

Photoshop Fantasies

Walter J. Scheirer Dept. of Computer Science and Engineering University of Notre Dame









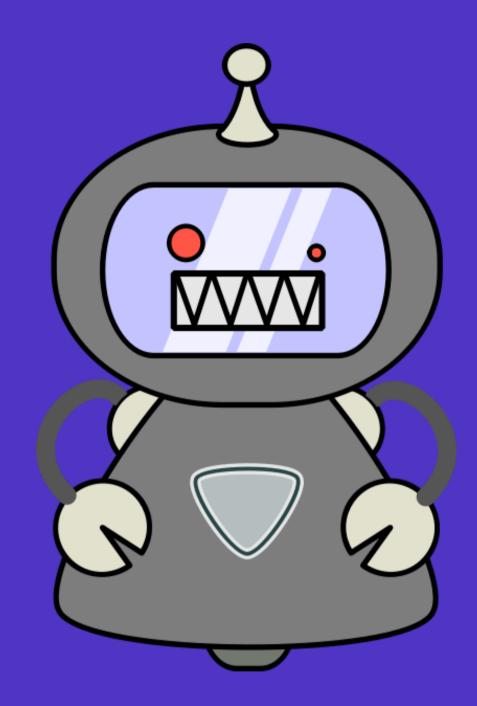






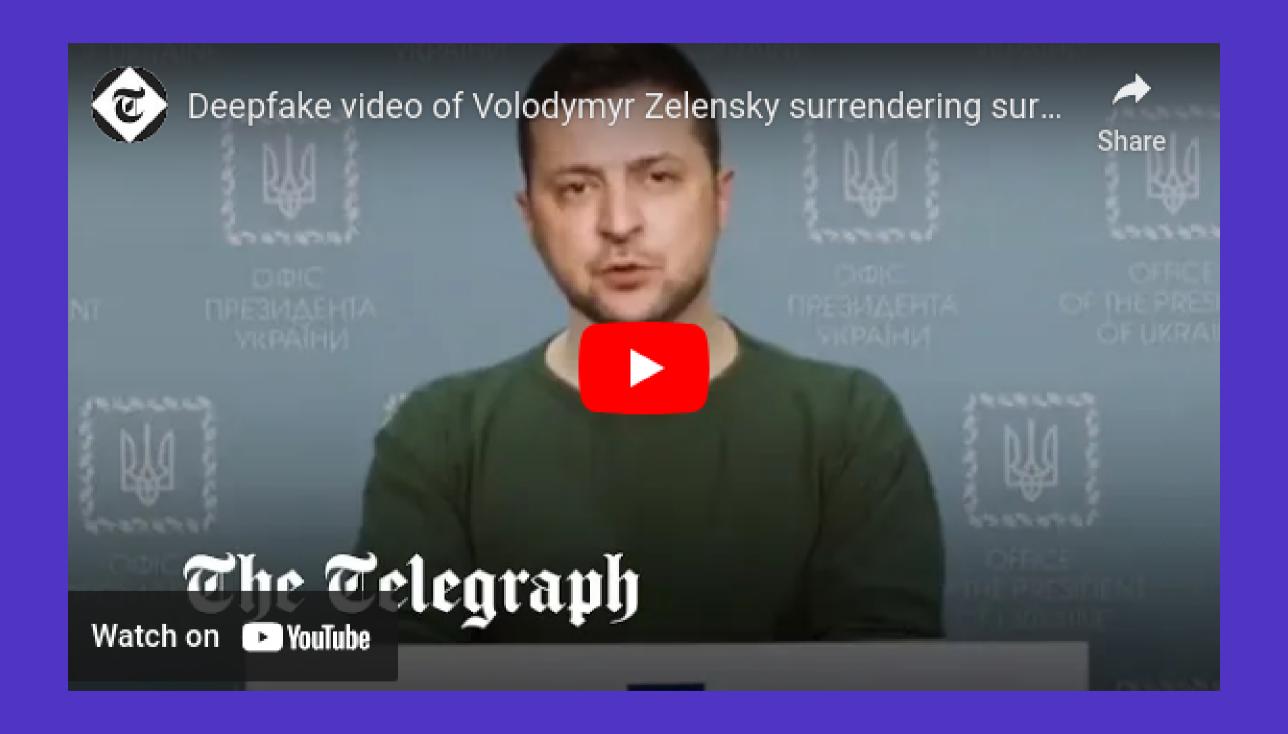
How much fake stuff is out there?

- Less than 60% of all web traffic is human
- The bulk of users on social media platforms are bots
- The veracity of most of the content people are consuming is in question



Source: "How Much of the Internet Is Fake? Turns Out, a Lot of It, Actually." *New York Magazine*. Dec. 2018.

