

Digital Tools and Uses Set

coordinated by
Imad Saleh

Volume 3

The Image-Interface

*Graphical Supports for
Visual Information*

Everardo Reyes-Garcia

Color section

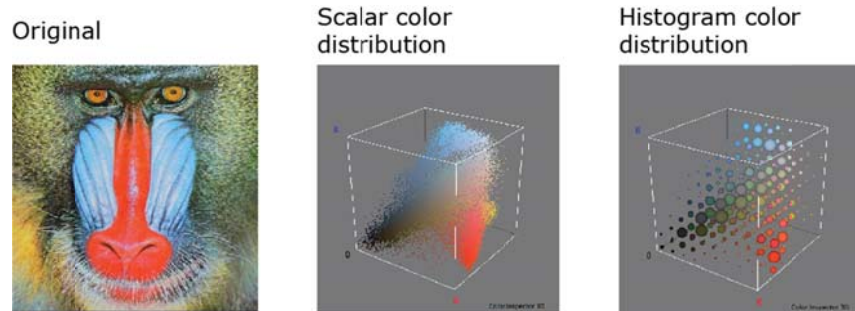


Figure 2.7. Color segmentation. Images were produced with Color Inspector 3D for ImageJ

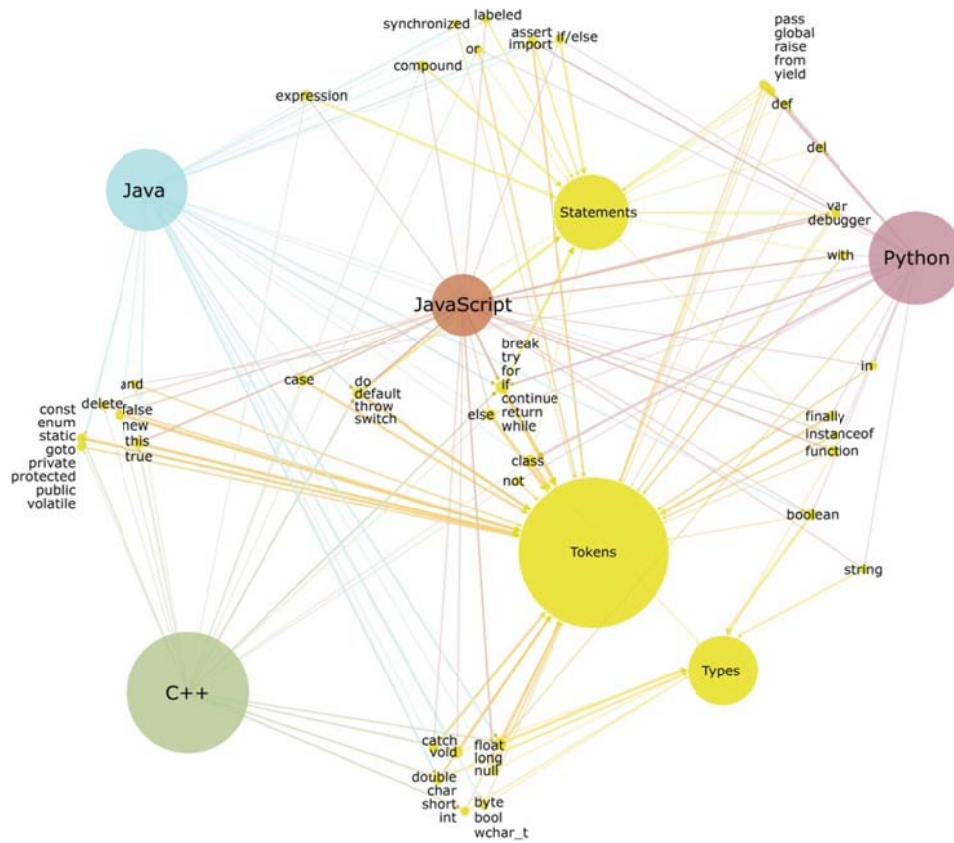


Figure 2.8. Network graph of main tokens, statements and types in Java, Python, C++ and JavaScript programming languages

1977, SuperPaint



1986, Trillium

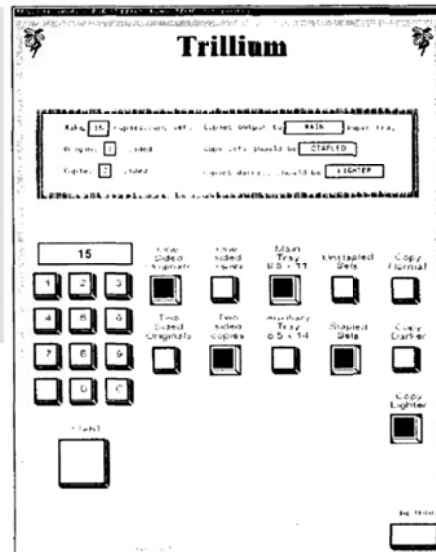


Figure 3.2. SuperPaint and Trillium interfaces

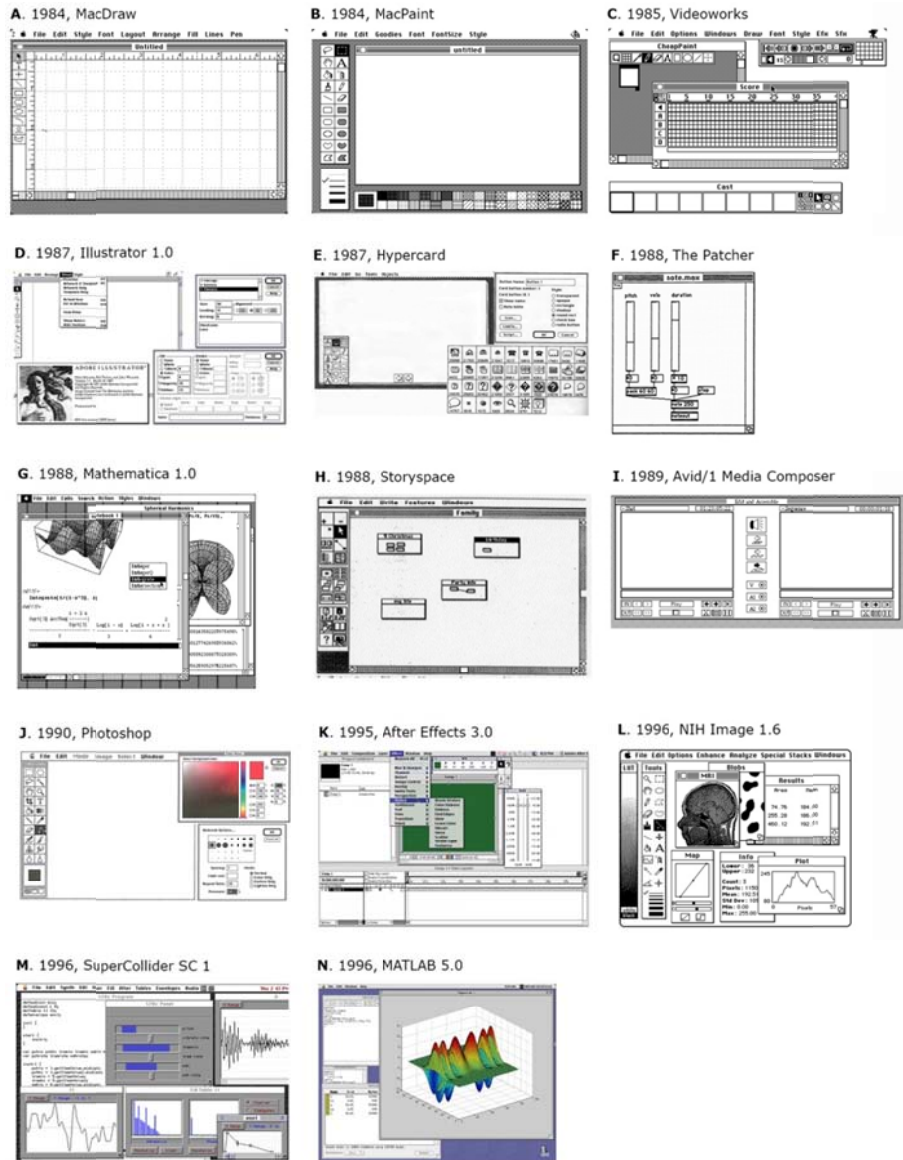
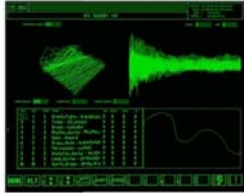


