13 Color

Saturday, February 20, 2016 10:51 PM

Today:

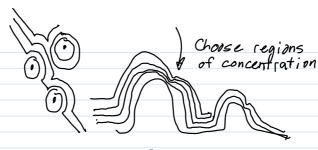
10 minute team time Housekeeping

Schedule

New text resources

Universal aesthetics

topics Color



Doodle Practice

Housekeeping:

3 ITLL lockers available 48" x 54" x 36 " (LxWxH); see Kai Amey; first come first served. Free, open storage in 1B bay along the RIGHT side. Must not block access to projects on the LEFT. I have a placeholder for 1 spot in back corner. Space will fill, take now.

Idea Forge: 9 Lockers available, and shared locked room storage. See Shirley Chessman. Act soon!

Schedule:

Can't do in-class sketching or clay, but can do 5 pm workshops by Kara Priest, artist and art instructor 1 or 2 hrs x 3 sessions? Probably M 3/7, W 3/30, M 4/4

A Faster Horse dinner/movie Weds 3/9, 5 pm, yes? Pizza or subs? When to have team evals? After design review?

Lecture topics coming up:

Universal Aesthetics

20th Century design aesthetics timeline

Case study: The Chair

Chair design will be case study, including Taschen and Phaidon curation, plus more detailed look at Eames/Herman Miller lounge chair



\$4,935.00USD

New text resources in my office library:

Phaidon Design Classics, Volumes 1,2 and 3. London; New York: Phaidon Press, 2006.

The three-volume book is an authoritative collection of design classics, which will include 999 industrially manufactured products, carefully selected by a group of experts. From cars to furniture, from tableware to cameras, from everyday objects to aeroplanes, this breadth of classic design has never before been collated. These volumes will be the sourcebooks on design from the early 1800's to the present, bringing together patents, prototypes, old advertisements, original drawings, images showing the process of manufacture, as well as rare archival photographs. Over fifty authors ranging from designers to curators, critics, and academics, have contributed with short texts for each objects, providing detailed research and precise information. Each artifact gets 2 pages

Available as an app for iPad, \$15 (hardcopy is \$160)









From <https://www.google.com/search?q=phaidon+design&tbm=isch&tbo=u&source=univ&sa=X&ved= OahUKEwiPnf A25PLAhVELmMKHf7LCyYQ7AkIRA&biw=1010&bih=327>

Taschen, publisher of inexpensive art and design texts. https://www.taschen.com/

TASCHEN. "Design of the 20th Century. TASCHEN Books (Bibliotheca Universalis)." = https://www.taschen.com/pages/en/catalogue/design/all/45407/facts.design of the 20th century.htm. \$20

A-Z plus timeline. 2 page spread per artifact. We will discuss timeline in lecture after universal aesthetics.

TASCHEN. "1000 Chairs. TASCHEN Books (Bibliotheca Universalis)." Accessed February 25, 2016. https://www.taschen.com/pages/en/catalogue/design/all/45416/facts.1000 chairs.htm. \$16.00

Here is a free eBook on details of Arts and Crafts style design. A long recipe/tutorial from 1916: Varnum, William Harrison. *Industrial Arts Design :a Textbook of Practical Methods for Students, Teachers, and Craftsmen /.* Peoria, Ill. :, c1916. http://hdl.handle.net/2027/wu.89057179780.

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Universal Principles of Design (UPDes)

Book and video series, available on Lynda.com (http://www.colorado.edu/lynda)
Many good functional design rules, based on ergonomics, psychology, market research; what do people do when they interact with designs? Text has references that video omits.

And some good aesthetics rules, based on research on human likes/dislikes.

Possible lecture/discussion topics

I will curate, but requests will be taken

20 Aesthetic-Usability Effect

http://www.lynda.com/Higher-Education-

tutorials/Aesthetic-usabilityeffect/193717/436485-4.html

24 Alignment http://www.lynda.com/Higher-Education-

tutorials/Alignment/193717/421223-4.html

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Black effects http://www.lynda.com/Higher-Education-tutorials/Black-effects/193717/436476-4.html 2/22/16

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White effects: White = good, light. Timeless, high-value

Black effects: Black = serious, aggressive, threatening. Timeless, high-value

Red effects

Color physics and notation (not video)

Color

UPDes

Nomenclature

Digital, photoshop

Pantone https://en.wikipedia.org/wiki/Pantone

Additive/subtractive physics

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tutorials/Red-effects/193717/436475-4.html

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226 Similarity 228 Stickiness 230 Storytelling 234 Symmetry

Supernormal stimuli http://www.lynda.com/Higher-Education-tutorials/Supernormal-stimuli/193717/436479-4.html 2/22/16 240 Top-Down Lighting Bias http://www.lynda.com/Higher-Education-tutorials/ 3/22/16

tutorials/Top-Down-Lighting-Bias/193717/426774-4.html

242 Uncanny Valley 248 Veblen Effect 256 Wabi -Sabi

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White effects http://www.lynda.com/Higher-Education-tutorials/White-effects/193717/436477-4.html 2/22/16

Color1

Color

Color is used in design to attract attention, group elements, indicate meaning, and enhance aesthetics.