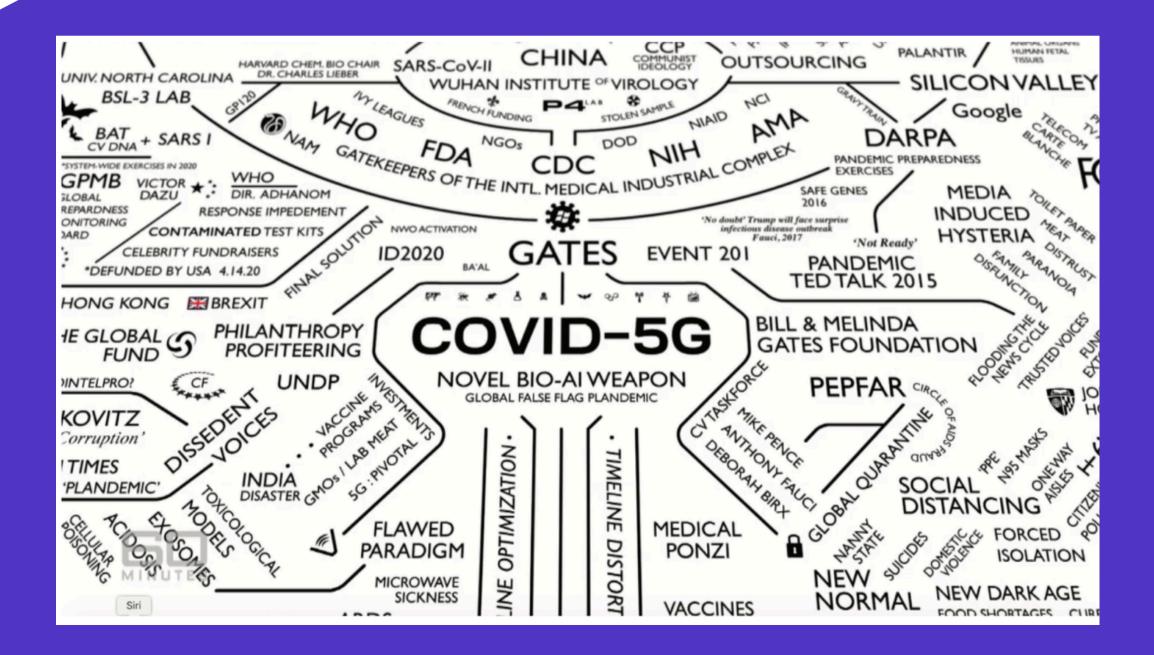
Deep Fakes





Meme Universes

From the Paranoid Fringe



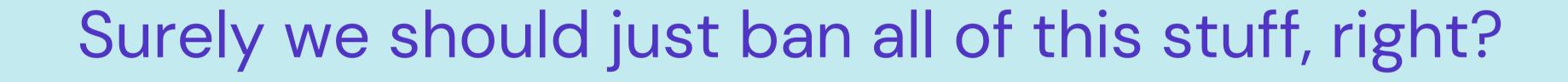
Restyling Reality













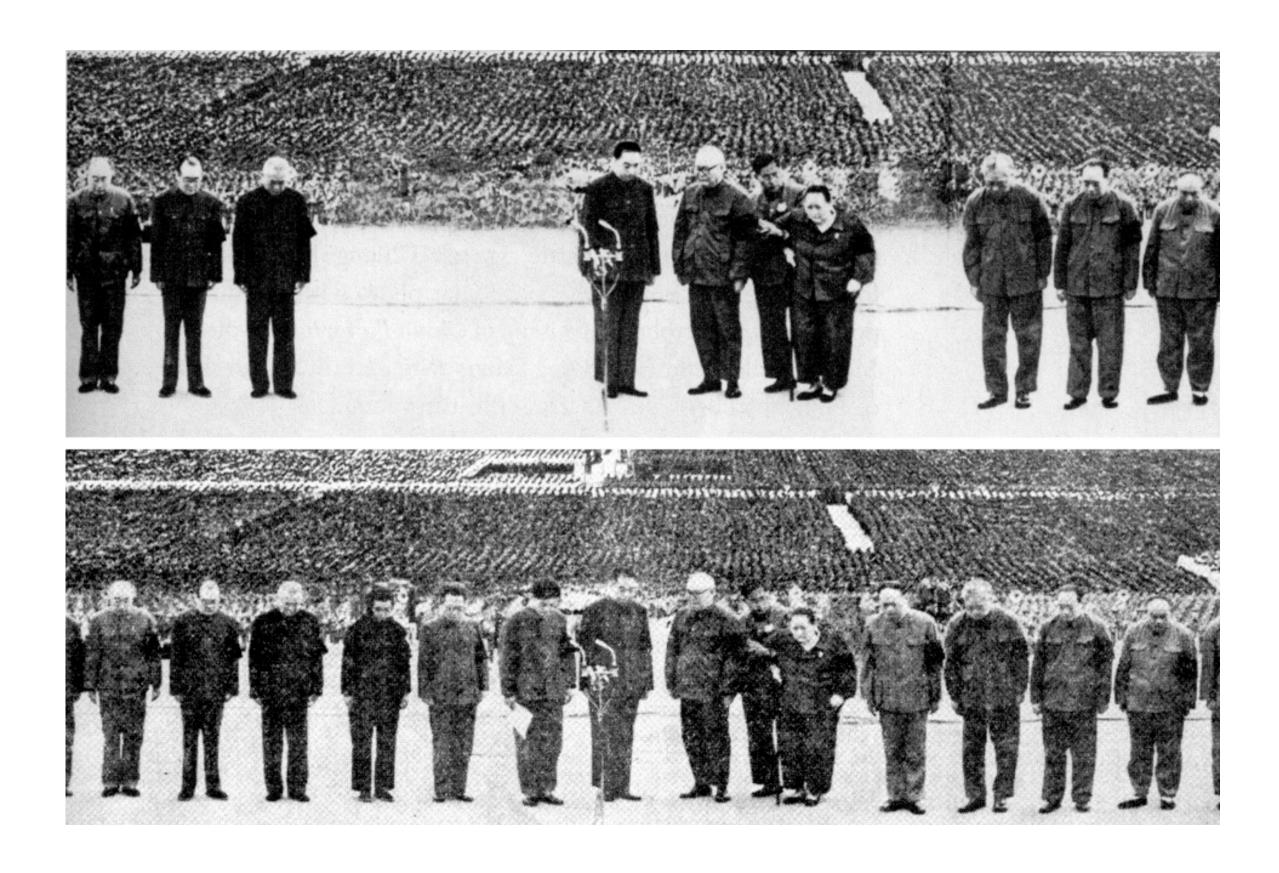
Maybe a reflection on photography itself is warranted



