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> ROSE GONNELLA CHRISTOPHER J. NAVETTA MAX FRIEDMAN



Design fundamentals

CIOUSS

ON VISUAL

ELEMENTS

E PRINCIPLES &

COMPOSITION

Design Fundamentals: Notes on Visual Elements and Principles of Composition

Rose Gonnella, Christopher J. Navetta, and Max Friedman

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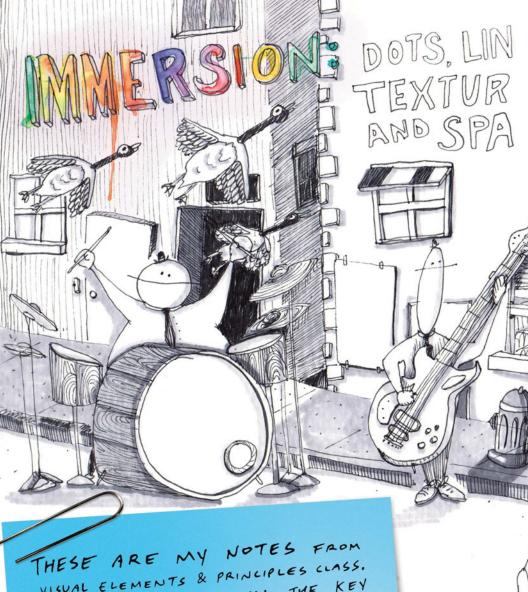










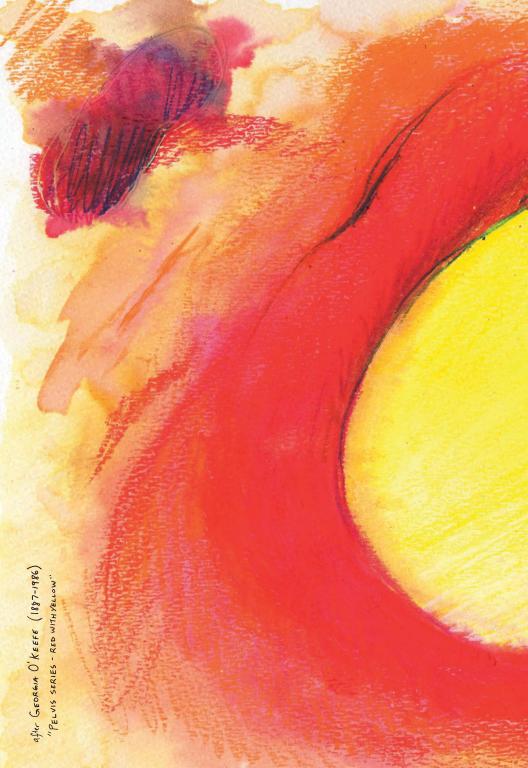


THESE ARE MY NOTES FROM
VISUAL ELEMENTS & PRINCIPLES CLASS.

I TRIED TO INCLUDE ALL THE KEY
POINTS AND EXERCISES WITH MY
ILLUSTRATIONS. THE CLASS WEBSITE,
WWW. DESIGN-FUNDAMENTALS.COM
HAS SOME GREAT INFORMATION AS WELL.

PINTEREST. COM DSN FUNDAMENTALS

ES. SHAPES, FORMS, ES. PATTERNS, COLORS, E VISUAL ELEMENTS GN COMPRISE E PHYSICAL ENVIRONMENI ALLAROUND



# TERMS VARY

NOT ALL ARTISTS, DESIGNERS, WRITERS, AND CRITICS AGREE ON WHAT CONSTITUTES THE BASIC VISUAL ELEMENTS & PRINCIPLES of COMPOSITION. TERMS VARY AS WELL.

FOR SOME, THE WORD "FORMAL" REPLACES "VISUAL," REFERRING TO THE BASIC ELEMENTS.

SOME SEPARATE "Space" INTO ITS OWN
CATEGORY BETWEEN ELEMENTS AND PRINCIPLES.

OTHERS CONSIDER DOT, LINE, AND FORM TO BE ONE ELEMENT, SUBSETS OF SHAPED.

A SUBSET OF COLOR, VALUE (SHADES)
GRAY

CAN BE SEEN AS DISTINCT ENOUGH TO SEPARATE
INTO A VISUAL ELEMENT APART FROM COLOR.

- THE TERMS FOR THE PRINCIPLES ALSO VARY

THE WORD "CONTRAST" SOMETIMES
REPLACES THE WORD HIERARCHY. HARMONY
IN SOME DISCUSSIONS REPLACES THE WORD
UNITY. THE SINGLE TERM FOR THE
OVERALL SUCCESSFUL COMPOSITION
OF THE ELEMENTS IS ALSO HARMONY.

