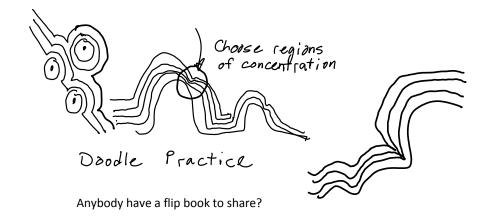
## 22 Stuff and Color

Monday, April 01, 2019 11:51

#### Today:

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



#### Lecture topics coming up:

Universal Aesthetics 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

Current and recent designers:

Martha Stewart

Dyson

Apple: Steve Jobs, Jonny Ive

Elon Musk

David Kelly IDEO/Stanford D-school

Tommy Bahama: clothing

Zaha Hadid: Curved architectures and shoes

Buckminster Fuller Rick Owens: Fashion

Alexander McQueen: Strange fashion

Walt Disney

John Fluevog: Shoes (From Prof. Miller) Temple Grandin: animal handling systems

Philipe Starck Karim Rashid Ross Lovegrove Yves Béhar

Horacio Pagani

Dieter Rams (Braun)

Chris Precht architect Ben Burth audio design for films Virgil Abloh Vitton Shoes Men's design

> Renzo Piano architect

Any others you are interested in? Votes for these? 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 includes 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

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= 0ahUKEwiPnf A25PLAhVELmMKHf7LCyYQ7AkIRA&biw=1010&bih=327>

Taschen, publisher of inexpensive art and design texts. <a href="https://www.taschen.com/">https://www.taschen.com/</a>

## Universal Principles of Design (UPDes)

Book and video series, available on Lynda.com (<a href="http://www.colorado.edu/lynda">http://www.colorado.edu/lynda</a>) 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-Education 202 Red Effect http://www.lynda.com/Higher-Educationtutorials/Alignment/193717/421223-4.html tutorials/Red-effects/193717/436475-4.html 26 Anthromorphic Form 208 Rule of Thirds 28 Archetypes 212 Savanna Preference 30 Area Alignment 216 Scarcity 32 Attractiveness Bias 218 Self-Similarity 34 Baby-Face Bias 224 Signal-to-Noise Ratio Black effects http://www.lynda.com/Higher-Education-226 Similarity tutorials/Black-effects/193717/436476 4.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 <a href="http://www.lynda.com/Higher-Education-">http://www.lynda.com/Higher-Education-</a> tutorials/Top-Down-Lighting-Bias/193717/426774-4.html 86 Exposure Effect 88 Face-ism Ratio 242 Uncanny Valley 248 Veblen Effect 94 Fibonacci Sequence -256 Wabi -Sabi 108 Framing 114 Golden Ratio 4 258 Waist-to-Hip Ratio 130 Hunter-Nurturer Fixations White effects http://www.lynda.com/Higher-Educationtutorials/White-effects/193717/436477-4.html 2/22/16 156 Mimicry 36 Biophilia **Gloss Bias** 

**√**62 Contour Rias



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## Today, some video topics

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

Isn't always functional; heat absorption, tracing transparency
Black is too common; wear a color to stand out
If everything was black, would lose dominance, high value perception
Colors can affect other moods, emotions
Black is depressing
Not always practical, could add weight
Don't always want to signal power, aggression
Lack of contrast is not appealing
Hard to photograph
Signals unapproachability
Hard to see in the dark

#### From last year:

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 <a href="https://en.wikipedia.org/wiki/Pantone">https://en.wikipedia.org/wiki/Pantone</a>

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.<sup>1</sup>

#### 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.<sup>2</sup>

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

## Livingstone, Margaret, and David Hubel. Vision and Art: The Biology of Seeing. Reprint edition. Abrams, 2008.

- 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.
- 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 or .ersal Principles of Design

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