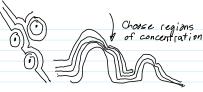
22 Stuff and Color

Saturday, February 20, 2016

Today:

10 minute team time Schedule More text resources Universal aesthetics topics Color



Doodle Practice

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

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, fr om 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&tbm OahUKEwiPnf_A25PLAhVELmMKHf7LCyYQ7AkIRA&biw=1010&bih=327>

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

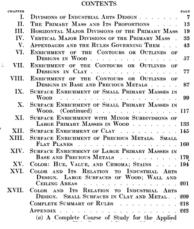
TASCHEN. "Design of the 20th Century. TASCHEN Books (Bibliotheca Universalis)." 20th century.htm. \$20

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.

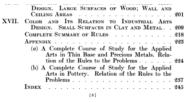
CONTENTS





From Morgan Ulrich Box sketching with close vanishing points crafts/videos/919907748151811/

This is a handy technique if you have fixed vanishing points, fairly close together. And you have a string or rubber band.





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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 164 Most Average Facial Appearance Effect http://www.lynda.com/Higher-Education-174 Operant Conditioning tutorials/Aesthetic-usability-190 Propositional Density effect/193717/436485-4.html 192 Prospect-Refuge 24 Alignment http://www.lynda.com/Higher-Educati V202 Red Effect http://www.lynda.com/Higher-Education- tutorials/Alignment/193717/421223-4.html tutorials/Red-effects/193717/436475-4.html 26 Anthromorphic Form -208 Rule of Thirds 212 Savanna Preference 28 Archetypes 30 Area Alignment 216 Scarcity 32 Attractiveness Bias 218 Self-Similarity 224 Signal-to-Noise Ratio 34 Baby-Face Bias 🛹 Black effects http://www.lynda.com/l 226 Similarity tutorials/Black-effects/193717/43647 .html 2/22/16 228 Stickiness 42 Classical Conditioning 230 Storytelling 46 Cognitive Dissonance 234 Symmetry √ 48 Color ∨ Supernormal stimuli http://www.lynda.com/Higher-Education- 70 Defensible Space tutorials/Supernormal-stimuli/193717/436479-4.html 2/22/16 80 Entry Point 240 Top-Down Lighting Bias http://www.lynda.com/Higher-Education-86 Exposure Effect tutorials/Top-Down-Lighting-Bias/193717/426774-4.html 88 Face-ism Ratio 242 Uncanny Valley 94 Fibonacci Sequence 248 Veblen Effect 108 Framing ⊋56 Wabi -Sabi 114 Golden Ratio 4 258 Waist-to-Hip Ratio 130 Hunter-Nurturer Fixations White effects http://www.lynda.com/Higher-Education- tutorials/White-effects/193717/436477-4.html 2/22/16 156 Mimicry Biophilia Gloss Bias

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Today, some video topics

Supernormal Stimuli: instinctual likings/ or dislikes; responses.

Examples from students:

Red Blue and Yellow - draw eyes, attractive

Shiny; always looking for water (Gloss bias, another UPS video)

Orthogonal shapes, sharp angles make humans anxious (more on this later)

Musical notes: Pentatonic scale, equal temperment. Humans like hearing frequencies

with rational relationships like perfect 3rds and 5ths.

Why aren't all products black? Kira's question

May not match sense of identity; aggressive, authority, threatening Other colors can create a tiered pricing structure for broader marketing

Matt not great in black. Might not make best contrast

Need other colors for contrast

Doesn't allow full range of expression

Want to portray more fun in a different color. Black is not a loud color

Might not be functional. Outdoor equipment can get lost.

Hard to keep clean (cars, stovetops). Harder to perceive form.

Humans like color too

Water bottles maybe better in blue, other connotations.

Black is the color of death.

Summary

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

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

Red effects

Increases attractiveness of humans, but suppresses high level cognition. Only wear red on weekends, unless negotiating.

Color

Nomenclature

Digital, photoshop

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

Additive/subtractive physics



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 a 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 danalogous), 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

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

- A nice treatment of color theory is Interaction A nice treatment of color theory is interaction of Color by Joed Albers, Yale University Press, 1963. For a more applied treatment, see The Act of Color. The Subjective Experience and Objective Rationale of Color by Johannes titten, John Wiley & Sons, 1997; and Human-Computer Interaction by Jenny Prosce, et al., Addison Wesley, 1994.
- ⁷ It is reasonable to assume that dark colors will make people sleepy, light colors will make people lively, and imitating colors will make people imitated. 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.

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color2

