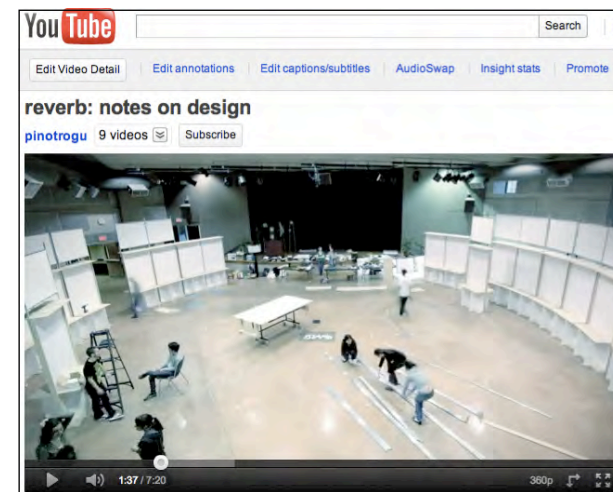


Photos: Kevin Funk

[Reverb trailer by Kevin Funk.](#)



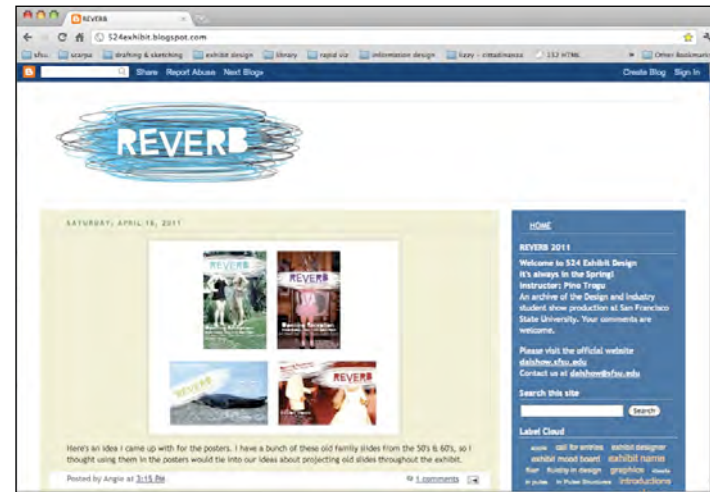
[Reverb time lapse video by Kevin Funk.](#)



[Reverb video by BECA students.](#)



[blog: 524exhibit.blogspot.com](#)



More stuff...