DESPITE THE VARIATIONS (THERE ARE MORE),
WITH ANY DISCUSSION OF THE VISUAL ELEMENTS
AND THE PRINCIPLES OF COMPOSITION, THE
OUT COME IS THE SAME:

SUCCESS IN DESIGN.



OR SIPM =

SIMPLIFIES, TRANSLATES, SYNTHESIZES,

REORDERS VISUAL ELEMENTS, MAGINTO TIGHT, BEAUTIFULLY ORCHESTRATED

COMPOSITIONS ON THE FLAT PLANE

OF TWO DIMENSIONAL

SURFACES OR IN ACTUA
THE BESIDNS.

MIENDERN BALLINGE CONDING SOLD OF CONDING PRINCIPLES OF CONDING THE STATE OF CONDING THE STAT





COMPOSITION OF DOTS, LINES, SHAPES, FORMS, COLORS,
COINCIDENTAL APRANGEMENT OF VISUAL



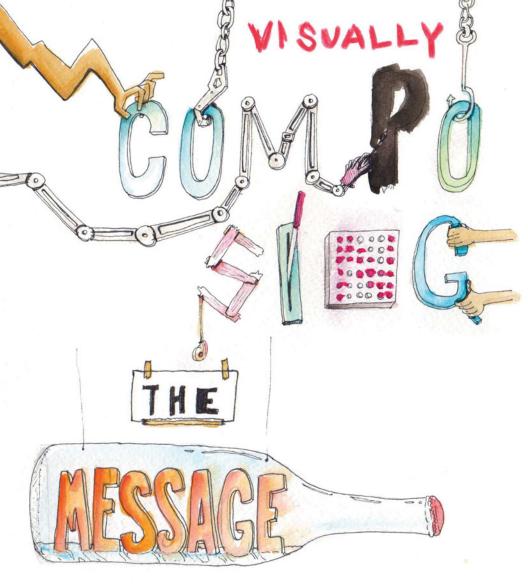
OUR EFFORTS MAKE IMAGES, DELIVER
INFORMATION, & CREATE OBJECTS,
INFORMATION, & CREATE OBJECTS



UNLIKE THE RANDOM COINCIDENCES FOUND IN NATURE, HUMANS EMPLOY THEIR SENSES, IN NATURE, HUMANS THE DECISION MAKERS IN THE PROCESS OF COMPOSING IMAGES, INFORMATION, OBJECTS, AND STRUCTURES -





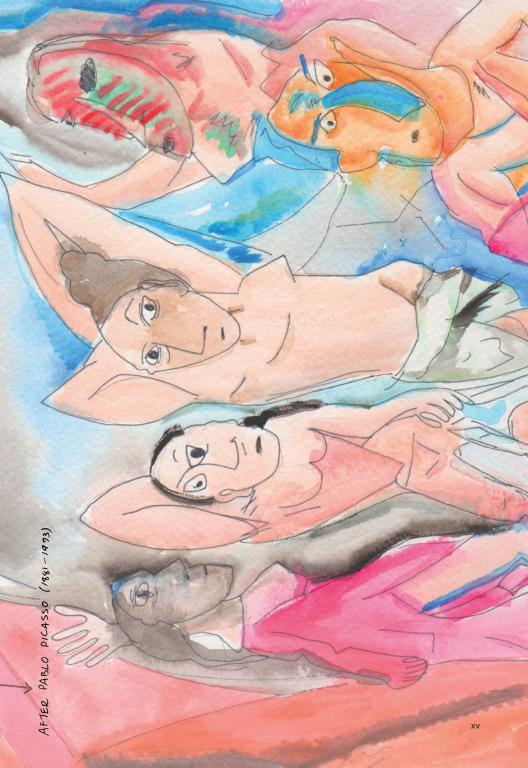


THE PURPOSEFUL COMPOSITION OF THE VISUAL ELEMENTS

IS IN SERVICE OF THE GROWN PURSUIT OF ORIGINAL, AESTHE TICALLY ENGAGING, MEANINGFUL

DESIGN TO COMMUNICATE IDEAS, CONCEPTS, COMMENTARY,

OR MESSAGES.