"If you want knowledge, you must take part in the practice of changing reality."

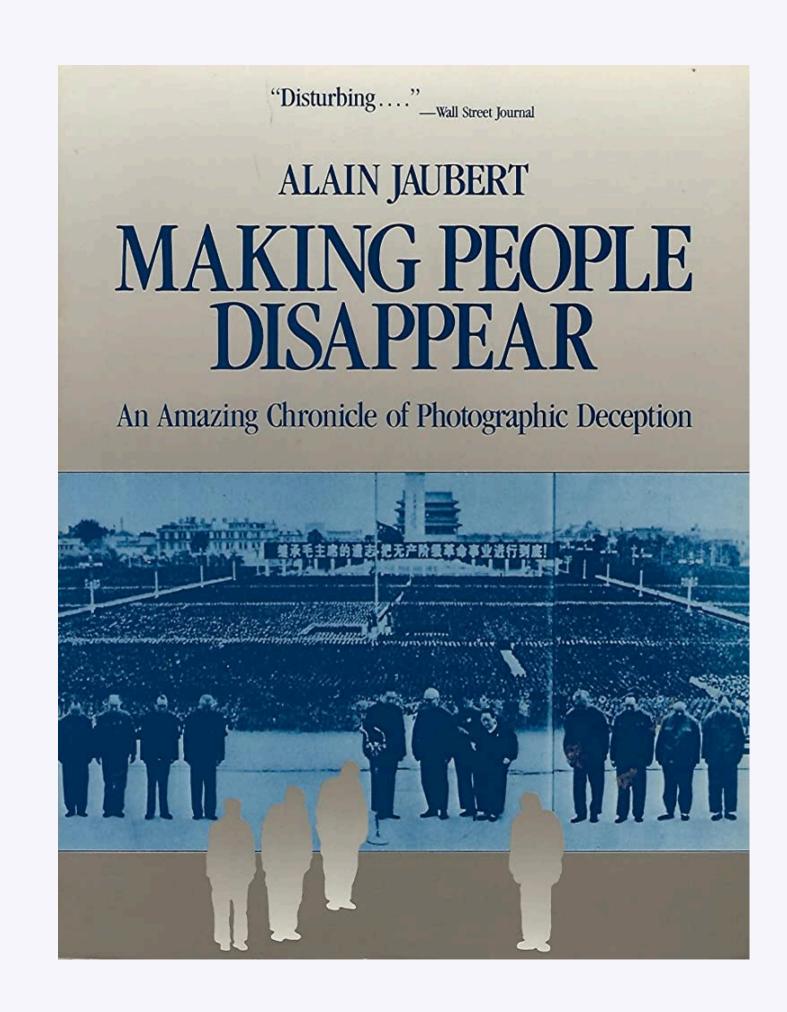
Mao Zedong, "On Practice"