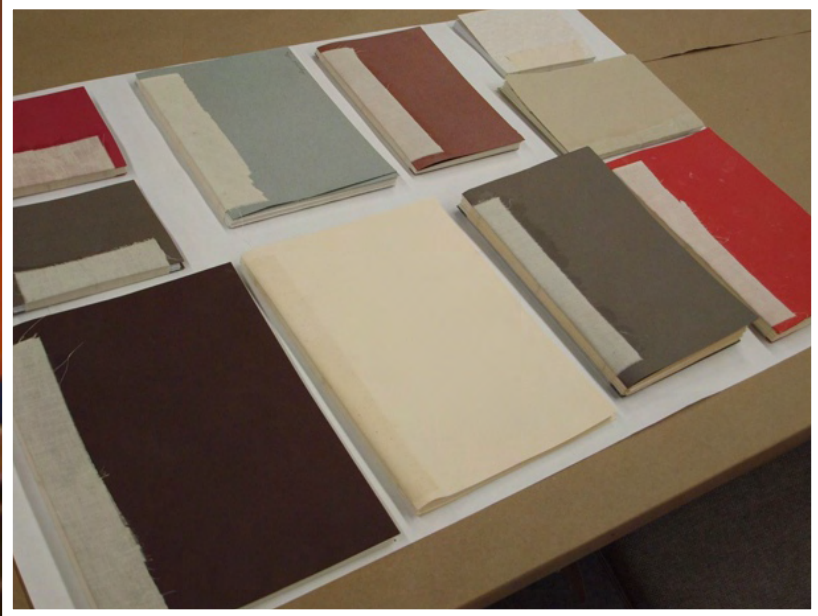


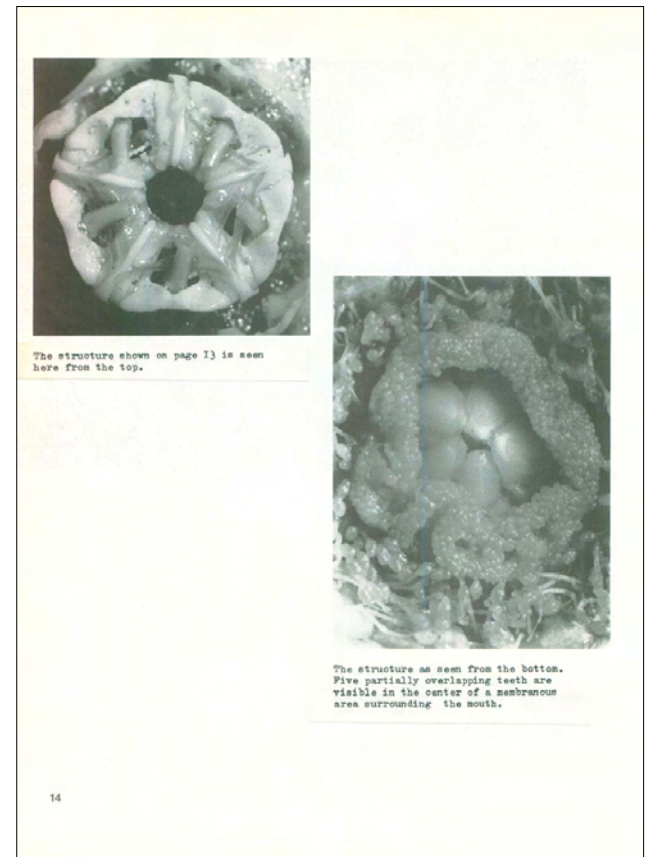
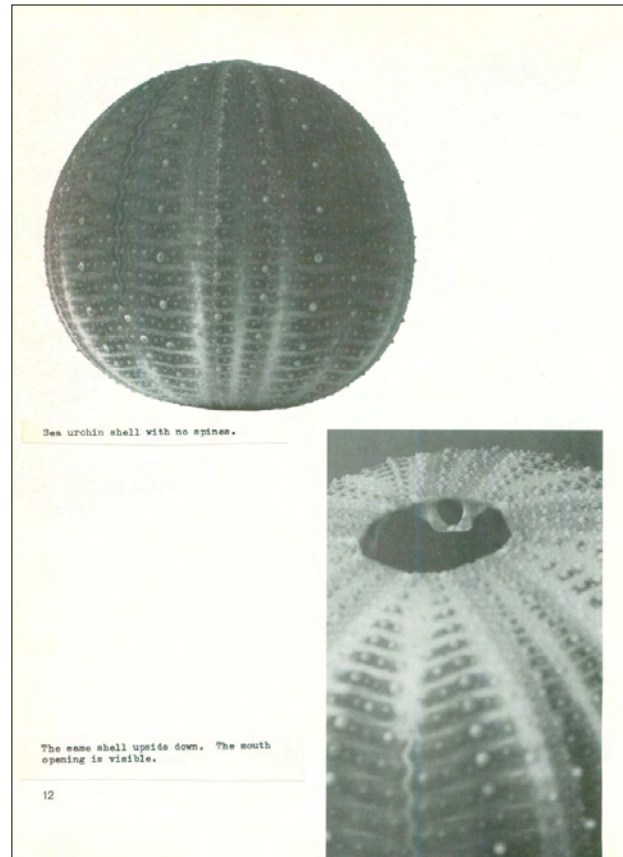
Photography workshop