Figure 3.4. Classic Mac OS interfaces

A. 1979, Fairlight CMI (2011)



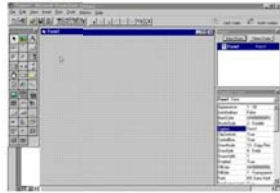
B. 1985, AutoCad 2.1



C. 1989, Word 1.1



D. 1995, Visual Basic 4



E. 1995, Mosaic 2.0



F. 1996, FutureSplash



G. 1998, Dreamweaver 2



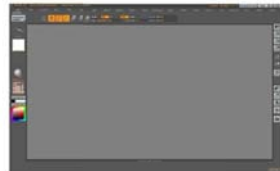
H. 1998, Maya 1.0



I. 1998, Rhinoceros 1.0



J. 2004, ZBrush 3.1



K. 2008, Nuke 5.1v2

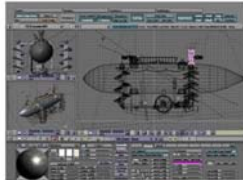


L. 2008, Grasshopper 0.3

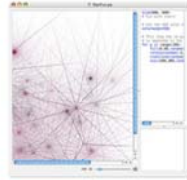


Figure 3.5. Windows 95, 98, XP interfaces

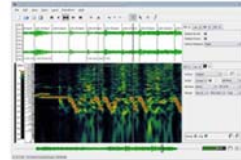
A. 2003, Blender 1.76



B. 2004, NodeBox 1.9.5



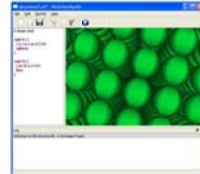
C. 2006, Sonic Visualiser 1.0



D. 2007, Context Free 2.1



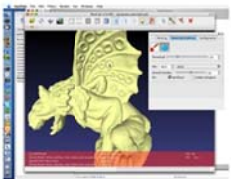
E. 2007, Structure Synth 0.5



F. 2008, Processing 1.0



G. 2008, Meshlab 1.0



H. 2008, CodeCity 1.1



I. 2009, Gephi 0.6



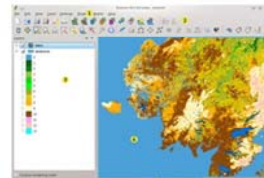
J. 2010, Refine 2.0



K. 2011, RStudio 0.92



L. 2012, QGIS 1.8



M. 2014, Twine 1.4.2



N. 2014, ReKall 1.0



O. 2015, Atom 1.0



Figure 3.6. Free software interfaces

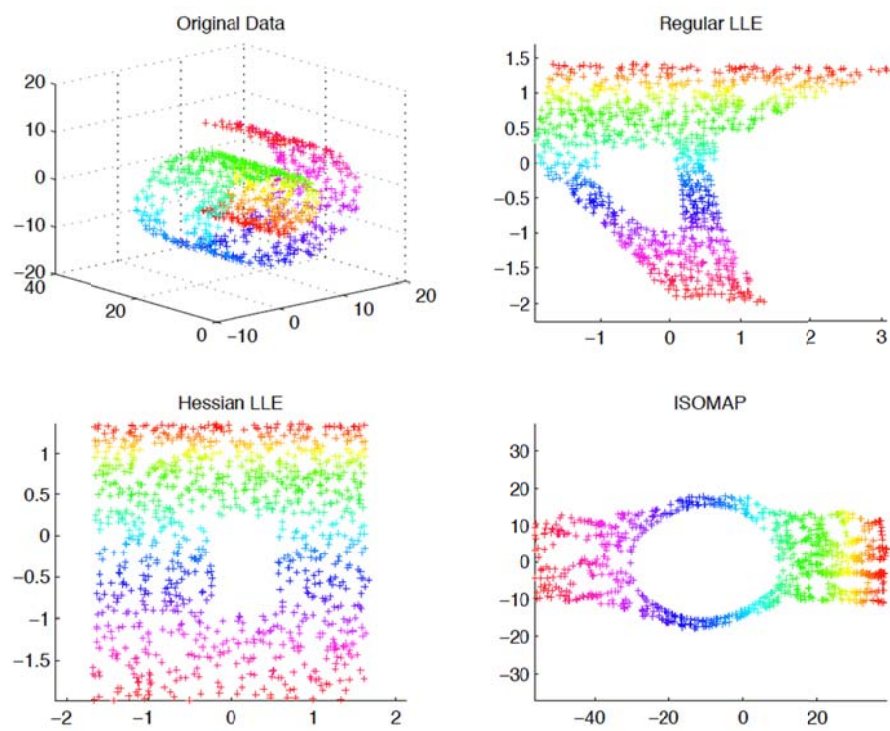


Figure 4.2. Geometrical representations of dimensionality reduction [DON 03]

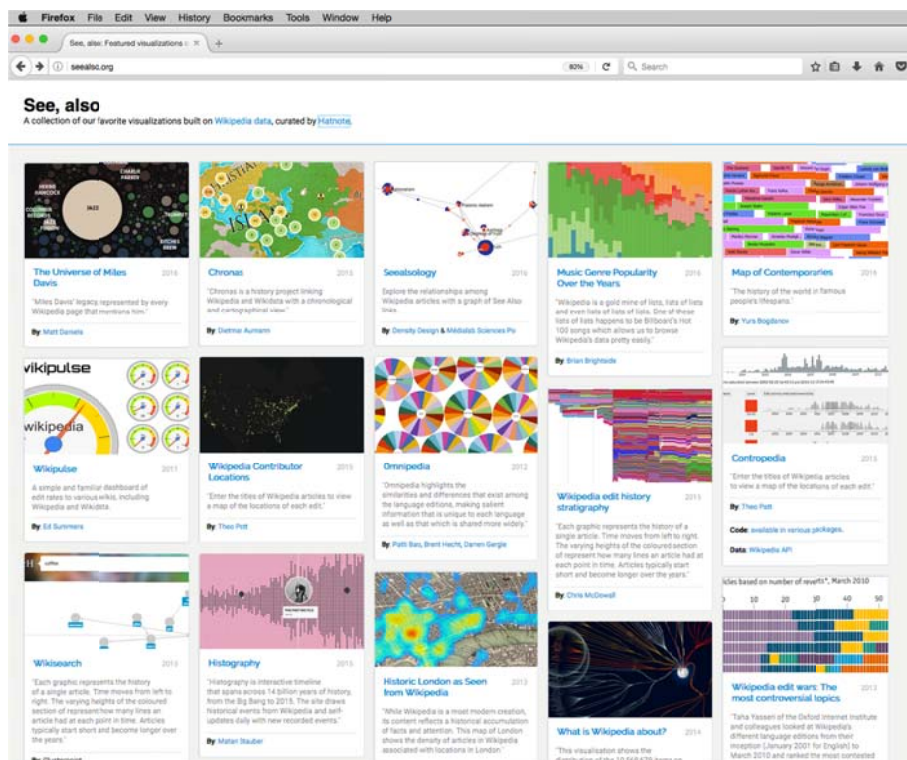


Figure 4.9. *seealso.org*. A volunteer-run design studio created in 2012 that curates data visualizations made with Wikipedia data