Mao's Funeral

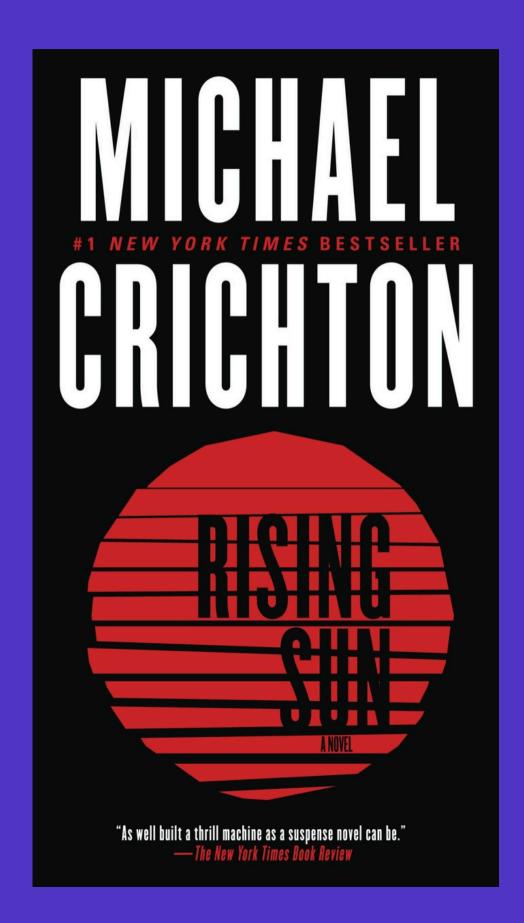


"Jaubert points out that the systematic faking or falsification of history are encountered 'anywhere a serious effort is made to copy the methods of totalitarian propaganda characterized by its three major styles: Fascist, Nazi, and Communist...' The falsification of photographs comes easily to those governments and elites that seek to be the sole interpreters of history and have a monopoly on the information media..."

Roy Godson



Rising Sun (1992)



"The case law isn't entirely clear. But it's coming. All photographs are suspect these days. Because now, with digital systems, they can be changed perfectly. Perfectly."

What is the truth?

"The idea that photographs hand us an objective piece of reality, that they by themselves provide us with the truth, is an idea that has been with us since the beginnings of photography. But photographs are neither true nor false in and of themselves. They are only true or false with respect to statements that we make about them or the questions that we might ask of them."

Errol Morris

What is the truth?

"Conceptually, we may call the truth what we cannot change; metaphorically, it is the ground on which we stand and the sky that stretches above us."

Hannah Arendt

Arendt, Hannah. "Truth and politics." Truth: Engagements across philosophical traditions 295 (1967).

Manipulation in the era of film photography

Self Portrait as a Drowned Man (1840)



Self Portrait as a Drowned Man (Reverse)

"The corpse which you see here is that of M. Bayard, inventor of the process that you have just seen, or the marvellous results of which you are soon going to see. To my knowledge, this ingenious and indefatigable researcher has been working for about three years to perfect his invention. The Academy, the King, and all those who have seen his pictures, that he himself found imperfect, have admired them as you do at this moment. This has brought him much honour but has not yielded him a single farthing. The government, having given too much to M. Daguerre, said it could do nothing for M. Bayard and the unhappy man drowned himself. Oh! The fickleness of human affairs! Artists, scholars, journalists were occupied with him for a long time, but here he has been at the morgue for several days, and no-one has recognized or claimed him. Ladies and Gentlemen, you'd better pass along for fear of offending your sense of smell, for as you can observe, the face and hands of the gentleman are beginning to decay. H.B. 18 October 1840."

