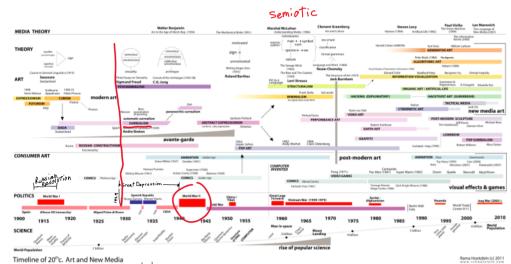
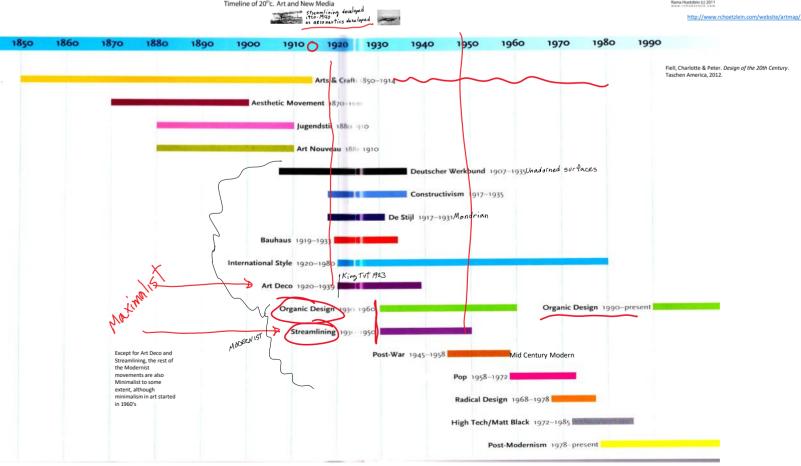
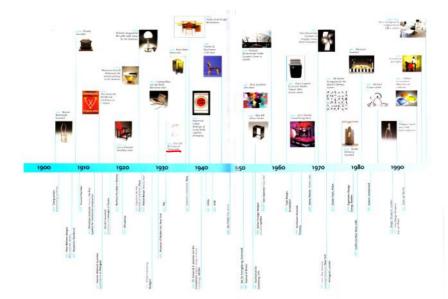
18 Organic Design - Streamlining - Mid-Century Modern, Pop Art Monday, March 4, 2024 2:45 PM TODAY Admin Presentations Organic Design Streamlining Drawing: shade and shadow in perspective Admin Too many posts have no comments. Would you rather a) Comment on 3 posts Ocomment on 9 posts with no comments c) Comment on the first post on the list, and then one of your choice d) Other suggestions?

Presentation
Tim Hellweg Typography







Organic Design 1930-1960, revived 1990 - present

Organic Design 1930-1930, retrived 1930 - present Humanized design. Holistic approach: Organic architecture is a philosophy of architecture which promotes harmony between human habitation and the natural world through design approaches so sympathetic and well integrated with its site, that buildings, furnishings, and surroundings become part of a unified, interrelated composition.



Check out. 99 % invisible

https://99percentinvisible.org/episode/usonia/

Also Charles and Ray Eames: unity of structural, material, functional design More on them when we do Chairs

https://www.fastcompany.com/3055758/tracing-the-long-controversial-history-of-organic-design: MOMA show in 1941: Winner got their piece mass produced. Prior, organic design was natural materials, made with Arts and Crafts decidation. Often curved forms but not always (think Art Deco). After 1941, crafts portion was demoted.

Other Organic design furniture



Led to Biomorphism . Biomimetics, in robotics today

Unlike Organic Design, which is informed by nature and attempts to capture its abstract essence, Biomorphism copies and often distorts forms found in the natural world for purely decorative purposes. From Fiell Design of the 20th Century

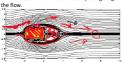
Biomorphism is an <u>art movement</u> that began in the 20th century. It models artistic design elements on <u>naturally occurring patterns</u> or shapes reminiscent of nature and living organisms. Taken to its extreme it attempts to force naturally occurring shapes onto functional devices.



Kidney shaped pools; kitchy 1950's appearances.
Why is this attractive? Contour Blas - part of Universal Principles of Design, (UPD) coming up after history.

Streamlining 1930-1950

Streamlines in a flow are defined by being tangent to the flow field. Streamlines show the direction of



http://www.ams.sunysb.edu/~dyu/album/node3.html

aspect ratios = 2. When an object follows the contours of the flow streamlines, drag is reduced (form drag, not viscous . This is 'streamlining' the object





 $aspect\ ratios=2.$ When an object follows the contours of the flow streamlines, drag is reduced (form drag, not viscous



This was discovered as aeronautics was developed, WWI to WWII. It percolated into the popular culture.

Design in a Nutshell, from the British Open University: American Industrial Design. http://www2.open.ac.uk/openlearn/design_nutshell/index.php#



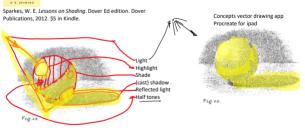


Two movies with great 1950's aesthetics:
Kitchen Stories, a sweet film set in Norway
The Shape of Water, has excellent grungy post-WWII green industrial equipment.



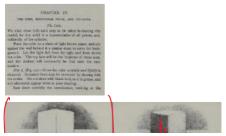
Shading Review

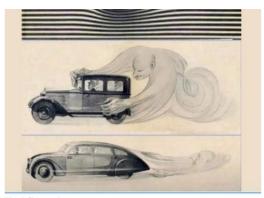




Shading and Shadow of Cubes

To make a cube to use as a model, try this origami: https://www.youtube.com/watch?v=0oMf8(Dekys
I like these instructions by Jo Nakashima. There is silence after the brief intro, and he uses an intuitive notation showing

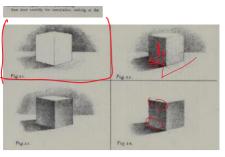


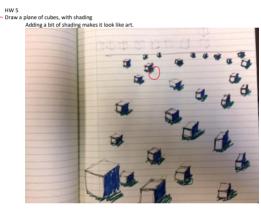


Historic Photographs February 1 at 2:11 PM · 🚱

Car manufacturer Tatra explaining aerodynamics (1934) in a simple way for anyone to understand.

 $\label{thm:conditional} \mbox{(Image originally extracted from Tatra T77 brochure. Photo credit: Tatra - The Legacy of Hans Ledwinka).}$





Shadow in 2 point perspective
Three levels of rigor:

1) Assume diffuse light, and shade undersides. Guess at shadow outline, fade edges of shadow.
2) Assume sunlight, parallel light. Draw parallel lines from each corner, guess at intersection with ground plane (Sketching: The Basics method). Violates 2 point perspective, however.

Keyshot \$\$?

