speculative photography

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attempt of making visible (= essay & manifesto)

demands

Speculative photography is non-empirical photography. It is photography that exposes its non-empirical nature rather than concealing it.

However, speculative photography can still be experimental. Experimental photography becomes speculative, and speculative photography becomes experimental, when its process becomes speculative. This can also be unintentional or humorous.

Speculative photography can also be speculative in the sense of West German Catholic film criticism of the 1970s, which called gore and sexploitation B-movies "speculative".

Speculative photography questions definitions and hierarchies of what is "signal" versus "noise".

Speculative photography disregards distinctions between "amateur," "professional," "skilled," "unskilled," "outsider," "artistic," and "commercial" photography.

When speculative photography makes the invisible visible, the invisible is often imaginary, or at least dubious.

The evidence collected in speculative photography is questionable. It is ghost photography in the broadest sense, where photography itself is often the ghost.

Speculative photography often is a collective-anonymous endeavor.

photography point zero

As a result of techno-aesthetic developments culminating in computational photography...

i.e. algorithmic synthesis of a photographic image from a series of high-speed digital camera images taken at different exposures and from different camera modules of a mobile phone, with the consequence that smartphone cameras are no longer taking shots of a particular moment, but fuse image elements taken at different moments, based on aesthetic norms coded into the camera software; this is now the standard mode of operation of mobile phone photography, and thus of the majority of today's photography

…and photorealistic image generation with generative AI software, photography seems to have reached its degree zero. To riff on Roland Barthes' characterization of realistic prose novelism, photography has thus "passed through all the stages of progressive solidification" to settle in "neutral modes" characterized by "the absence of all signs".¹

Photography's degree zero is photorealism. The conceit of computational photography and generative AI is that their depictions are technically no longer photorealistic in any empirical sense, but algorithmic simulacra: "Photorealism is dead. We should just bury it, and it's all hallucination", 2 to quote MIT AI researcher Ramesh Raskar referring to smartphone computational photography. Nevertheless, the simulacrum and hallucination serve the purpose of producing photorealism, with deviations considered errors and glitches; such as six fingers on the hand of an AI-generated, otherwise photorealistic image of Donald Trump bidding in a church, which Trump himself shared on his social media, freeing him from any obligation to actually go to church and involuntarily executing the "Six Finger Plan" of the DIY subculture of Neoism in the 1980s.

As algorithms continue to be optimized, this remaining fantastic-speculative quality of AI machine learning-based computational photography and generative imaging is likely to disappear. It has already diminished considerably in the version advancements of AI image generators such as Stable Diffusion and Midjourney in the last 1½ years. Furthermore, AI researchers and developers expect computational photography and generative AI to eventually merge, which would mean that a camera's sensor image would end up being only prompt input data for a synthetically generated image; this way, a webcam image could be

¹Barthes, Roland. Writing Degree Zero. Hill & Wang Pub, 1990 (1953), 5.

²The Evolution of Smartphone Night Photography. By Julian Chokkattu, WIRED, 2022. YouTube, https://www.youtube.com/watch?v=nk-261SbIMk.

rendered not only in the style but also in the resolution of a medium format camera photograph.

While the resulting photorealist images of computer photography remain technically a "hallucination," they aesthetically suppress and deny this fact. The same was true of the social realist novelism that Barthes criticized in the 1950s: it consisted of writers' hallucinations that pretended not to be hallucinations, through a language that made its own variantology, apparatus, and texture (in Barthes' words: "écriture") invisible; a sign that pretended to be only signified, not signifier, only mimetic representation, not poesis.

From the camera obscura to computational photography, photography has thus in semiotic terms - shifted from being indexical, as a textbook example of indexicality, to becoming symbolic, but by way of (photorealistic) iconocity. In arguably the first comprehensive photography book, Athanasius Kircher's 1646 Great Art of Light and Shadow (Ars Magna Lucis Et Umbrae), the camera obscura projects the outside world as an image that uses light as an index (that is, neither as an iconic depiction nor as an abstract-symbolic representation), similar to smoke as an index of fire. This indexicality has been the very principle of photography and persists wherever light strikes a medium (the wall of a camera obscura, the silver-plated copper of a daguerrotype, chemical film emulsion, the sensels of an electronic camera sensor). The trompe l'oeil of photography was based on human perception registering this indexicality as photorealist iconocity, similar to how human reading is persuaded into reading the abstract-alphabetical symbols of a (realist) novel as mimetic depiction of social reality. In this sense, photography has always been illusion and hallucination, just like novels, and long before computational photography. As every photographer knows, photorealism itself is a myth created by lensing (focal length and lens characteristics), spatial framing, choice of moment, aperture, shutter speed, exposure, processing, reproduction, publishing, and, since computing, the Internet: semantic tagging and databasing that made images data and objects of algorithmic "analytics," which ultimately amounted to the datasets for AI machine learning.

Computational photography and generative AI imaging is therefore zombie-cannibalistic photography that feeds on itself. While cannibalism, since Oswald de Andrade, and zombies have their own speculative qualities, the results so far resemble more the zombie formalist painting of the 2010s, i.e. the kind of zombie cannibalism also found in stock photography and related genes. AI-computational photography effectively turns photography into digital painting and compositing, into pocket-sized and automated Chuck Closes and Jeff Walls or, more likely, Zack Doehlers and Erin Babniks, while other AI bots will generate endless serializations of Garaudy, Camus, Sartre, and their contemporary equivalents, sold as zombie publisher books on Amazon.com.