Photo Retouching

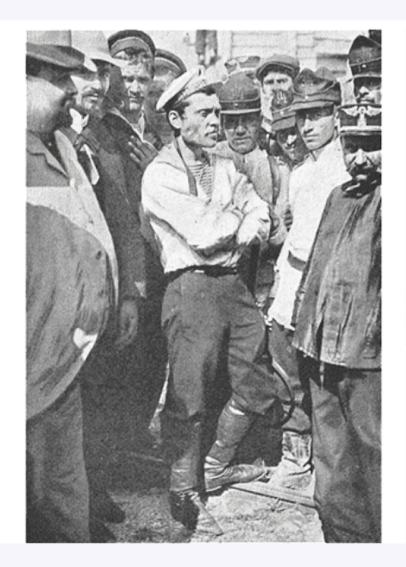




Facial Retouching







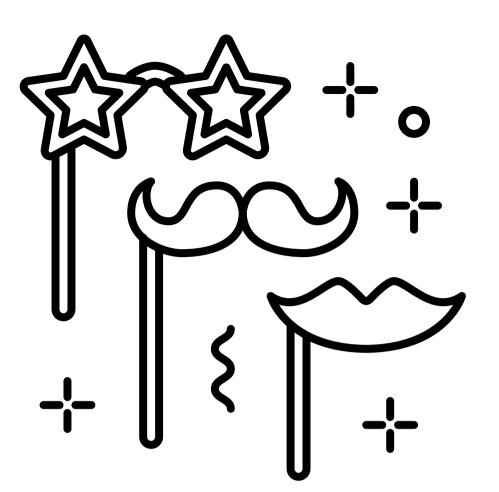


Cropping

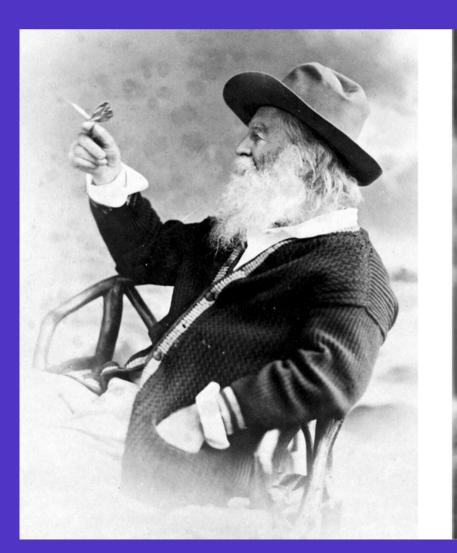


Face Swapping With Cutouts





Props





Photomontages

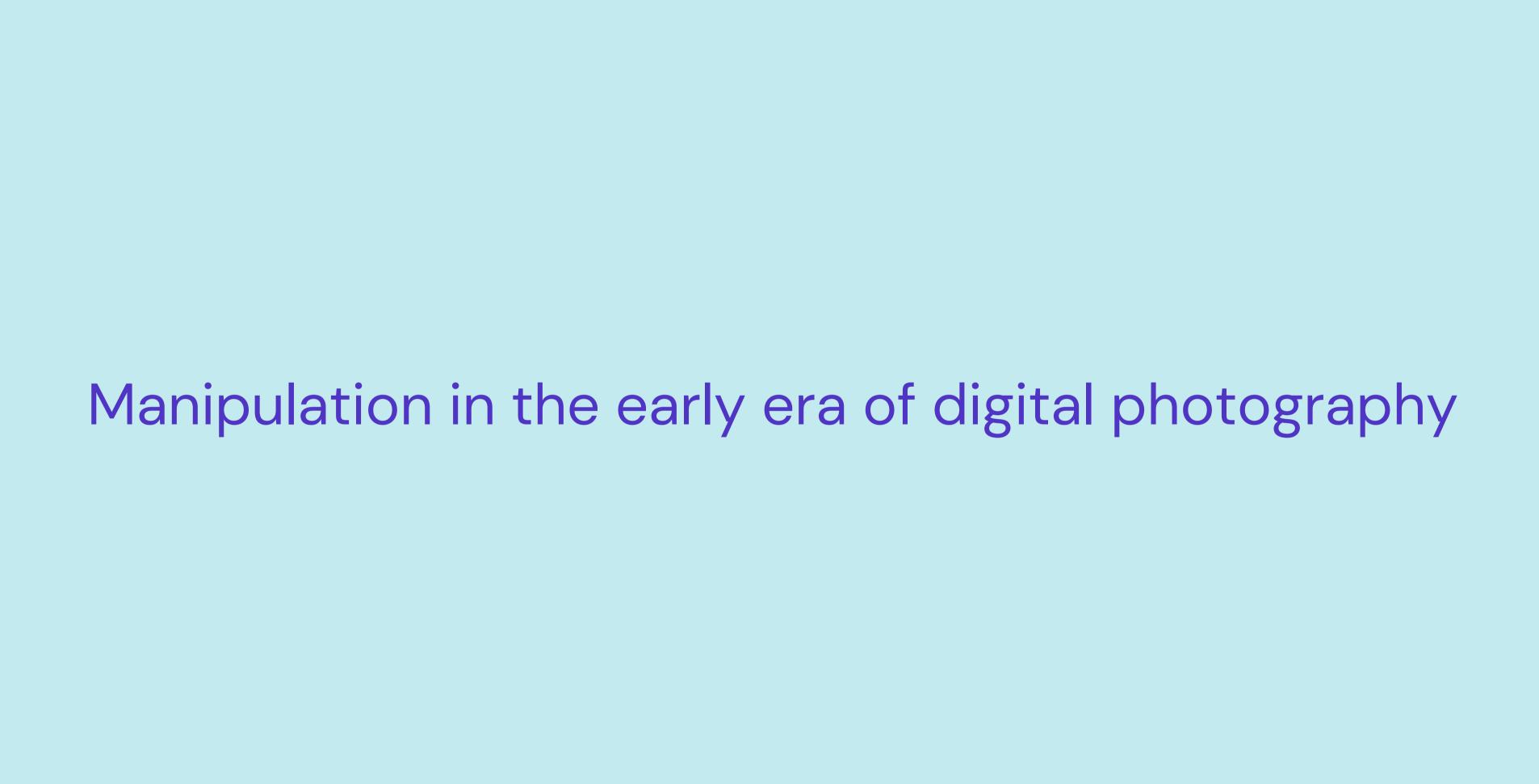




Double Exposure Photography



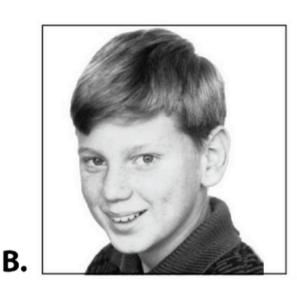




Digital Darkroom (1988)