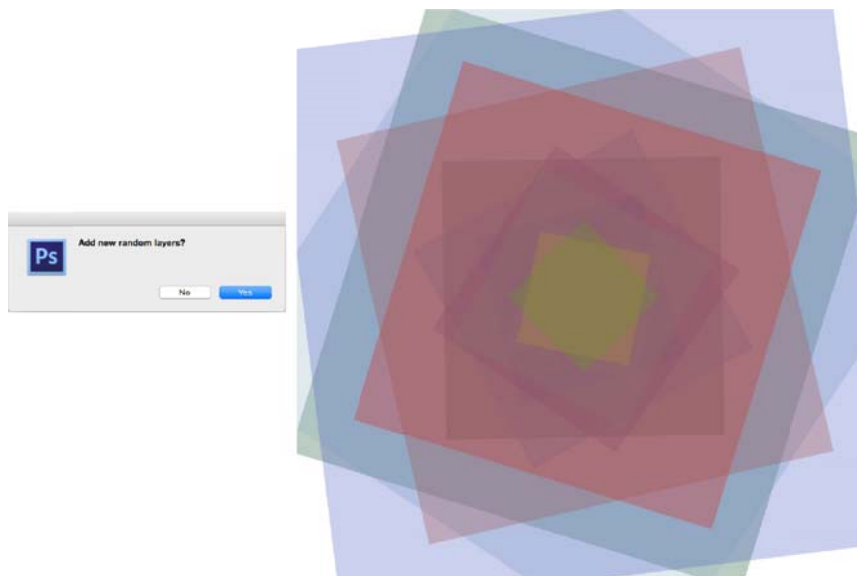


Figure 5.1. *Generated image with Photoshop using JavaScript*

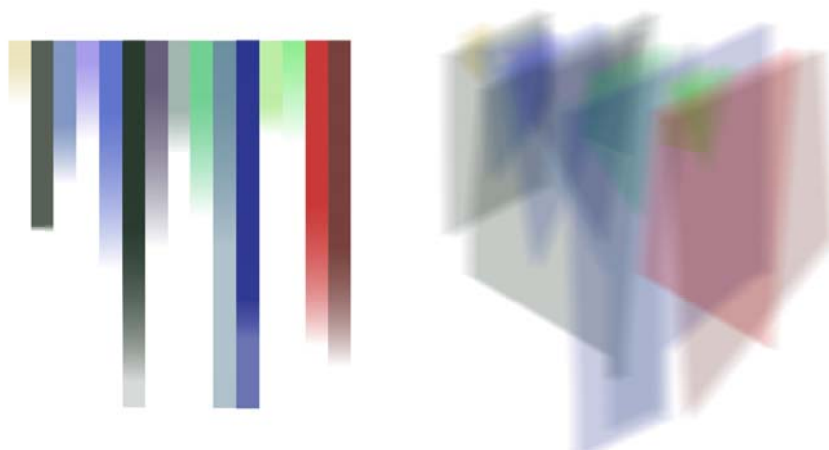


Figure 5.2. *Orthogonal views of the generated layers*

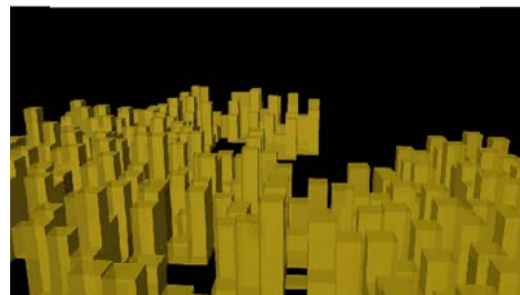
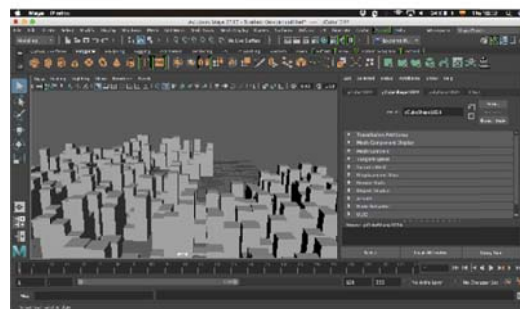
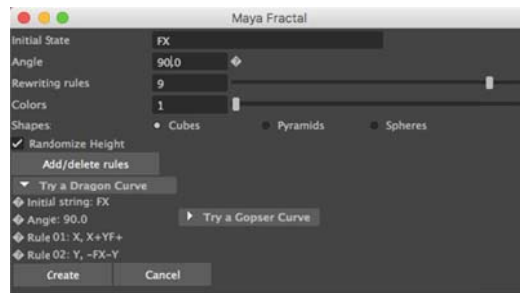


Figure 5.3. Generated model using Python with Maya

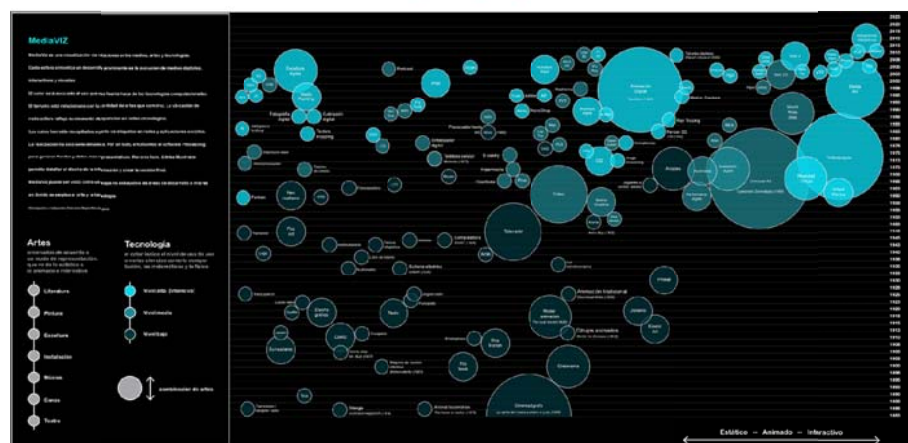
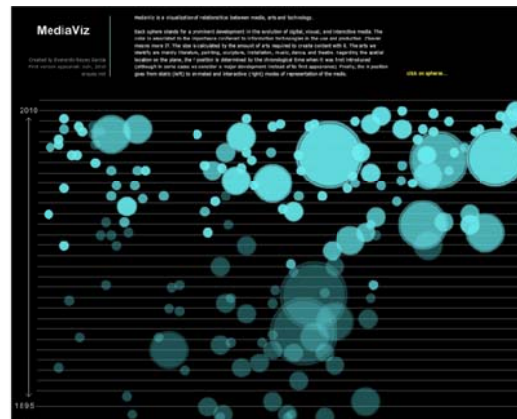