Color can make designs more visually interesting and aesthetic, and can reinforce the organization and meaning of elements in à design. If applied improperly, however, color can seriously harm the form and function of a design. The following guidelines address common issues regarding the use of color.1

Number of Colors

Use color conservatively. Limit the palette to what the eye can process at one glance (about five colors depending on the complexity of the design). Do not use color as the only means to impart information since a significant portion of the population has limited color vision.

Color Combinations

Achieve aesthetic color combinations by using adjacent colors on the color wheel (analogous), opposing colors on the color wheel (complementary), colors at the corners of a symmetrical polygon circumscribed in the color wheel (triadic and quadratic), or color combinations found in nature. Use warmer colors for foreground elements, and cooler colors for background elements. Light gray is a safe color to use for grouping elements without competing with other colors.

Saturation

Use saturated colors (pure hues) when attracting attention is the priority. Use desaturated colors when performance and efficiency are the priority. Generally, desaturated, bright colors are perceived as friendly and professional; desaturated, dark colors are perceived as serious and professional; and saturated colors are perceived as more exciting and dynamic. Exercise caution when combining saturated colors, as they can visually interfere with one another and increase eye fatigue.

Symbolism

There is no substantive evidence supporting general effects of color on emotion or mood. Similarly, there is no universal symbolism for different colors—different cultures attach different meanings to colors. Therefore, verify the meaning of colors and color combinations for a particular target audience prior to use.2

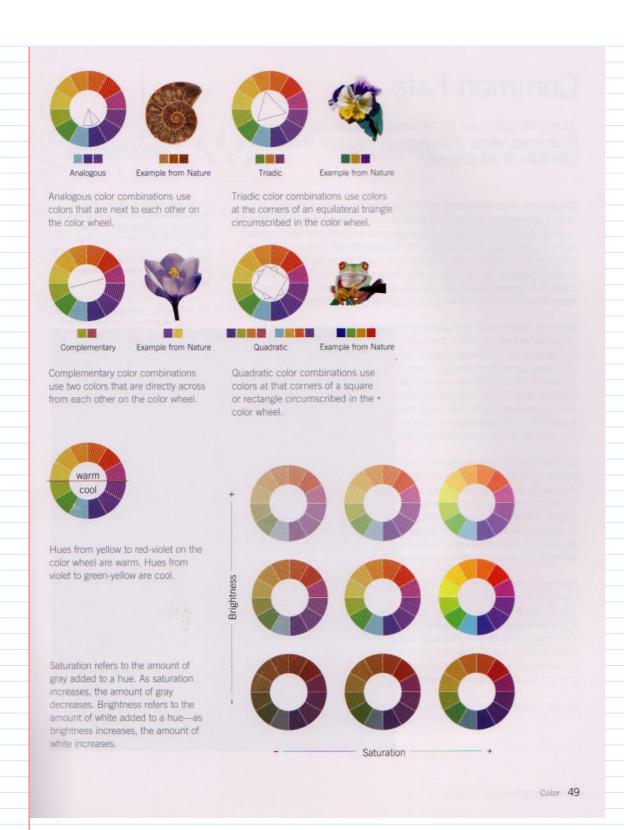
See also Expectation Effect, Highlighting, Interference Effects, Similarity, and Uniform Connectedness.

- A nice treatment of color theory is Interaction of Color by Josef Albers, Yale University Press, 1963. For a more applied treatment, see The Art of Color: The Subjective Experience and Objective Rationale of Color by Johannes Itten, John Wiley & Sons, 1997; and Human-Computer Interaction by Jenny Preece, et al., Addison Wesley, 1994.
- 2 It is reasonable to assume that dark colors will make people sleepy, light colors will make people lively, and irritating colors will make people irritated. Otherwise, the only observable influence of color on behavior is its ability to lead people to repaint walls unnecessarily. For those determined to try to calm drunks and win football games through the application of color, see The Power of Color by Morton Walker, Avery Publishing, 1991.

48 un .ersal Principles of Design

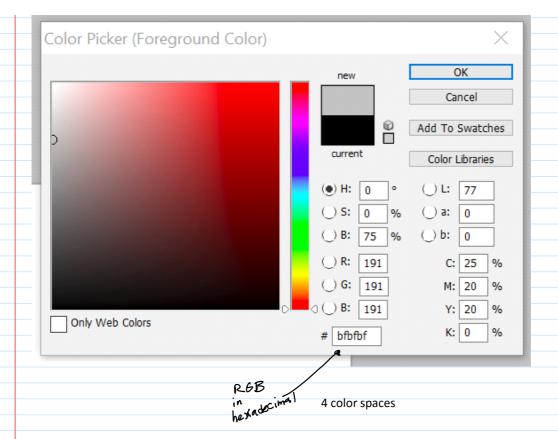


color2



Color Nomenclature

Range of colors that can be produced by a technology = gamut Matching across devices, technologies = color management From Photoshop:

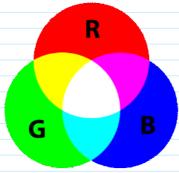


Pantone https://en.wikipedia.org/wiki/Pantone

Another color nomenclature and color management system. Common in design world.

Additive/subtractive color

Additive color = light



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Subtractive color = surfaces; dyes, pigments, inks