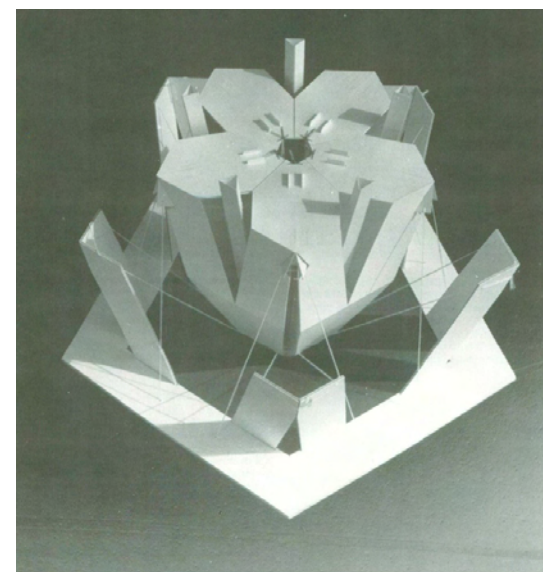
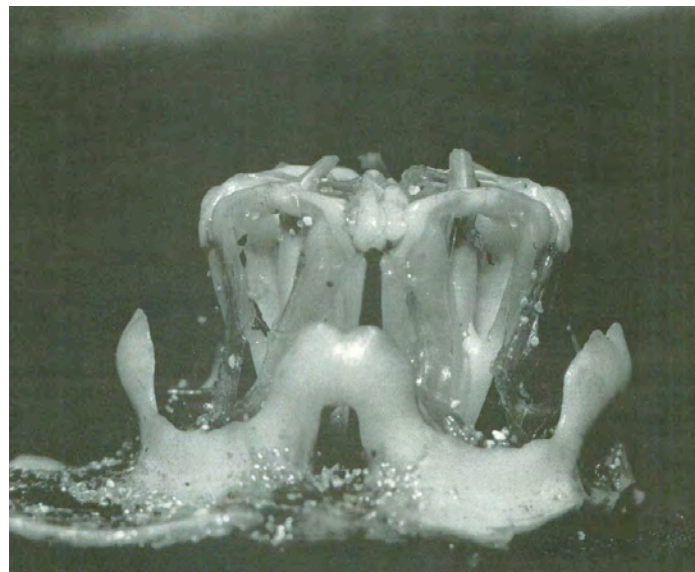