# IDEAS & MESSAGES CONVEYED THROUGH DESIGN

CAN BE PERSUASINELY INFORMATINE, DEEPLY
PHILOSOPHICAL, A CULTURAL
CRITIQUE, OR SOCIO-POLITICAL.

but design does not necessarily need to have a profound to message. THE MESSÄGE CAN BE INTENDED TO SIMPLY DELIGHT. after BEN SHAHN (1898-1969) TWO WHIS PERING POLITICIANS

FOR INSTANCE, AN AESTHETICALLY
PLEASANT AND BETTER FUNCTIONING



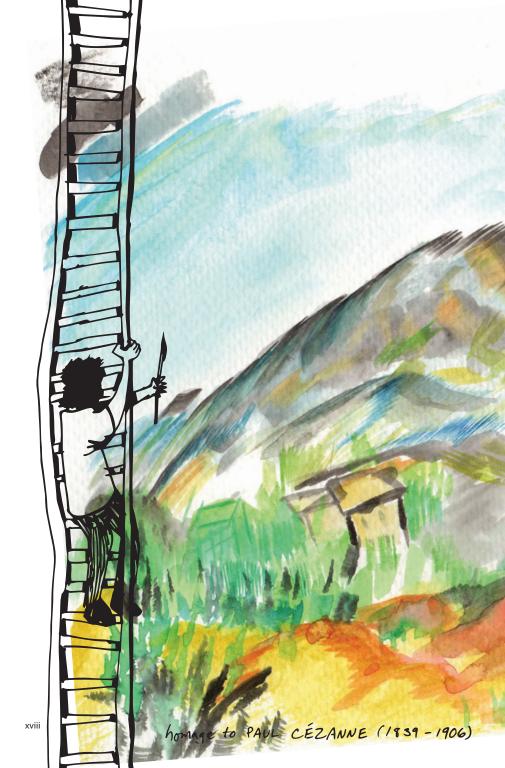
ADVERTISING DESIGN

CREATIVELY INFORMS

THE AUDIENCE OF THE

VALUE OF A PARTICULAR BRAND.





ALTHOUGH ARTISTS AND DESIGNERS
WORK WITH ESTABLISHED

PRINCIPLES OF DESIGN AND

RESTHETIC STANDARDS, THEY

OFTEN LEAD THE WAY TO

ESTABLISHING NEW FORMS & IDEAS.

BUT, BEFORE YOU CAN BREAK
THE RULES, YOU MUST MASTER
THE BASICS, WHICH REQUIRES
PRACTICAL KNOWLEDGE AND
PRACTICAL KNOWLEDGE AND
DEMONSTRATED CONTROL OF
THE VISUAL ELEMENTS AND
PRINCIPLES OF COMPOSITION.

PLAT WITH THE PARIES S

# THE CONCEPTUAL ARTIST MARCEL DUCHAMP

WANTED TO DISRUPT THE STATUS
WANTED TO DISRUPT THE STATUS

QUO BY CLAIMING ANYTHING IS

ART IF THE ARTIST SAYS IT IS

ART IF THE ARTIST SAYS IT IS

SUCH AS A STOOL WITH A DICYCLE

WHEEL PERCHED ON TOP.

FOR HIM, THE DISCUSSION OF THE VISUAL ELEMENTS WOULD BE AND A DISTRACTION FROM THE MESSAGE.

BUT DUCHAMP HELD THE KNOWLEDGE OF

THE VISUAL ELEMENTS AND PRINCIPLES OF

COMPOSITION SOMEWHERE IN HIS CB: MIND

EVEN THOUGH HIS PRIMARY INTEREST WAS

WITH THE MESSAGE, NOT THE DESIGN.





IDENTIFY THE GUIDELINES THAT DESCRIBE THE

VISUAL ELEMENTS, BE ABLE TO ANALYZE ESTABLISHED

VISUAL ELEMENTS, BE ABLE TO ANALYZE ESTABLISHED

"RULES" GOVERNING THE PRINCIPLES OF COMPOSITION,

"RULES" GOVERNING THE PRINCIPLES OF THEN GO

AND RECOGNIZE THE BOUNDARIES — THEN GO

AND RECOGNIZE THE RULES, PLAY WITH

AHEAD AND BREAK THE RULES, PLAY WITH

BOUNDARIES, AND... XXI





DOT: AN ELE MENT.









#### REAL OR SIMULATED.

### TEXTURE IS THE

ACTIVE SURFACE QUALITY of A DOT, LINE, SHAPE, OR FORM. THE SURFACE IS ACTIVE BECAUSE OUR EYES RAPIDLY SCAN UP. DOWN, OVER, ACROSS, AND AROUND THE TEXTURE TO GET A VISUAL FEEL FOR IT.





