

## ***How Color Works: Color Theory in the Twenty-First Century***

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### **Chapter Three: Sources of Color**

#### *Chapter Summary*

This chapter covers histories of various pigments, from what they are derived, and how they become different colorants dependent on their mode of manufacture. The development of chemistry and the invention of industrial synthetics are highlighted as both had a significant impact on the available colorants we know today. The chapter also discusses color in light-based media—photography, moving image, digital technology, and atmospheric effects.

#### *Suggested Projects*

This informational chapter has no suggested activities.

#### *Recommended Links for Chapter Three: Color Sources*

3.3: Photograph of YinMn Blue. Courtesy Mas Subramanian. Oregon State University.

Link: <http://chemistry.oregonstate.edu/content/story-yinmn-blue>

3.4: *Standing Hippopotamus*, ca. 1961–1878 BCE, Faience, 20 x 7.5 x 11.2 cm. From Egypt, Middle Egypt, Meir (Mir), Tomb B no. 3 of the nomarch Senbi II, pit 1 (steward Senbi). Khashaba excavations, 1910. Metropolitan Museum of Art. Gift of Edward S. Harkness. Art Resource, NY.

Link: <http://www.metmuseum.org/art/collection/search/544227>

3.5: Sir William Perkin's original mauve dye and shawl, and original stoppered bottle of mauveine dye, 1856. 10307477 Science Museum/Science & Society Picture Library.

Link: <https://www.chemheritage.org/historical-profile/william-henry-perkin>

3.6: Brea Souders, *Test Tubes 2*, archival pigment print, 20 x 16 inches, 2015 © Brea Souders, courtesy of Bruce Silverstein Gallery, NY.

Link: <http://www.breasouders.com/>

3.7: Poster, *Specimen*, 2008; Designed by Fanette Mellier; France; offset lithograph on paper; 175 x 118.6 cm (5 ft. 8 7/8 in. x 46 11/16 in.) (2013–18–1 verso). Photo: Matt Flynn © Smithsonian Institution. Cooper Hewitt, Smithsonian Design Museum, New York.

Link: <https://fanettemellier.com/en/>

3.8: Dushko Petrovich, *Rainbow Flower*, 2008, watercolor on paper, 7 x 10," Courtesy of the artist.

Link: <http://dushkopetrovich.com/>

3.9: Sergeĭ Mikhaĭlovich Prokudin Gorskii, *Group of workers harvesting tea. Greek women*. (Taken between 1905 and 1915. Digital color composite from digital file from glass negative). Courtesy the Library of Congress.

Link: <http://www.loc.gov/pictures/collection/prok/>

3.10 László Moholy-Nagy, *Study with pins and ribbons*, 1937–1938. Color print, assembly (Vivex) process. 34.9 x 26.5 cm. Courtesy of George Eastman Museum. © 2016 Artists Rights

Society (ARS), New York / VG Bild-Kunst, Bonn.

Link: <https://www.guggenheim.org/artwork/artist/laszlo-moholy-nagy>

3.11: William Eggleston, from the *Los Alamos* series, 1974. Photograph. © Eggleston Artistic Trust, used with permission.

Link: <http://www.egglestontrust.com/>

3.12: John Opera, *Blinds I*, 2014. Cyanotype on stretched linen. 48 x 34". Private collection. Courtesy of the artist.

Link: <http://johnopera.com/>

3.13: Len Lye, *Stills Collection: Rainbow Dance*, 1936. Ref. No. S2784. Stills Collection, Ngā Taonga Sound & Vision. Courtesy of the Len Lye Foundation and the British Postal Museum & Archive. From material preserved and made available by Ngā Taonga Sound & Vision.

Link: <http://www.lenlyefoundation.com/>

3.14 Tauba Auerbach, *RGB Colorspace Atlas*, 2011. Digital offset print on paper, case bound book, airbrushed cloth cover and page edges, 8 x 8 x 8 inches each (20.3 x 20.3 x 20.3 cm), Binding co-designed by Daniel E. Kelm and Tauba Auerbach. The books were bound by Daniel E. Kelm assisted by Leah Hughes at the Wide Awake Garage. Set of 3, Edition of 3, 2 APs, 2 Exhibition Copies, 1 Binder's Copy. Credit: © Tauba Auerbach. Courtesy Paula Cooper Gallery, New York. Photo: Vegard Kleven.

Link: <http://www.taubaauerbach.com/>

3.15: Cindy Sherman, *Untitled #424*, 2004, color photograph, 137.9 x 140.2 cm. Courtesy of the artist and Metro Pictures, New York.

Link: <https://www.moma.org/interactives/exhibitions/2012/cindysherman/>

3.16: Tony Feher, *Come Out and Play Stephen Jay*, 2013, painter's tape on window, 96 x 96 inches. Installation view: deCordova Sculpture Park and Museum, Lincoln, MA, 2013. Photo: Stewart Clemens. © Tony Feher, courtesy of the artist; Anthony Meier Fine Arts, San Francisco; and Sikkema Jenkins & Co., New York.

Link: <http://www.sikkemajenkinsco.com/index.php?v=artist&artist=510d479db6ee0>