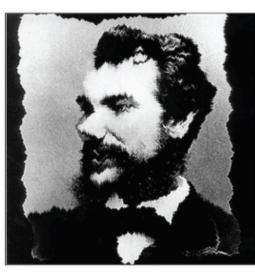




Blurring for Retouching

Image Splicing









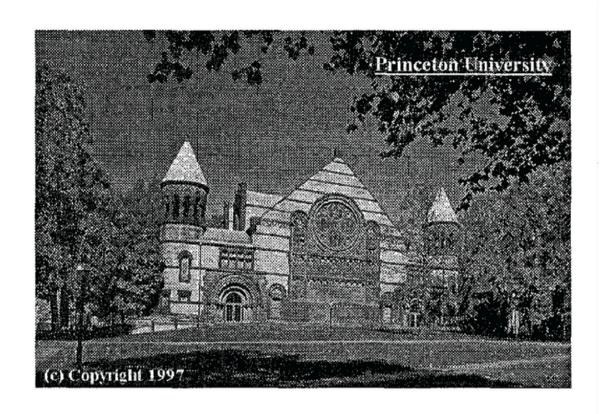
Head Shrinking, Artistic Stylization, and Corporate Logoization

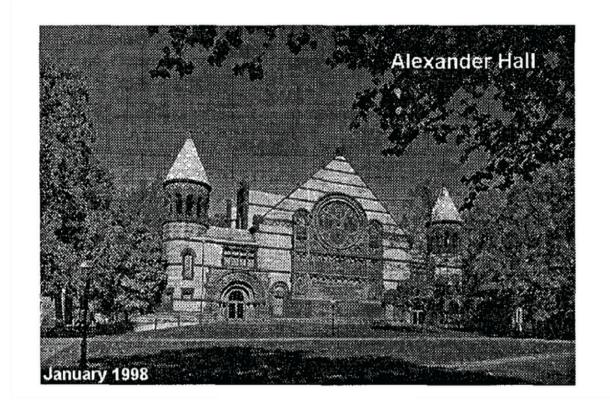
Holzmann, Gerard J. 1988. Beyond Photography. Hoboken: Prentice Hall.

Photoshop (1988)





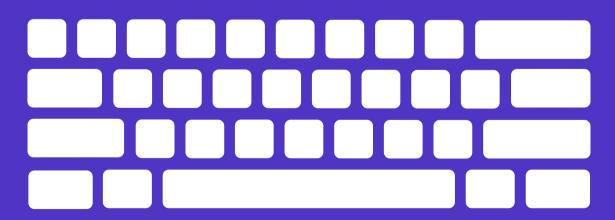






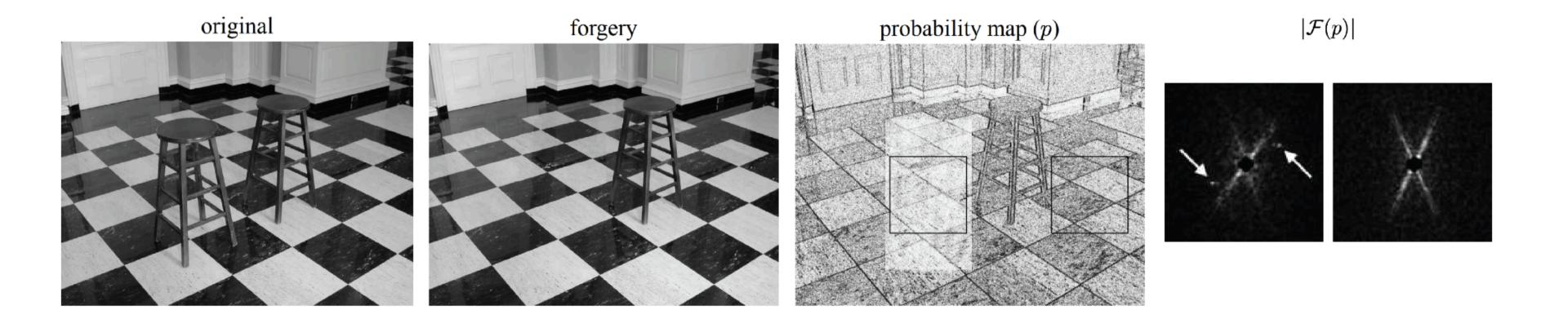


Wu, Min and Bede Liu. 1998. "Watermarking for Image Authentication." IEEE International Conference on Image Processing 2: 437–441.