EYE SCAN IF A FACE

OPENING SPREAD: after CHARLES RENNIE MACKINTOSH (1868-1928) ROSE AND TEAR DROP



## SMOOTH AND ELEGANT OR PEACEFUL LIKE WATER, MARSH AND PRICKLY

DR SLEEK AND SLICK, earthy or ETHEREAL, TIEXTURES

SUGGEST EMOTIONS AND IDEAS.

ELCH OF US RESPONDS TO PEXPURE DASED ON OUR
STRONG MEMORIES & ASSOCIATIONS.

FURBALL: SCARY OR ADORABLE?



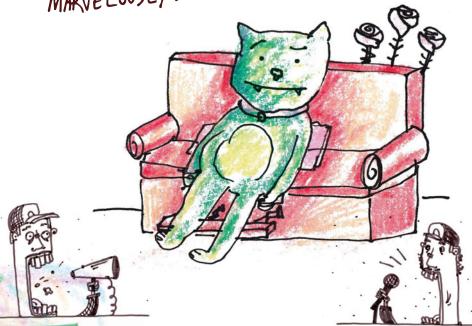
textures can be visually metaphocical or poetic too.

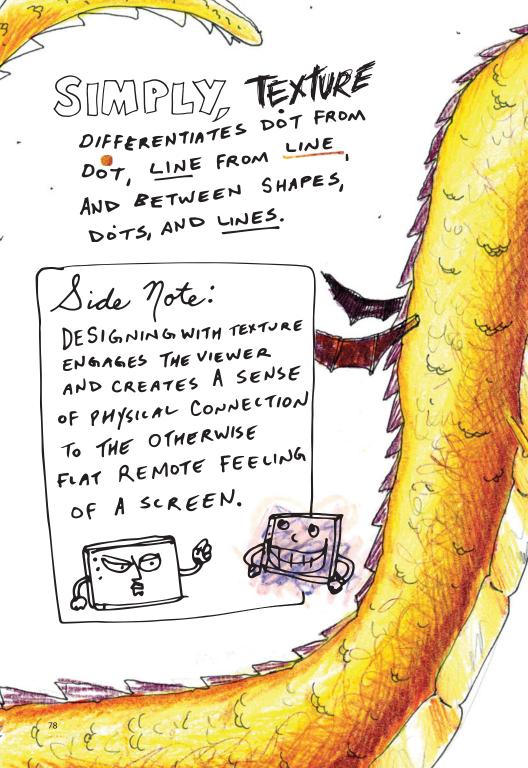


## LOVE IS AROSE.

AND PERHAPS THE POEM:

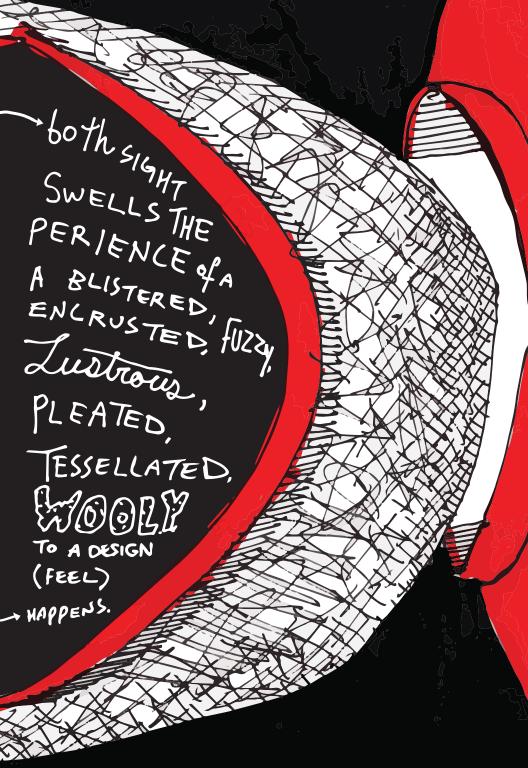
A ROSE IS A ROSE ISA ROSE IS MARVELOUSLY SOFT & WICKEDLY THORNY.







AND TOVEY SENSORY EX DESIGN. ADD CRACKED. ORNAMENTED, SEE



## ORGANIC

TEXTURES FEEL AND LOOK RANDOM, WHICH MAKES A DESIGN FEEL LIFE-LIKE.

APPLY AN ORGANIC BRICK OR STONE TEXTURE TO A DRAWING OF A CUBE & THE CUBE WILL APPEAR DENSE & HEAVY.

FROM POPPY WITH LOVE

THE TEXTURE ENHANCES THE REALITY OF THE ILLUSION.

DRAW FEATHERS W/A BRUSH AND A SOFTLINE QUALITY TO MAKE THEM "FEEL" REAL.