Figure 5.4. MediaViz, 2010. Screenshot of Flash movie and static image

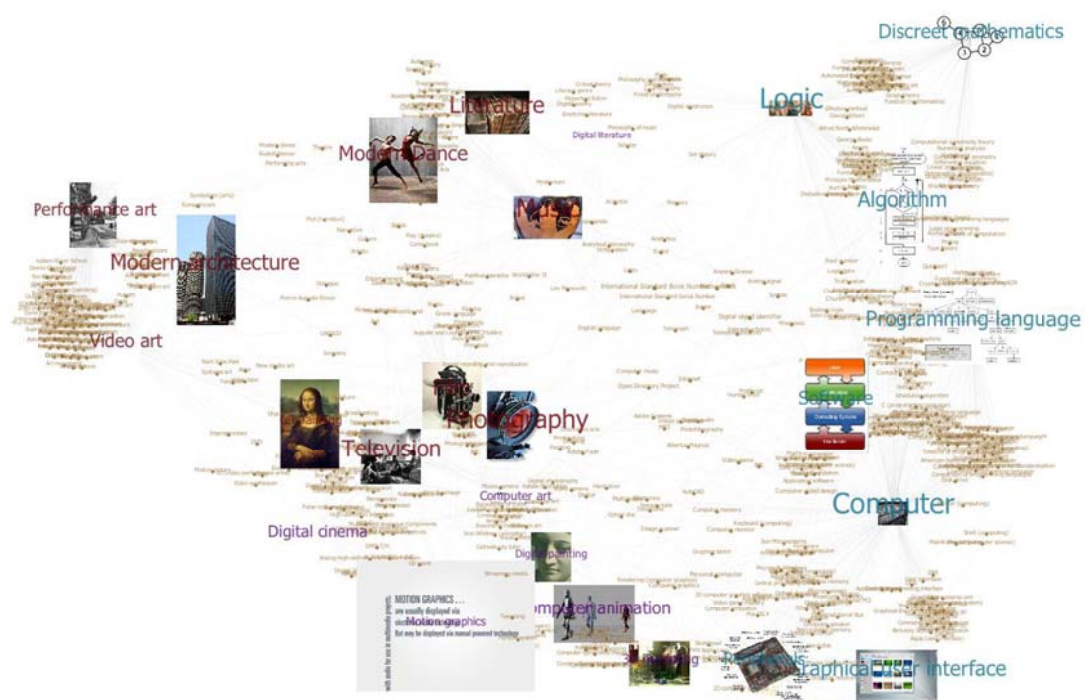


Figure 5.5. Map of digital arts. 53330 nodes extracted from Wikipedia

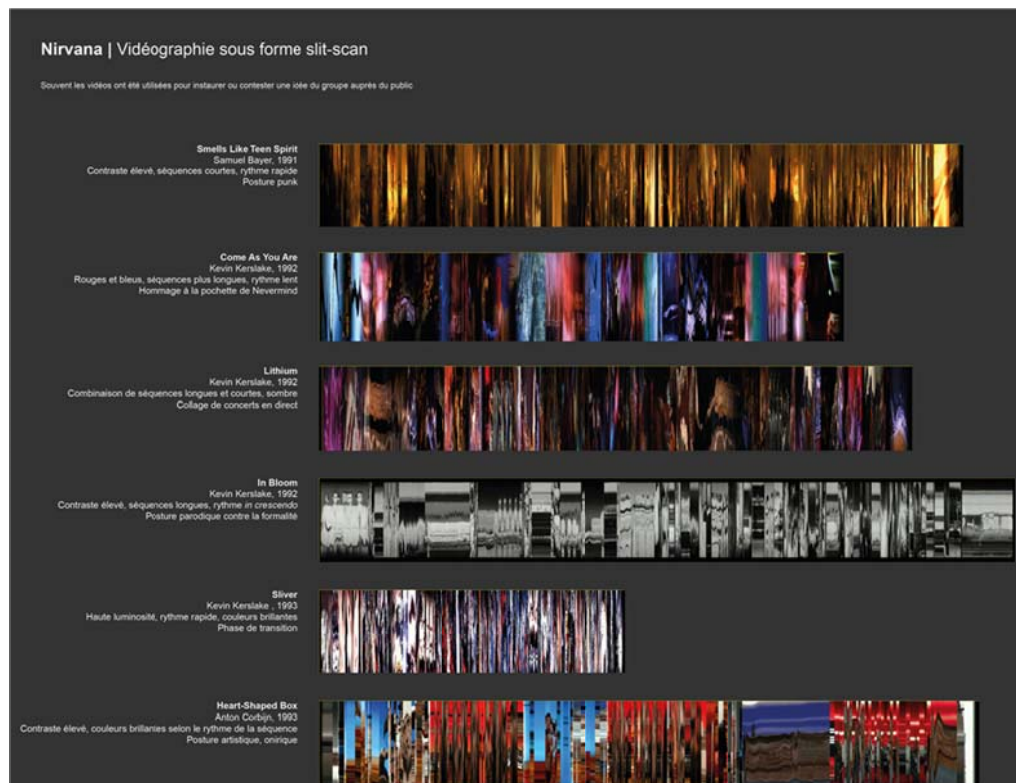


Figure 5.6. Visualization of Nirvana videos

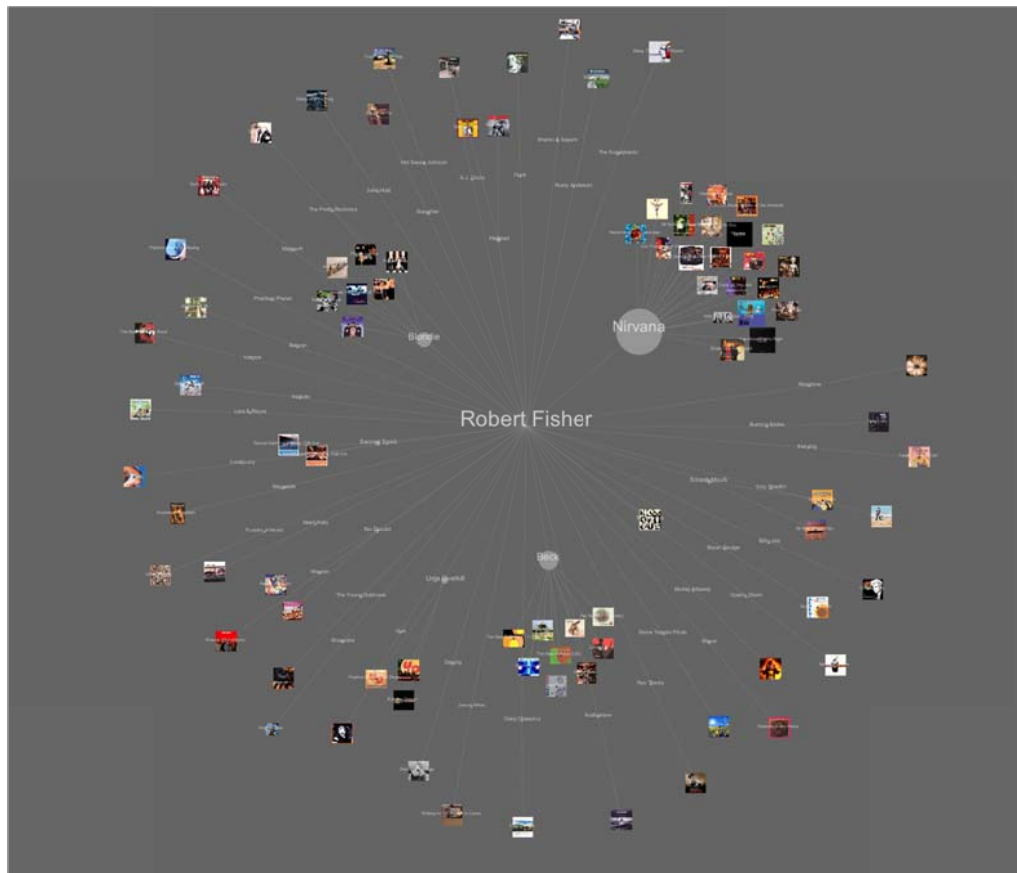


Figure 5.7. Network media visualization of Robert Fisher

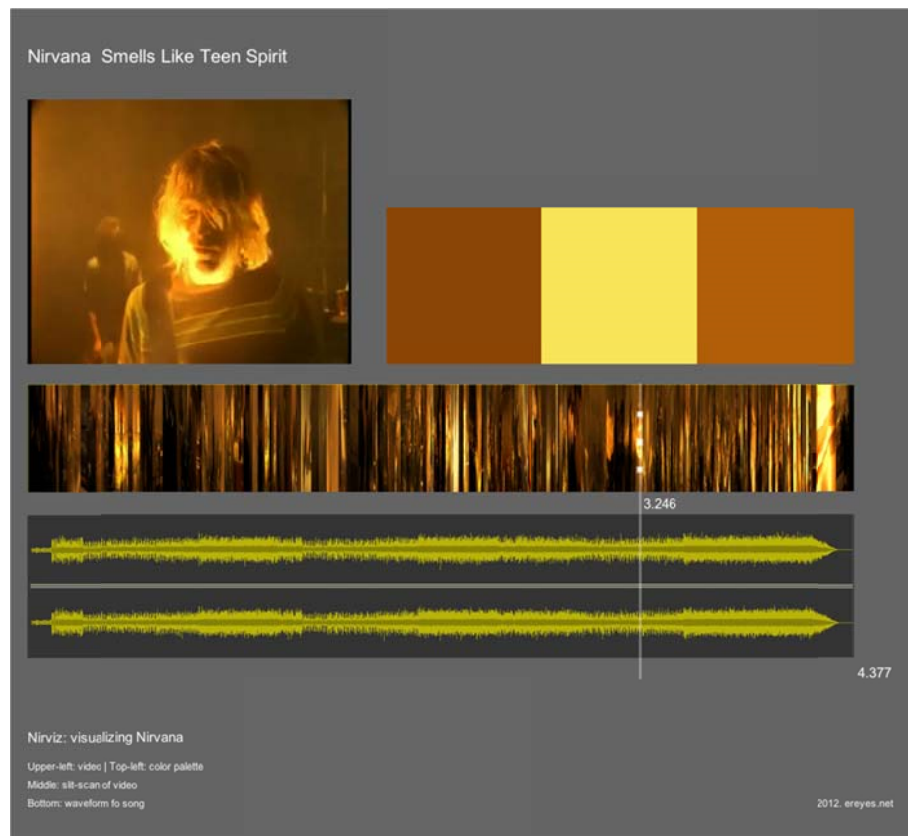


Figure 5.8. The NirViz app interface