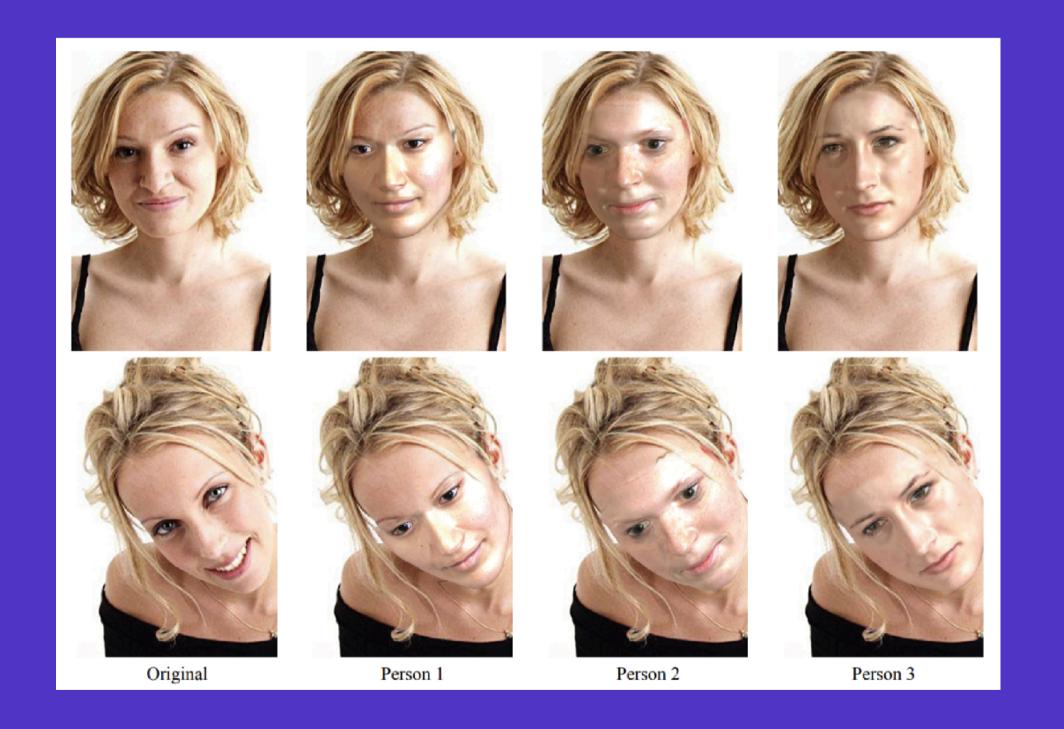
Text Overlay Editing

Deletion of Objects (2004)



Popescu, Alin C. 2004. Statistical Tools for Digital Image Forensics. Dartmouth College Ph.D. Dissertation.

Face Swapping (2004)



Blanz, Volker, Kristina Scherbaum, Thomas Vetter, and Hans-Peter Seidel. 2004. "Exchanging Faces in Images." Computer Graphics Forum 23 (3): 669-676.

Memes and Manipulation (2001)



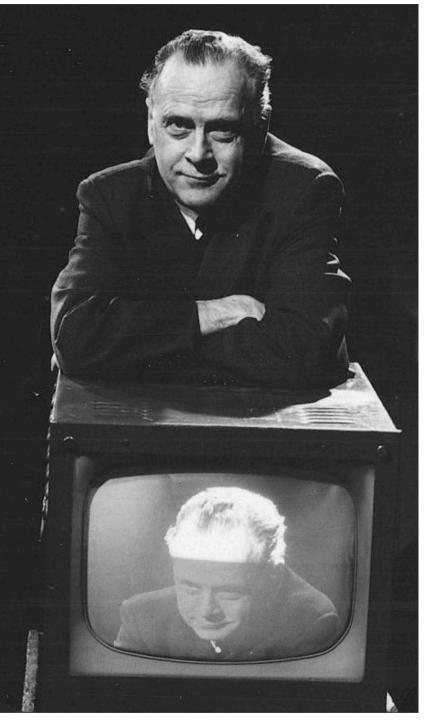




https://www.wired.com/2001/11/hes-the-real-tourist-guy/

The Frontier of the Imagination

Marshall McLuhan

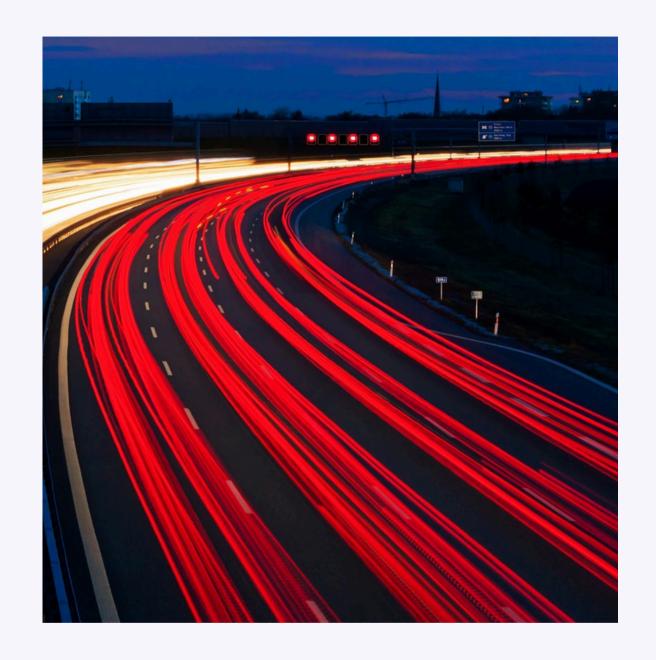


"electric circuity, an extension of the central nervous system"

Fiore, Quentin, and Marshall McLuhan. The Medium is the Massage. Vol. 9. New York: Random House, 1967.

Information Superhighway

VS.