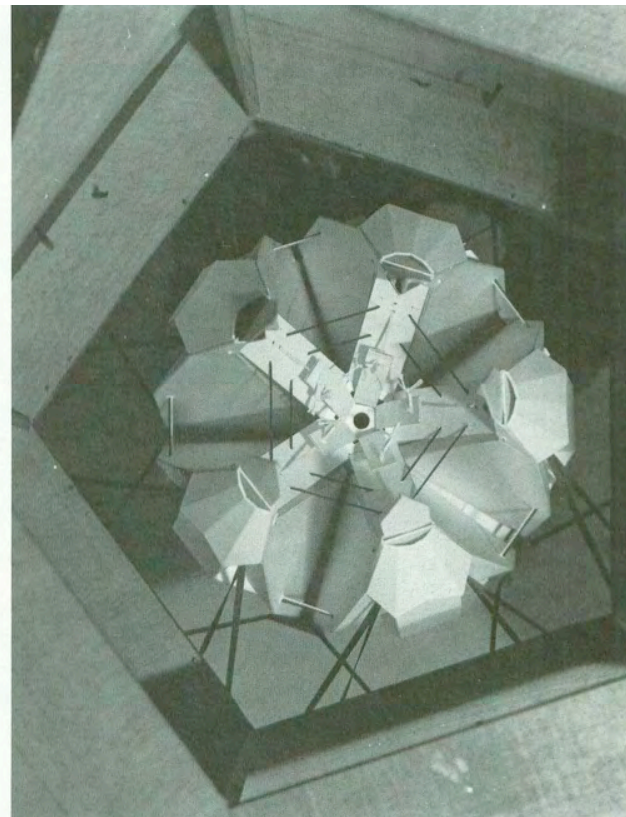
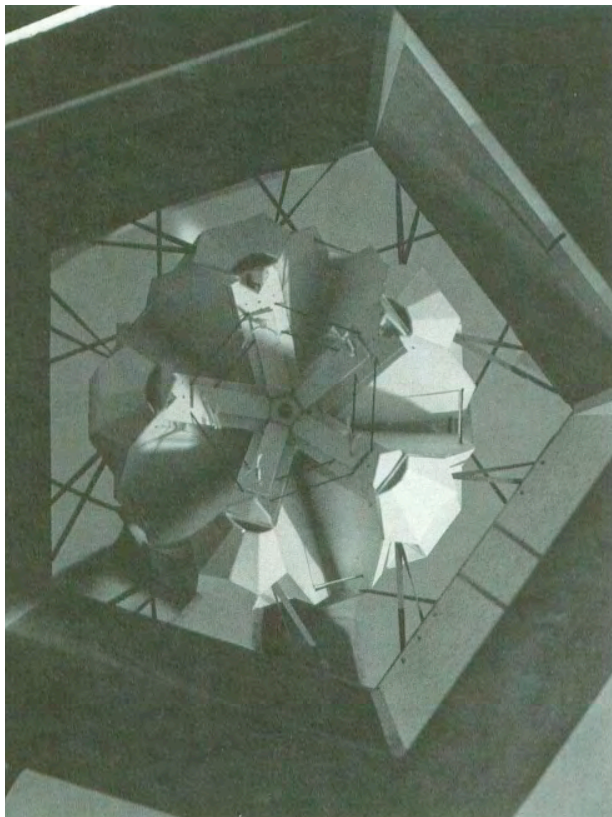
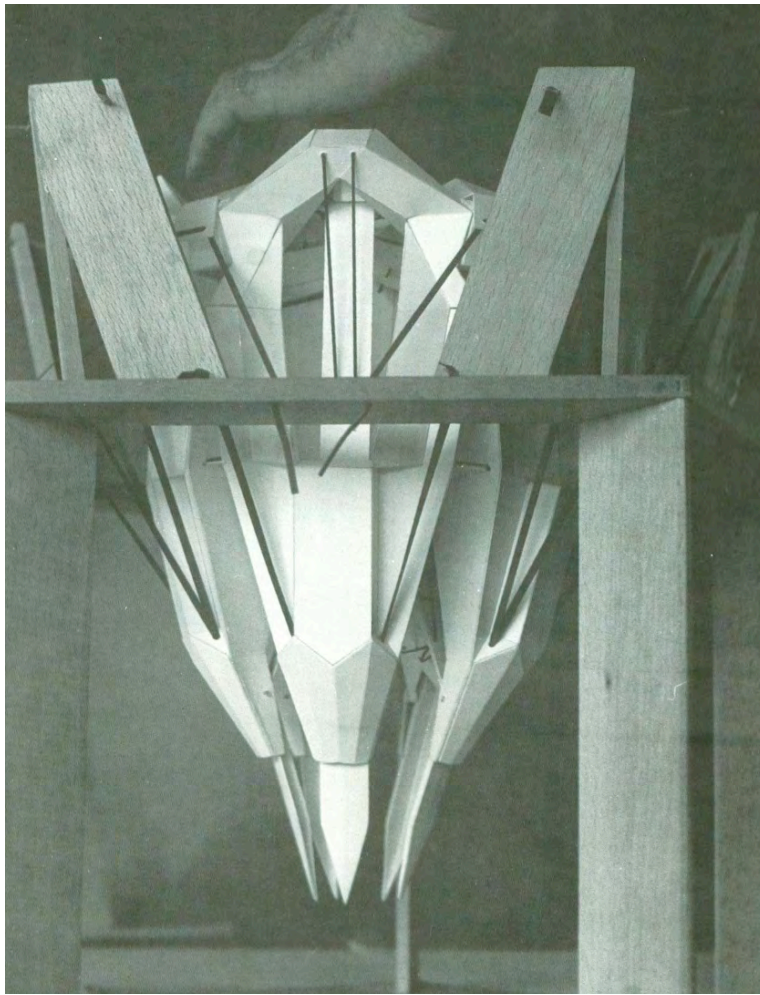
Letterpress
& bookbinding