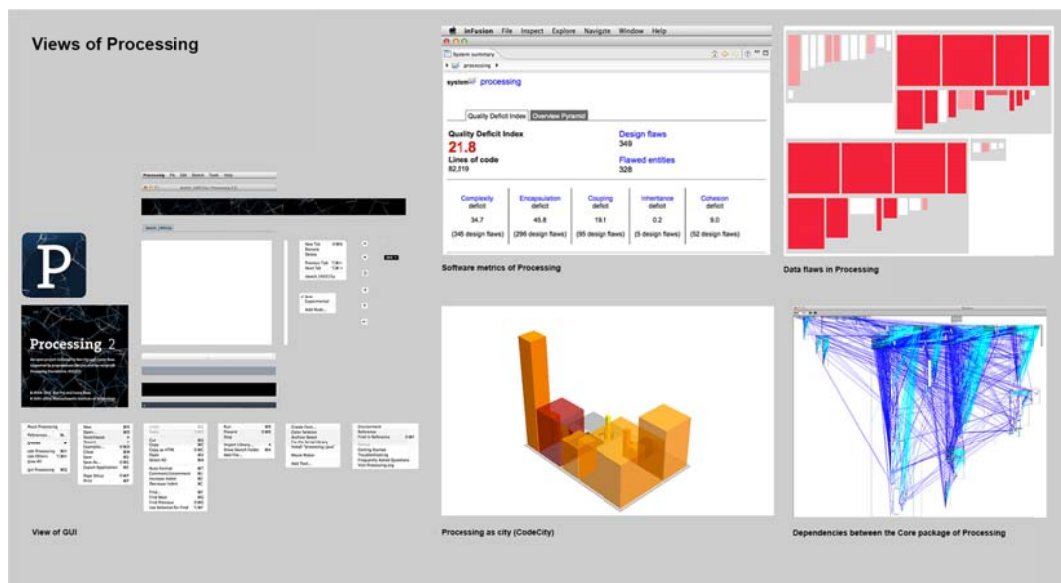


Figure 5.9. Visualizations of Processing 2

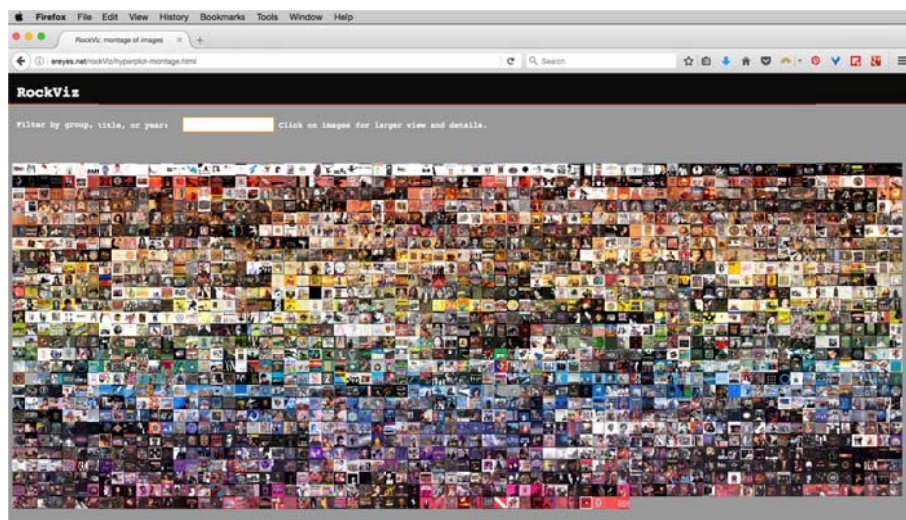


Figure 5.11. Interactive image mosaic of 2000 rock album covers

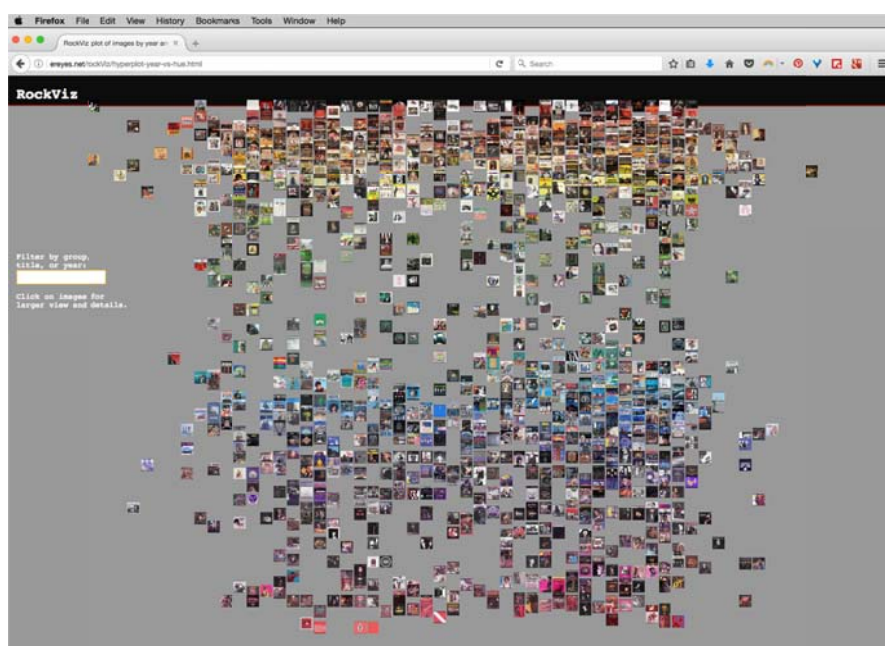


Figure 5.12. Image plot of 2000 rock album covers. X = years; Y = hue

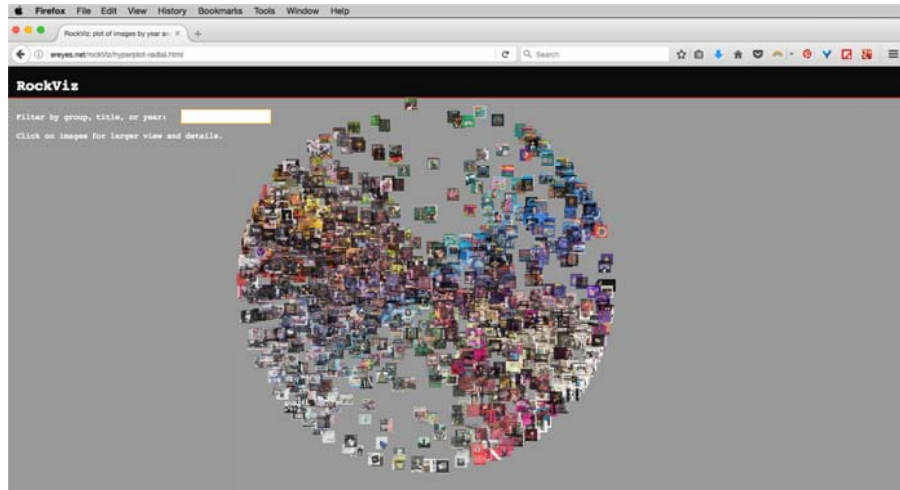


Figure 5.13. Experimental radial plot of images. $r^2 = x^2 + y^2$; $x = r \cos(\theta)$; $y = r \sin(\theta)$