## TEXTURE

MAKES OBJECTS SEEM MORE LIFE-LIKE AND IMBUE THEM WITH INHERENT MEANING



4 STONE CUBE: MECHANICAL, STABLE, SOLID, STRONG. & DOWNY FEATHER=

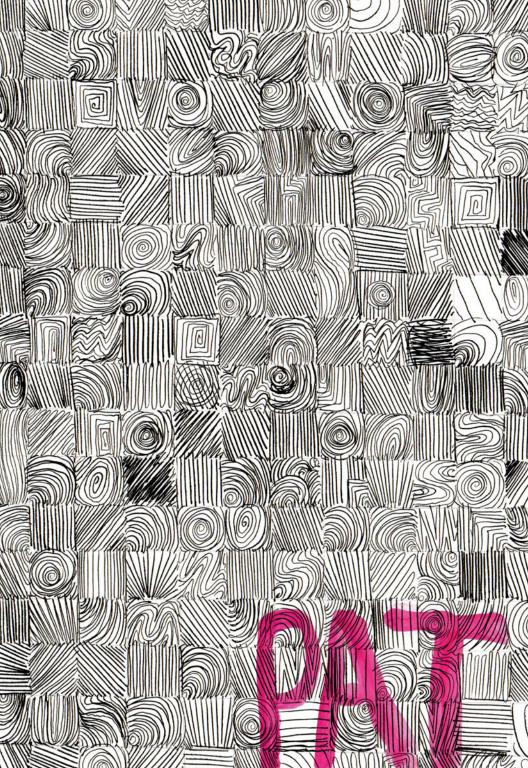
NATURAL SOFT, GENTLE, UNRESTRAINED.



CREATES A SPECIFIC SHAPES

> ffrright. 83

TEXTURE TYPE OF





# IBM IBM

NOTE:
WIRDS HAVE
TEXTURE TOO.
BEFORE BEING
READ, A GROUP
OF WORDS IS
FIRST SEEN
AS A SHAPE
(RECTANGLE,
SQUARE, ETC.)
WITH A LIGHT
OR DENSE
TEXTURE.



Hamet avidus, delum avi dem ave esplosie. Lestibus dietlat Schilles acasellogi, dendenare esplosie etil a die soldiare Schillen, quin sub, etilo lo tio te, debuti dus , dolott cores is ditexperum quisomoumagnature auptat uri quaiae evolustiop qui locotento consectione qui los serinqui acidable aqqui etrin harum velita agni tehende Imporeicae sinctur, aligent emquatur, qui ommosapi L'site cus, tem et doluptam res doloribus et quatibes demp erovitatem adis nulla que coruptatist volupta manduc ital Marchina atur apturpantidisquiodoluptummaticamido hirent arvient cost and impraction; arequisition analymiatide out furique la Ciaruihu gidio id maioriste chorse antibusa evolute est con consequediam della data voluntatali de infonctionet aut andame moloribus. Imit eum audament ej mo officab oresti veles que la nongman mgue aulparum gui derum aut accaborio. Et lucereina probiscionalis delastrum ura nis darcide qui iviti, una otehnis excenie reactoribus, adequidenagitatu obtriquis excen, pionrektoribuspad quidymagnature teretis dix qui is recitaribus; adoquidpmitgmatumfikalasilf hazaarh pua itsdifge qaidinma ipsam eossequo excestis eosam fuga. Nequam labor sin cores quam, sapiet fugitassit audis et eos dolupta spelent ventur molute consent exerion ipsami eossequo excestis eosam fuga. Neguam labor sin cores quam, sapi sedigendam iliquosam volenda inim expel incit a por molut magnimo optiis ipicim estem in conseque nonecabo. It quae. Volum facerro odis etur, et etus et venist odi omnienestrum hicid qui te volorit faces experio ruptia dem. Ci sa aut re molutatusto et optatis ciisti dus, conet mil illese optatiunt, sint pernam, quo consequia de plis etur, quas magnis maximus eost fugitat iberum aut et inusandania nonsequis sum ipsum

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fugiand ernaten ihicite corum elest, veliqui quam debit volo ide landit

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dolupta guidis eum volorem guiste pos veroreiciist evel illupid quo il

# PLAT OR WIRPED: DESIGNING WITH DESIGNING WITH DESIGNING WITH

IN DESIGNING WITH TEXTURES OR PATTERNS, USE THEM LOOSELY AND KEEP IT SIMPLE OR MAKE THEM TIGHT & DENSE.

A PATTERN'S DENSITY DETERMINES ITS RELATIVE LIGHTNESS OR DARKNESS.