"Wander through a distant library. Turn your corner store into a multinational. Curious? IBM can get you there."

https://www.youtube.com/watch?v=GcoBY-GBBQM



Something Awful's Photoshop Fridays (Early 2000s)





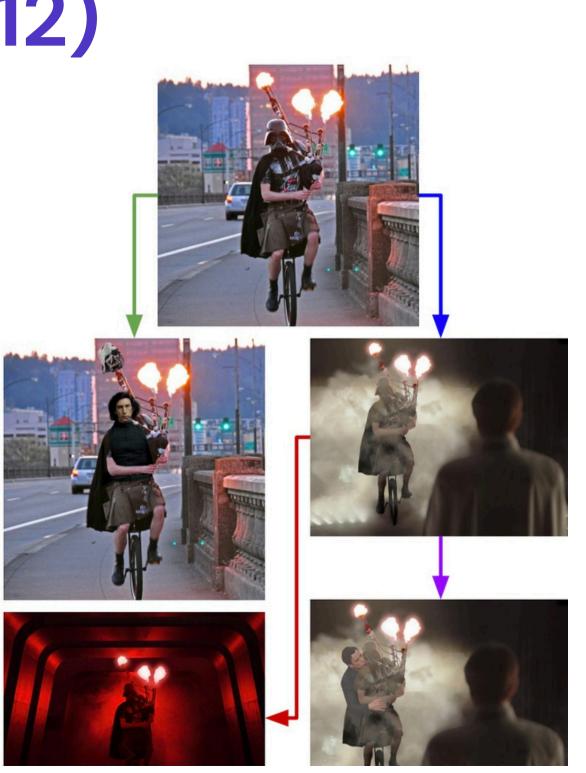


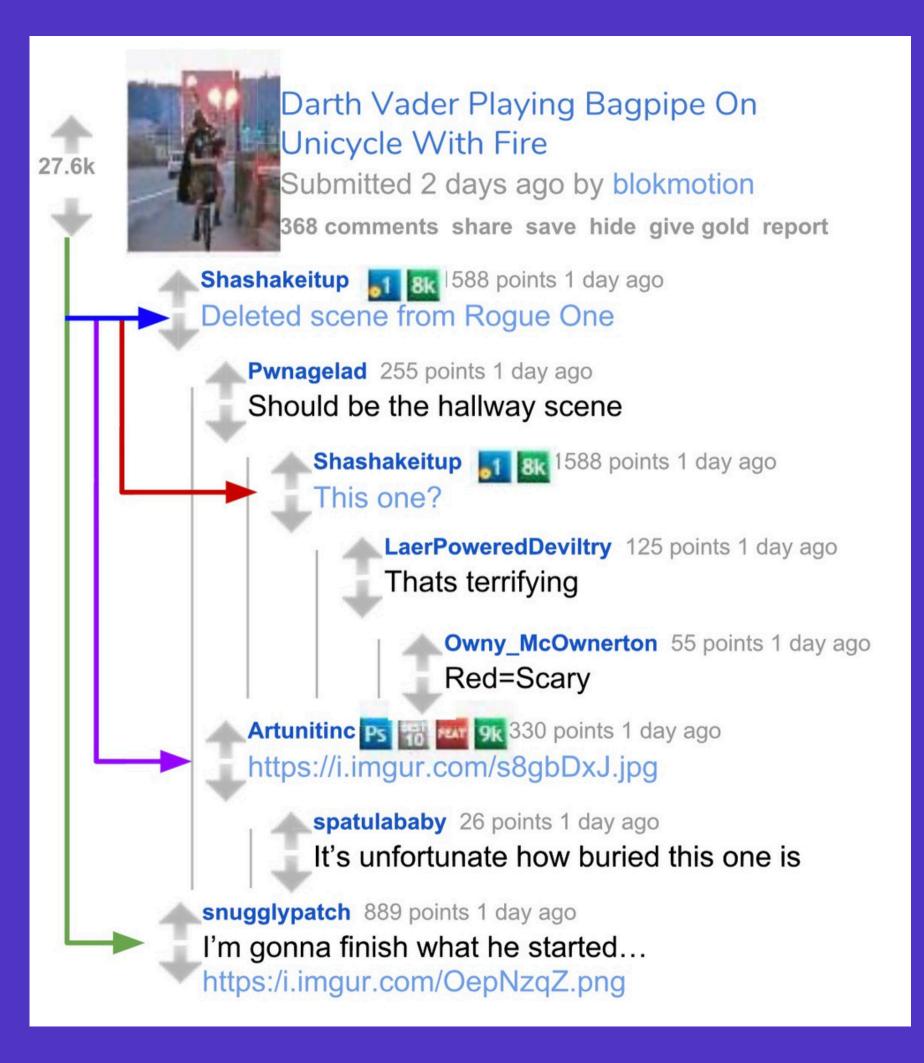
Artist: Lowtax (2001)

Artist: darthfunk (2002)

Artist: Groggie (2006)

Reddit's r/photoshopbattles (2012)





Generative Art Communities (Present)





https://huggingface.co/spaces/akhaliq/ArcaneGAN

Want to learn more?

Available wherever fine books are sold!



And add a review to Goodreads / Amazon if you like it!