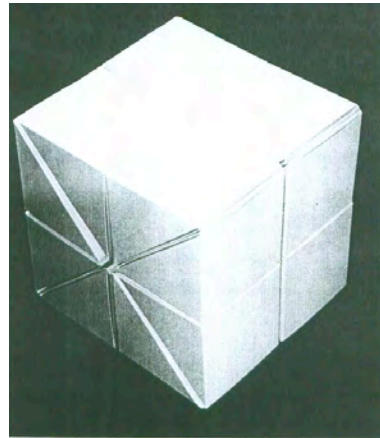




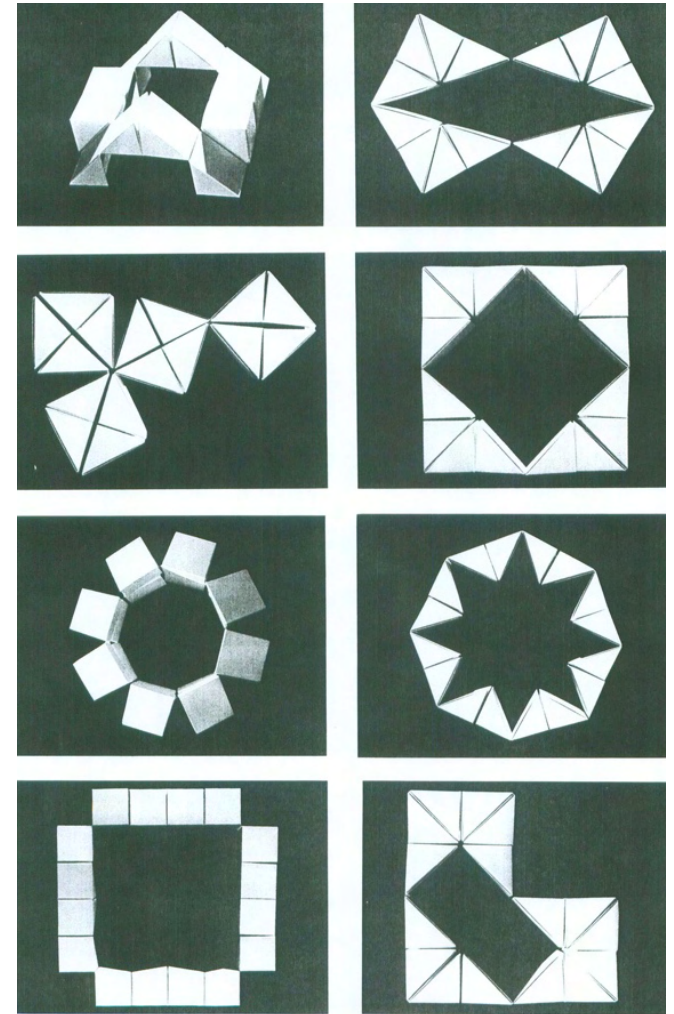
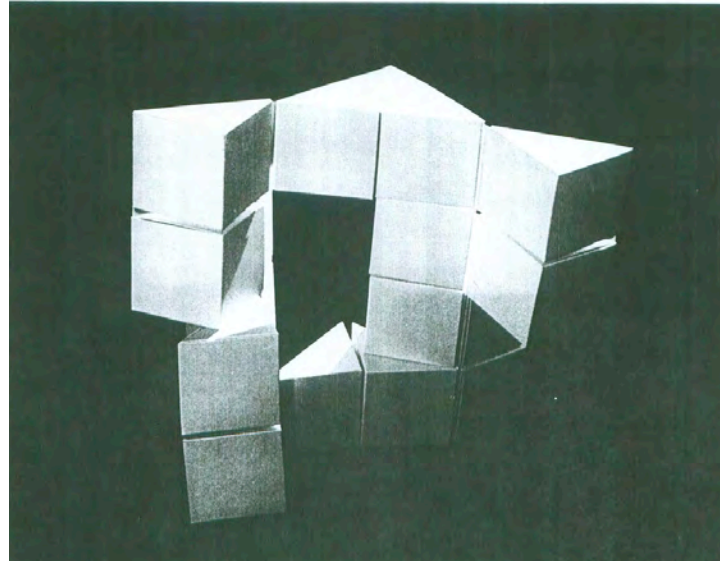
Translations:
Bionic models