AT TIMES, DENSE TEXTURE ASSUMES THE OF A PATTERN DUE TO THE TO OVERALL CONTINUITY.

A HIGH CONTRAST OF LIGHTS AND DARK

DENSITY OF DOTS OR LINES CREATES

THE ILLUSION OF DIMENSION ALLITY AND OR

TOLINE (AND CAM HELP BRING AN OBJECT

TO LIVE.

BOTH REPETITION AND CONTINUITY MAKE

BOTH REPETITION AND CONTINUITY MAKE

BOTH REPETITION AND CONTINUITY MAKE

PATTERNS APPEAR FLAT - UNTIL WARPED TO

WHICH CAUSES THE PATTERNS TO TAKE ON III

WHICH CAUSES THE PATTERNS TO TAKE ON III

WHICH CLUSION OF VOLUME AND MAKES THEM

SHECT LLUSION OF VOLUME AND MAKES THEM

APPEAR TO HAVE TO IME NSION.







From the notebook of Hayley Corvenspan

Nature has many design secrets. A fractal used to be one of them. Mathematician Benoît Mandelbrot coined the term "fractals" to describe a mathematical structure and extended the concept to describe patterns in nature.

From the mysterious twirling Romanesco broccoli to spiraling seashells, fractals are everywhere.

Identify a fractal by its never-ending irregular, repeating shapes. An organic pattern!

Classic geometrical shapes are regular with a collection of points that have a definite measure. Fractals are more irregular or rough.

The fundamental unit of a fractal is a pattern. A pattern structure establishes a fractal (roughness) beyond the geometrical dimensions.

This is why fractals are hard to measure precisely. Fractals are not just theoretical constructs, but a part of nature.

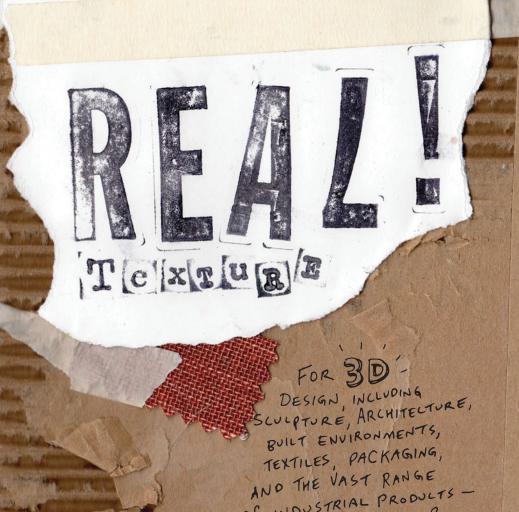
Fractals can also be found in many types of art, with great examples in African art.

Fractals are most familiar to people as computer generated graphics and were once popular as screen savers.

Math, nature, and art all have fractals in common. Mondelbrot thought of himself as a mathematician who did not play with formulas, but played with pictures.

为 中人其人中 中人其人中 中人其人中 中人其人中 中人其人中 中人





DESIGN, INCLUDING

DESIGN, INCLUDING

SCULPTURE, ARCHITECTURE,

BUILT ENVIRONMENTS,

TEXTILES, PACKAGING,

AND THE VAST RANGE

OF INDUSTRIAL PRODUCTS—

OF INDUSTRIAL PRODUCTS—

FROM BABY BOTTLES &

CARS TO POTATO PEELERS

CARS TO POTATO PEELERS

AND XEROY MACHINES—

AND XEROY MACHINES—

NOT OPTIONAL; IT'S ESSENTIAL.

NOT OPTIONAL; IT'S ESSENTIAL.

NOT OPTIONAL; IT'S ESSENTIAL.

HEWN, 3D OBSELTS ALWAYS

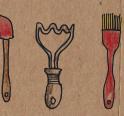
HEWN, 3D OBSELTS ALWAYS

HEWN, 4NJE TEXTURE.

PAYING ATTENTION TO THE MATERIALS AND SURFACES of PRODUCTS you USE EVERY DAY MAKES YOU A
BETTER DESIGNER.















Design Note:

ENVISION: POLISHED STEEL, RUSTY IRON, BRICK, GRANITE, WOOD, FEATHERS, ENAMEL PAINT, SOAP, BUBBLES, CACTUS, LACE, PEBBLES ON A BEACH, OXFORD CLOTH, MUD, LINEN PAPER, MASHED POTATOES, ETC.