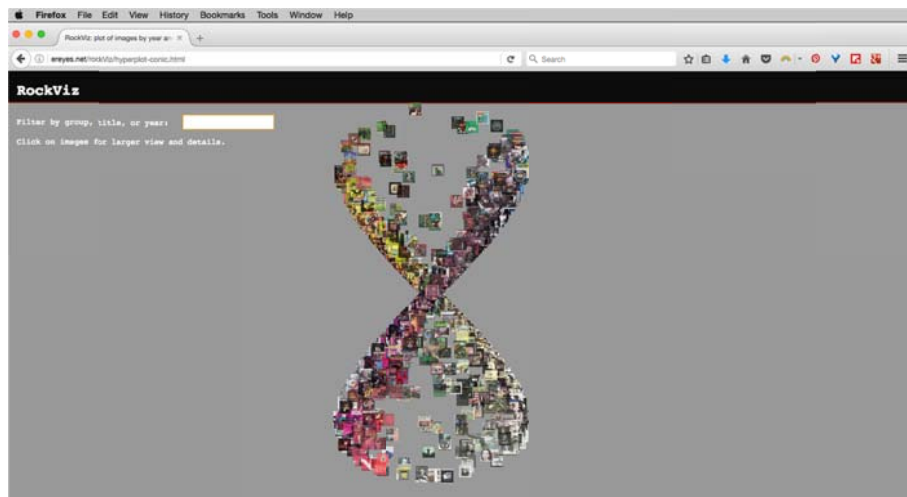


Figure 5.14. Experimental radial plot of images. $r^2 = x^2 + y^2$; $x = r \cos(\theta)$
 $\cdot \cos(i)$; $y = r \sin(\theta) \cdot \cos(i)$

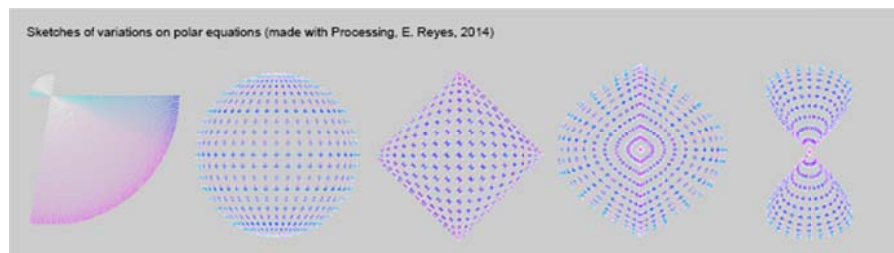


Figure 5.15. Sketches of polar plot variations

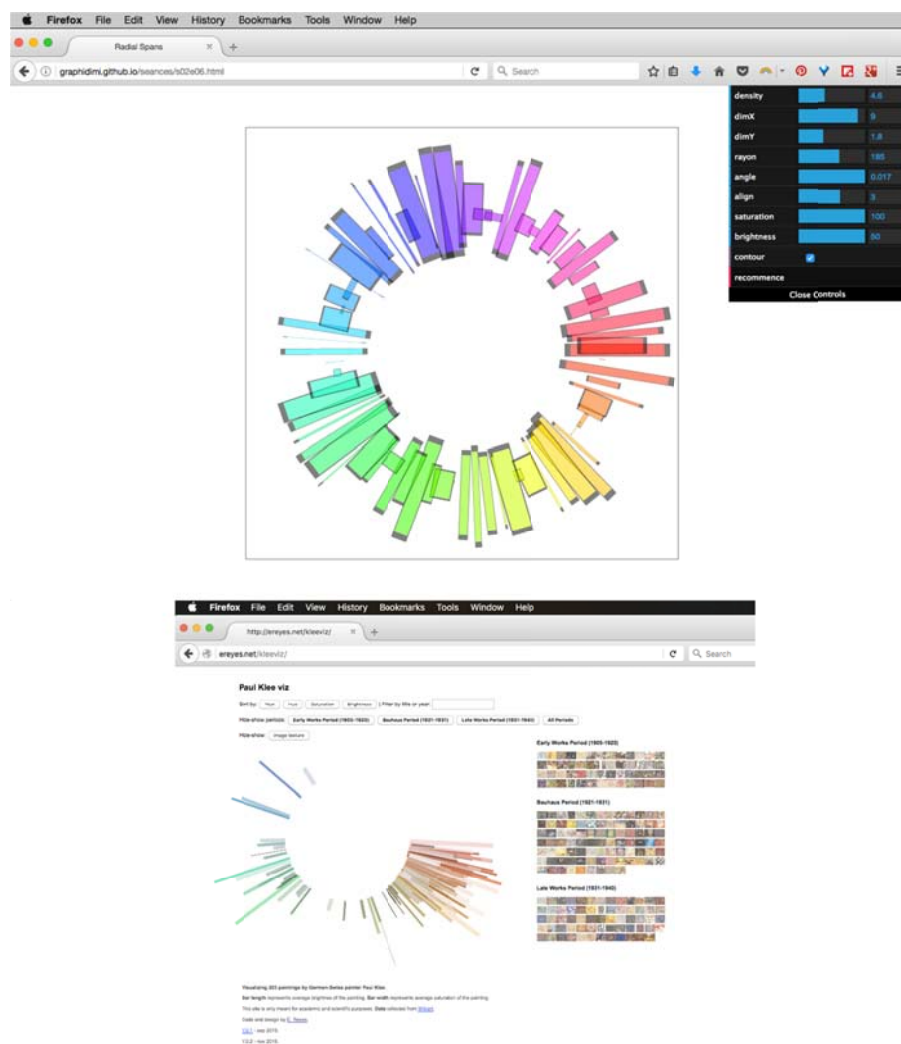


Figure 5.16. Adapting HTML positions to media visualization

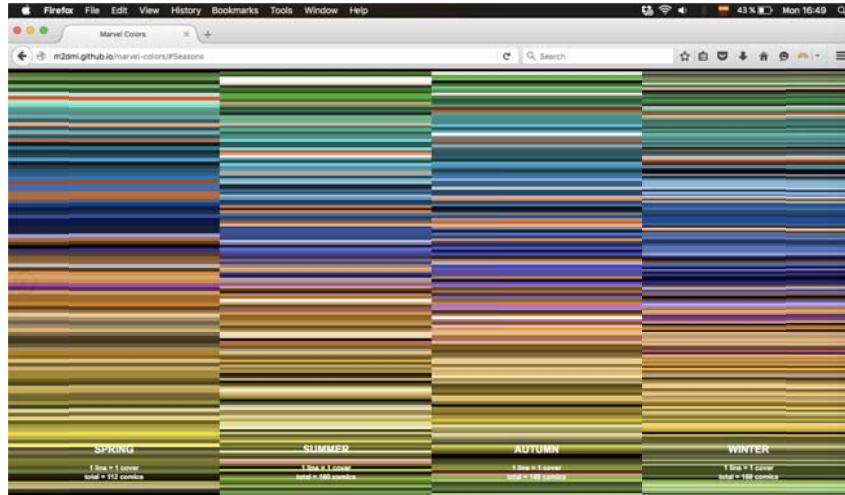


Figure 5.17. 609 Marvel comics covers by season, published between 2000 and 2015 (created by Blumenfeld, Mauchin and Lenoir)



Figure 5.18. 120 dress photos from Oscar awards between 2010 and 2016 (created by Corviole, Legrand, Magny, Molina and Nguer)