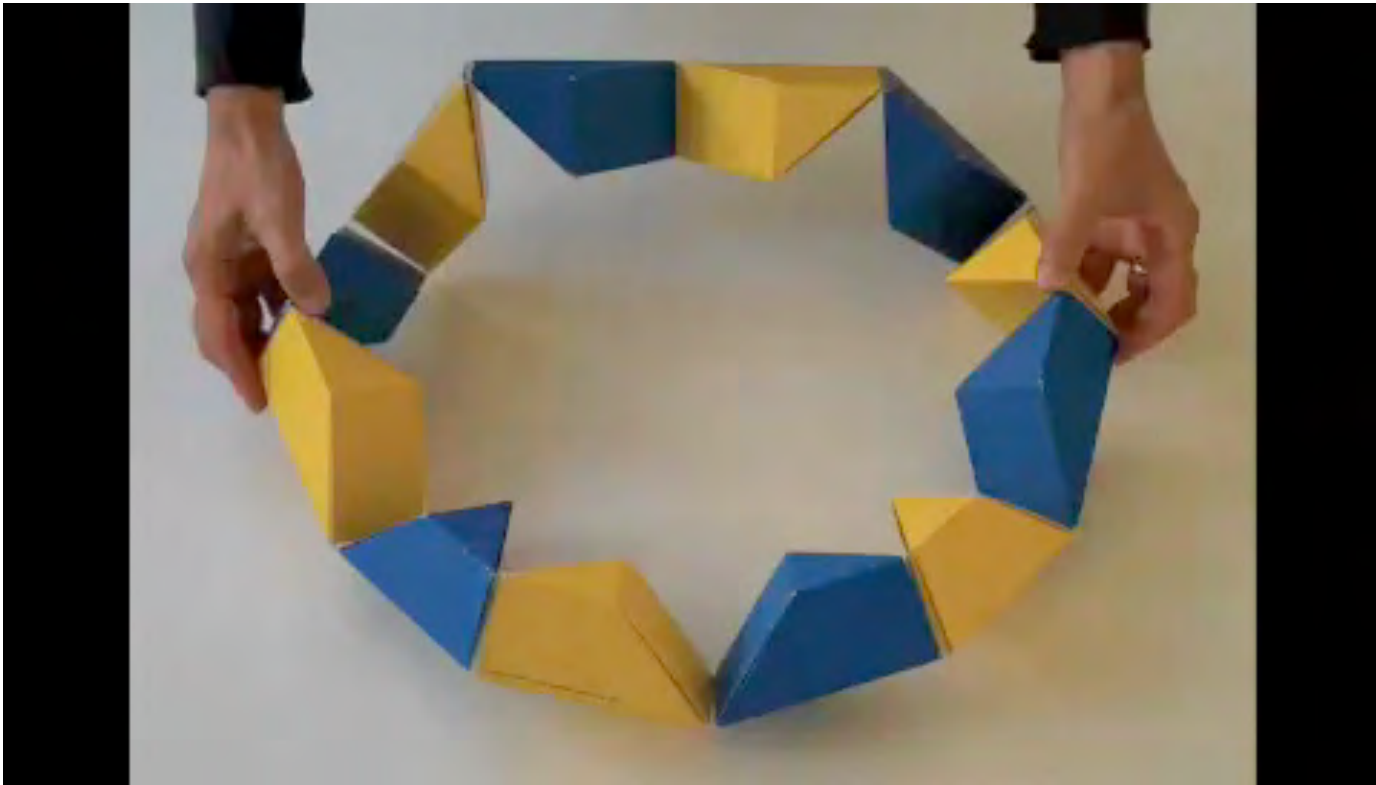




Rotazioni di catene esaedriche.



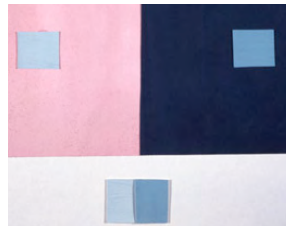
Translations:
Geometry models



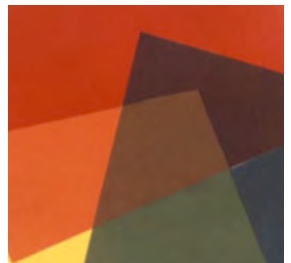


- Letterpress, typography & bookbinding
- Basic design - foundation
- Color theory
- Semiotics

[go HOME](#)



- Design criticism
- Span across disciplines
- 2D, 3D, motion graphics, web design
- Computers and pencils



- Hand-eye connection
- How to teach drawing in the age of computer
(by doing, by building, by showing)
- How to teach design in the age of multidisciplinary
work processes



- Basic principles of design
- How to integrate the principles (less variable) with the
methods and technologies (more variable)

trogu.com

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colloquium_presentations/2011](http://trogu.com/Documents/colloquium_presentations/2011)