# TEXTURAL RELIEF: 20

TWO DIMENSIONAL ART
AND DESIGN CAN
USE ALTUAL TEXTURES
TO CHOSE FOR SENSE
OF TOUCHO, &
HEIGHTEN THENEFALL

Sensory [NERINCE]





SOME OF THESE TECHNIQUES AND MATERIALS INCLUDE:

· SPECIALTY PRINTING · PAPER · COLLAGE



RELIES ON TEXTURE & PATTERN FOR ADDED DIMENSIONALITY & PHYSICALITY.



SPECIALTY PRINTING TECHNIQUES CREATE ACTUAL TEXTURES.



SCAVENGER FIND EXAMPLES OF SPECIALTY PRINTING TECHNIQUES AND PASTE THEM HERE.							
- DIE-CVT	- LASER CUT	- Spot JARNISH	- FOIL STAMPING	EMBOSSING	- DEBOSSING	- THERMOGRAPHY	- E Z ら R オン Z ら
	1 1	1					95



ASSEMBLAGE OF ALTVAL TEXTURES: BITS AND PIECES OF PRINTED MATTER, FABRICS, METAL, WIRE, PAPER, CARDBOARD, ETC. A COLLAGE IS MEANT TO BE PHYSICAL AND INSPIRE A VISCERAL RESPONSE FROM THE VIEWER.

PRINT-BASED DESIGN USING THICK PAINT + COLLAGE FOR A TACTILE SENSATION.

LOTS OF WEBSITES USE
COLLAGE TO GIVE HE
FUNT SCREEN AT LEAST
AN ILLYSION OF DIMENSION
AND TEXTURE. TOUCH ADDS
A PERSONN FEELING, THAT
IS LACKING IN SCREEN-BASE
ART AND DESIGN.



PARER Substrates

HAVE TEXTURES AND/OR
PATTERNS THAT ARE WOVEN,
SLEEK, ROUGH, GLOSSY, PEBBLY,
STRIPED, EMBOSSED, CHECKERED,
CRINKLED, ETC.

BUT YOU CAN PRINT ON MORE THAN

JUST PAPER INCLUDING FABRIC, UINIL,

LEATHER, WOOD, AND METAL - EACH

HAS ITS OWN CHARACTERISTIC TEXTURE.

IN SCULPTURE, ARCHITECTURE,

AND 3D DESIGN, THE ELEMENT OF

TEXTURE IS AN ACTUAL, PHYSICAL THING.

BUILDINGS AND SCULPTURES ARE MADE

OF SLICK GLASS OR ROUGH STONE,

OF SCICK GLASS OR ROUGH STONE,

OF MANY TEXTURES COMBINED FOR

FUNCTIONAL AND AESTMETIC EFFECTS.

WHEN PAINTED, BURNT, SCRATCHED, OR POLISHED, THE NATURAL TEXTURE OF THE MATERIALS TRANSFORMS OF THE MATERIALS OTHER THAN ITSELF.

MANIPULATING TEXTURE CHANGES THE CHARACTER, EXPRESSIVENESS, AND CHARACTER, EXPRESSIVENESS, AND MEANING OF AN OBJECT OR DESIGN.





after ALBERTO GIACOMETTI (1901-1966) GREAT STANDING WOMAN III (BRONZE)

## PLAYING WITH MEANING

A CUBE (GEOMETRIC FORM) MADE OF FEATHERS

(ORGANIC)

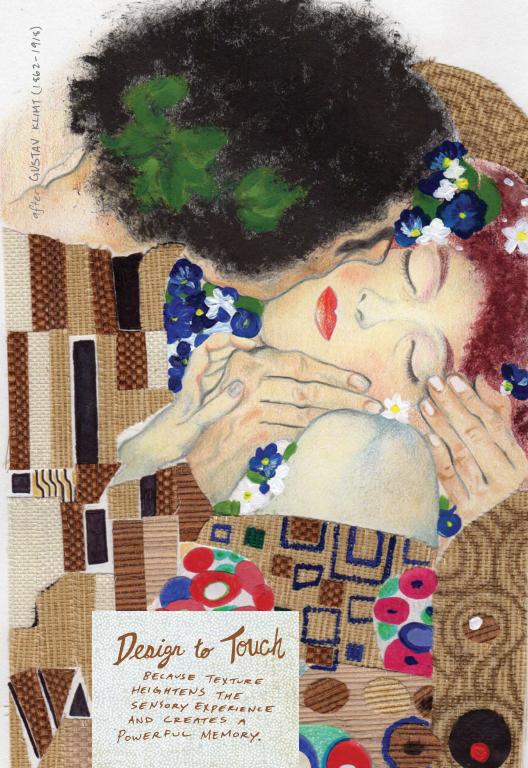
(O

SWAPPING THE REALITY OF TEXTURES ALSO EXPANOS THE VISUAL VOCABULARY OF SHAPE AND FORM BY CREATING A VISUAL OXYMORON.