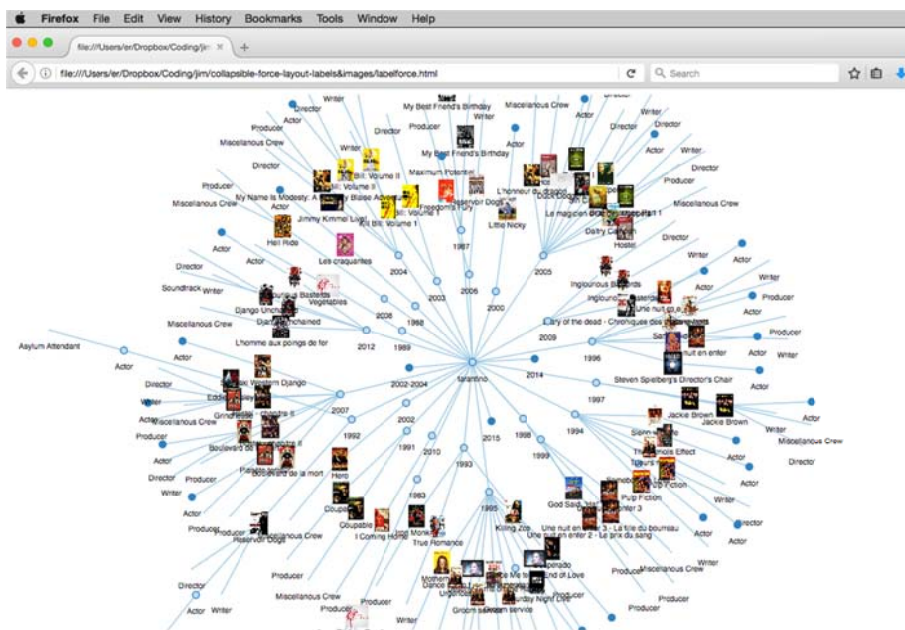


Figure 5.19. D3.js force-directed graph with images. Created by J. Caignard

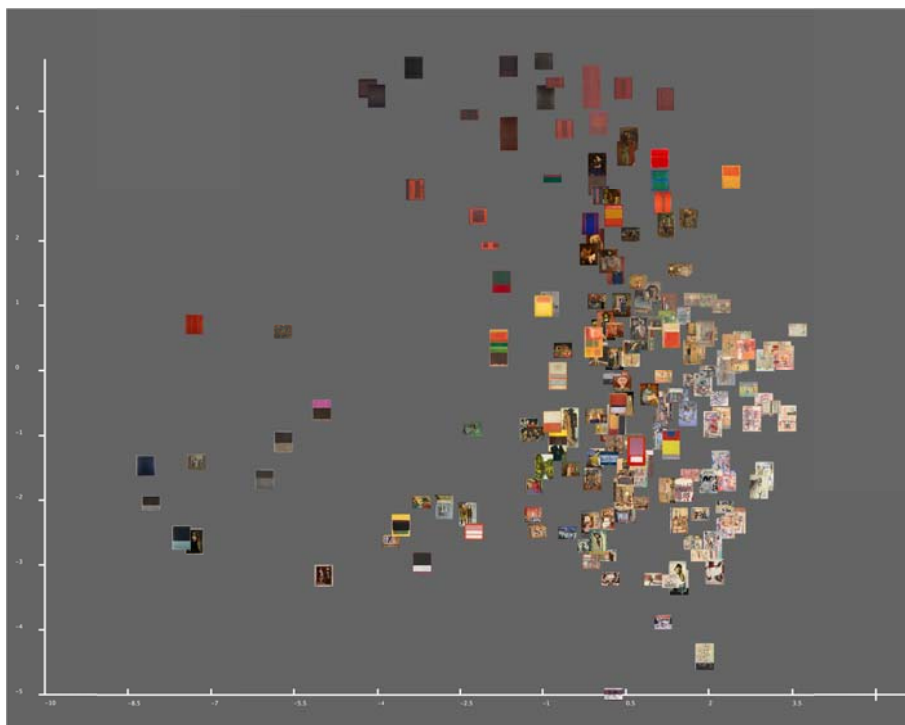


Figure 5.21. Image plot of PCA factors

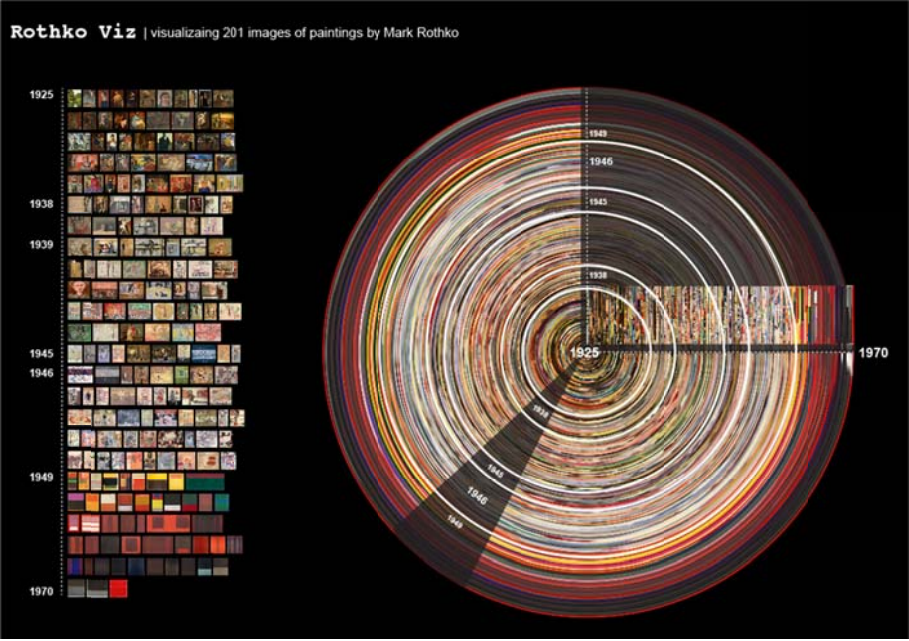


Figure 5.22. Polar plot of Rothko images of paintings

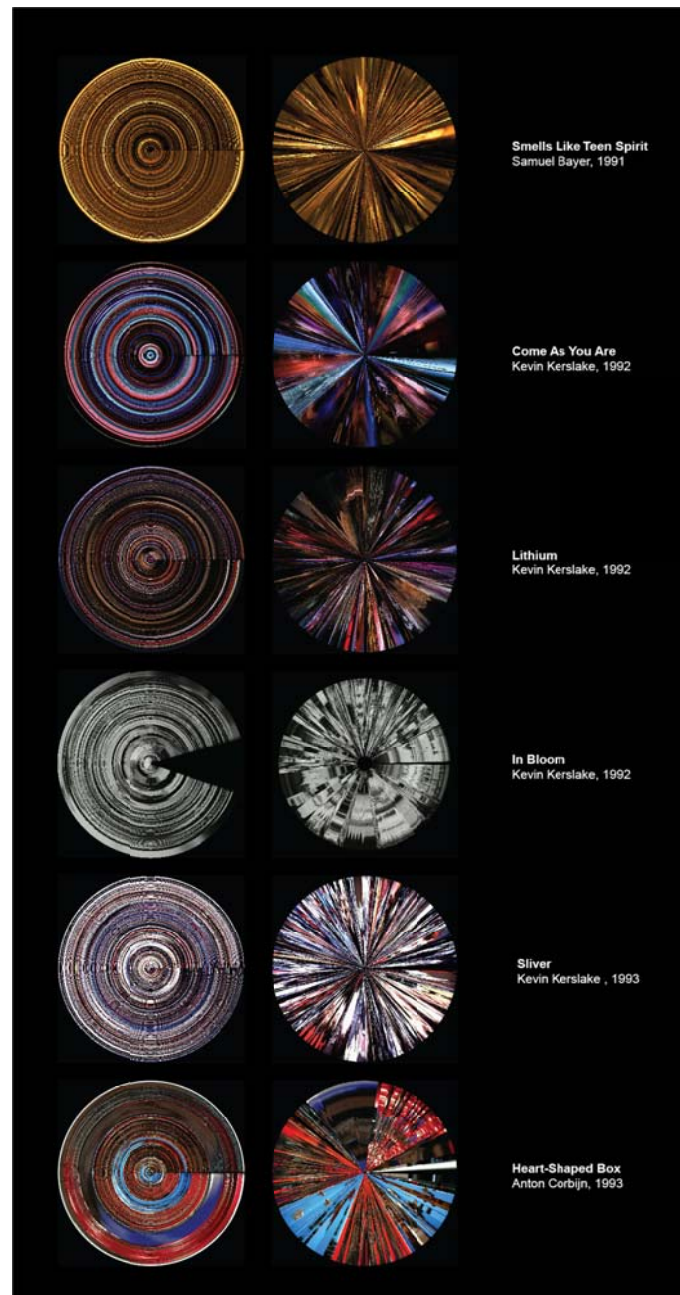


Figure 5.23. Polar plots of Nirvana videography

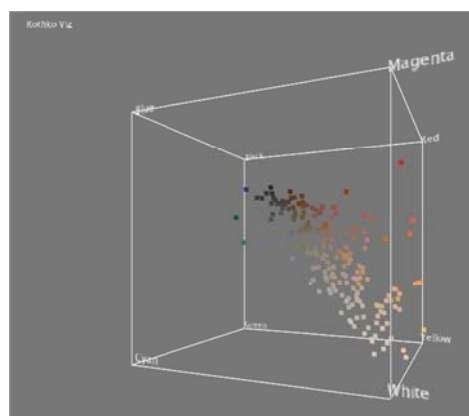
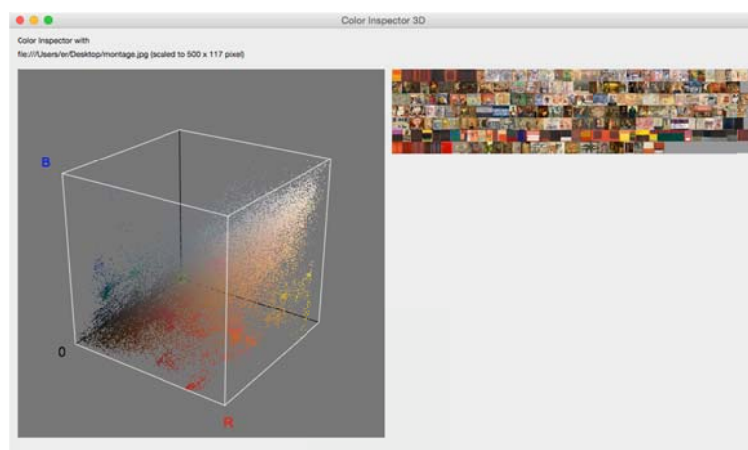
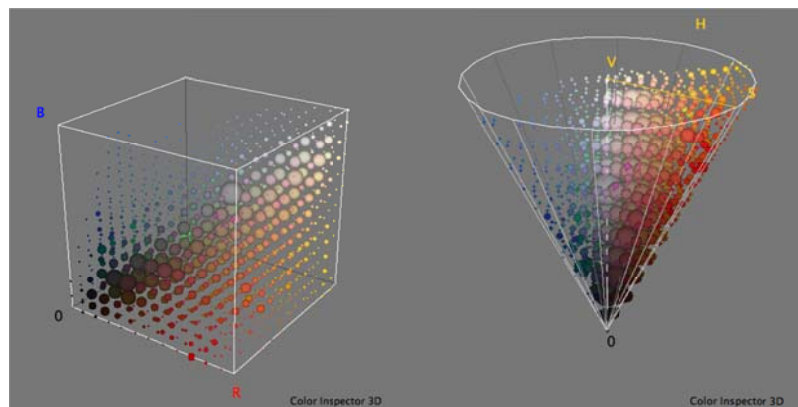


Figure 5.24. 3D plots of Rothko images

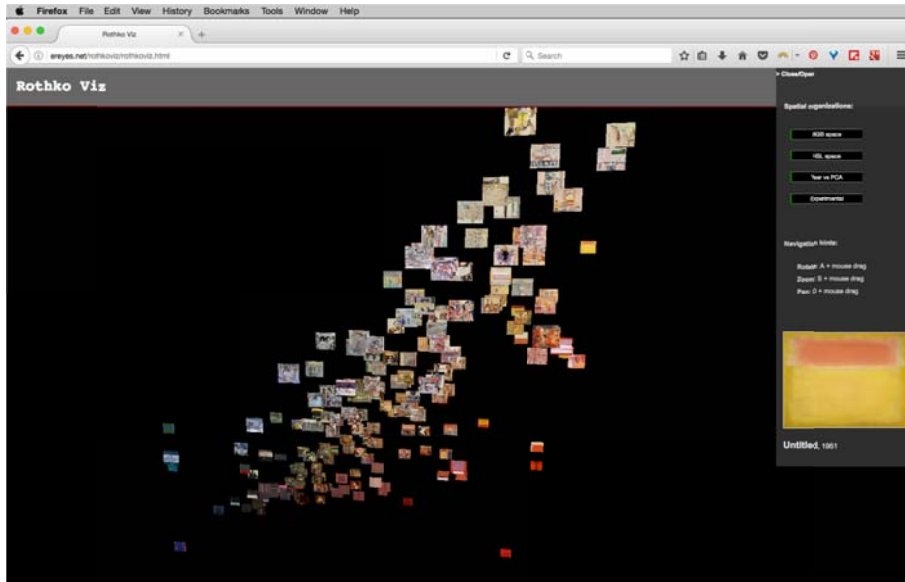


Figure 5.25. Interactive web-based 3D media visualization

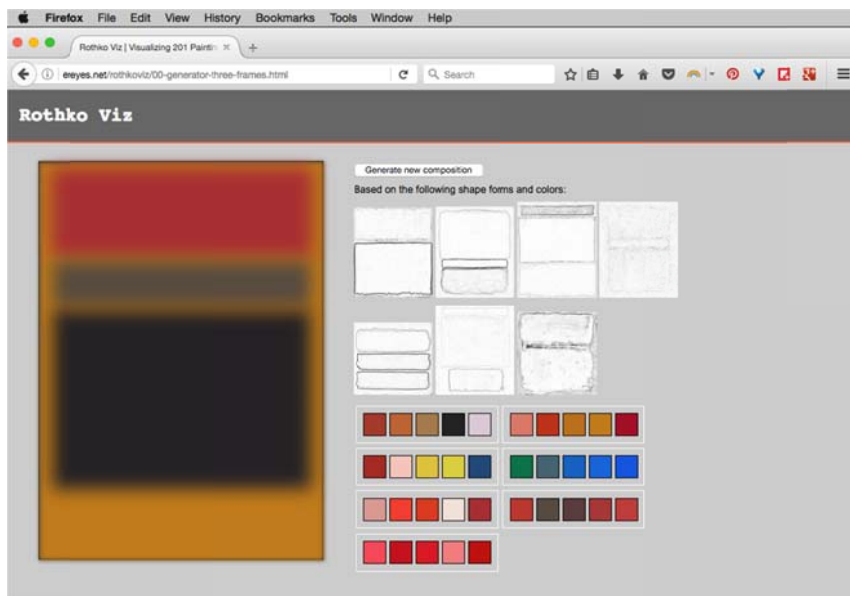


Figure 5.27. Image generator based on visual attributes and composition rules

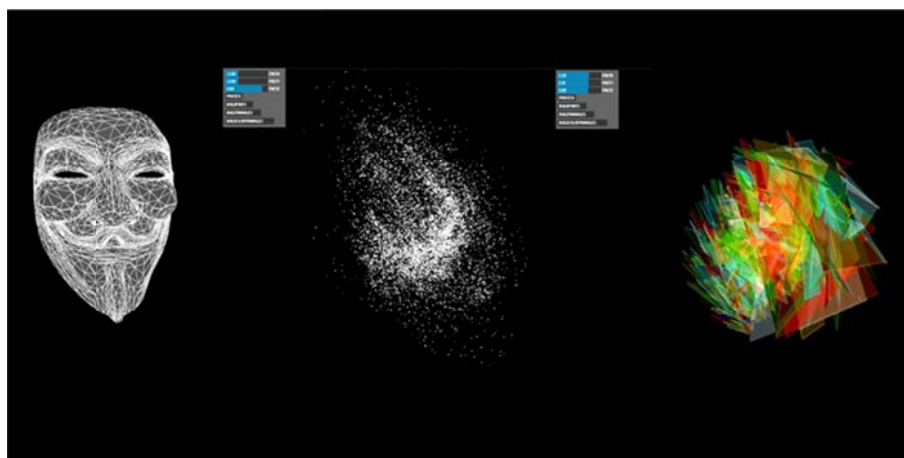


Figure 1. Disrupting 3D models. Three geometric configurations of the same 3D object