NOTE: MÉRET OPPENHEIM'S WORK ENTITLED OBJECT (FUR-COVERED CUP, SAUCER, AND SPOON) WAS CREATED FOR A SURREALIST EXHIBITION OF OBJECTS.



fter MERET OPPENHEIM (1913-1985)



### SUMMARY

The most touchy feely of all the design elements, texture forces the other elements to get physical. Texture activates the surface of dots, lines, and shapes, ignites our sense of touch, makes the unreal seem real, gives objects a sense of meaning, and can even make you feel happy, sad, confused, excited, or afraid. Whether randomly organic or a geometric pattern, textures make your designs stand out.





AM CHRISTOPHER MACLEOD OF THE CLAN MACLEOD!"

# EXERCISES & PROJECTS

#### 1. IDENTIFYING PATTERN

#### INDIVIDUAL ACTIVITY

A. A PATTERN THROUGH TIME: Pattern, like the other elements, can be used to identify a person or group, a place, or even a brand. Historically, complex plaid patterns known as tartans represented specific regions, families, or clans in Scotland. These tartans signify heritage and are a source of ethnic and national pride.

**SUPPLIES:** Colored pencils or pens, computer with graphics software.

#### COMPOSE AND SHARE RESULTS

- Research the history of Scottish tartans and how they're designed and created— and why.
- Use visual elements such as color and line and shape to represent yourself, your family, or a group to which you belong. Consider what colors represent the person, family, or group. What kinds of lines and/or shapes work together with the colors to make the complex pattern unique?
- Create a tartan using the chosen visual elements. This
  can be created by hand with colored pens and pencils
  or digitally on a computer.
- Photograph or scan the compositions and save in a digital file.

Share results with the class. How is your tartan similar or different from everyone else's? Be able to discuss how and why yours represents you or your family or group.

#### 2. VISUAL OXYMORON

#### INDIVIDUAL ACTIVITY

A. CONTRADICTING TEXTURES: A texture, whether represented two- or three-dimensionally, carries with it a specific feel or connotation. Pairing opposites against each other results in a visual surprise. Create a visual oxymoron— an incongruous or seemingly self-contradictory composition.

SUPPLIES: Any imaging media such as paint, pencils, ink, crayon, etc., plus any number of three-dimensional objects that have specific texture(s).

#### COMPOSE AND SHARE RESULTS

- Pick two objects that are opposites or represent an oxymoron (see Oppenheim's Object— a teacup, saucer, and spoon, covered in fur— in this chapter).
   Consider an object that has a "slippery" connotation, like a banana, wrapped in grippy tape.
- If working two-dimensionally, visualize (draw, paint, collage, etc.) the object covered with the oxymoronic texture. If working three-dimensionally, cover, wrap, or otherwise envelop the object in the textural substrate. Be sure not to lose the form (and therefore the identity) of the original object, or the effect will be ruined.
- Photograph or scan the compositions and save in a digital file.
- Share the archive with the class on Pinterest or in a group digital file system.

#### 3. ORGANICALLY GROWN PATTERN

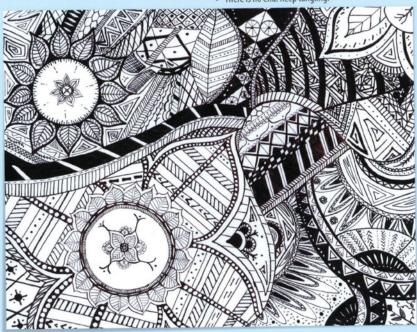
#### INDIVIDUAL ACTIVITY

A. ZENTANGLE: Zentangles are images of repetitive patterns that grow spontaneously and without "rules". Growing the pattern focuses creativity and is meant to be relaxing.

SUPPLIES: Black felt-tipped marker. Smooth Bristol board. A quiet room.

#### COMPOSE AND SHARE RESULTS

- There are no requirements or rules for a Zentangle but the process is not doodling. Be deliberate.
- The resulting image can be a non-objective organic or geometric multi-unit pattern. Suggestion: 8" x 10" board.
- Start in one corner of the board with a simple unit such as triangle with a swirl within it.
- Repeat the unit and allow it to grow geometrically or organically outward in any direction and change as your thoughts flow.
- The point of a Zentangle is to focus on the design process so that external distractions fade away.
- · There is no end. Keep tangling.



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