In this post-histoire of photography (and writing), photography needs a time machine that travels in all directions at once, fusing the ars magna lucis et umbrae with imagined futures.

interlude: practices

If speculative photography is indexical [i], capturing traces of light, but not depictive in a conventional realistic sense, because it produces its own other reality [r];

If its indexicality is not experimental in the sense or according to the standards of empirical science, but practices speculative and improper science [s] and technology [t], and gathers invented or dubious evidence [e];

If its indexicality nevertheless exposes photographic textures and apparatuses [a], it does so without any diegesis or didactic (Brechtian-situationist) mission, ³ but by rethinking noise [n] vs. signal;

If speculative photography is marginalized [m] photography, both in terms of its professional recognition and its social position and acceptance;

If speculative photography acts as a time machine [x];

attribute	tag
exposes photographic textures and apparatuses made-up or dubious evidence indexical marginalized / fringe rethinking noise vs. signal produces its own (alternative) reality speculative and improper science speculative and improper technology time machine	[a] [e] [i] [m] [n] [r] [s] [t]

…then examples of existing speculative photography practices include, in no particular order:

• 19th-21st century spirit photography, as begun by William H. Mumler and other, amateur and commercial photographers, showing ghosts of the dead; often by double exposures, later by image artifacts, in direct parallel

³That also characterizes conceptualist photography such as Thomas, Lew. Structural(Ism) and Photography. NFS Press, 1978, although Thomas' formalist experiments have, through their formalism, a (likely unintentional) fantastic-speculative quality.

- to the technique of retrieving ghost voices from radio ether and tape recordings; [e] [n] [r] [s] [x];
- Miroslav Tichy's sexually voyeuristic stealth photography with self-made cameras that his fellow villagers mistook for nonfunctional cargo-cult devices [a] [m] [t];
- the Japanese magazine PROVOKE in 1968/69 and its stark black-and-white "are-bure-bokeh" ("grainy, blurred, out of focus") street photography whose texture often overpowered the depicted subject; [a] [i] [n]
- Nan Goldin's immersed photography in which the photographic medium is as precarious as the lives it indexically captures and keeps alive beyond sickness and death; as well as the immersed, on-the-spot, often improvised work of other queer scene witness-photographers such as Annette Frick; [i] [m] [n] [r] [x]
- the exposure, destruction, and reimagination of film materiality and the optical apparatus in the early filmmaking of Wilhelm & Birgit Hein (Rohfilm & Materialfilme, 1968-76), Guy Sherwin (Man with Mirror, 1978), and in the contemporary self-made emulsion filmmaking of Esther Urlus and Robert Schaller, preceded by Stan Brakhage's Mothlight, a film composed of wings of dead insects and plants glued to the filmstrip (1963); [a] [i] [n] [t]
- AiRich's afrofuturist photography that puts its speculative entanglements of the past and imagined futures into today's communities, transgressing categories of photography, fashion, visual and performing arts.
 [r] [s] [t] [x]
- the conceptual magazine VOLKSFOTO ("People's Photo"), edited by Dieter Hacker and Andreas Seltzer in the 1970s, whose collection of amateur photography began as a social documentary project but ended up as an archive of speculative intimacies. [i] [m] [n] [r]
- Lee Godie's overpainted photobooth self-portraits, created in the 1970s and sold on the street while she lived as a homeless person in Chicago. [a] [i] [m] [n]
- The experimental noisy, glitchy and semi-abstract photography with discarded consumer digicams from the early 2000s in various internet user communities, for example on the Discord server digicam. love. [a] [i] [n] [t]

Theories of speculative photography

Since the late 1970s, the term "speculative photography" has been used in rather scattered ways by various critics and scholars. Alan Trachtenberg evokes the kinship of the Latin word "speculatio" (mirroring) with the Greek "theoria" (way of seeing) and refers to Heidegger and the early André Glucksmann in hoping for a "truly speculative photography" by "photographers who are also critics (skeptics)". ⁴ Contemporary artist Daniel Buzzo, on the other hand, calls his photographic digital media experiments with augmented reality technology "speculative photography". ⁵

Much closer to the concept of speculative photography proposed here are the uses of the term by the scholars John L. Greenway and Anca Cristofovici. In an essay on late 19th-century Scandinavian art, Greenway equates "speculative photography" with ghost/spirit photography ([e] [s] [t]), writing that Edvard "Munch's experience with speculative photography and the occult was mediated through his friend August Strindberg". For Cristofovici, "[s] peculative photography concerns the visualization of internal and fictional worlds, or the perception of certain realities". In her view, speculative photography can "ensure the connection between the physical and the psychic self, one that eludes the rationalizations of discourse or the hierarchies of narrative. In a single vision, it brings together imaginary age-selves, not with the constancy of the phantasm but as fleeting images, like photographs themselves". Written as an investigation of the relationship between photographic portraiture, gender, and aging, her theory primarily concerns speculative photography as a time machine [x] and production of imaginary realities [r].

What remains outside these existing definitions is the photographic apparatus and (physical) media themselves as speculative devices, and their variantology. It is the same omission as in the definitions of fantastic and speculative literature which, with a few exceptions such as Renate Lachmann's, 9 refer only to the signified, not to the signifier or the "ecriture" of a text—i.e. to what is being told, not how it is told—, thus echoing what Barthes found in social realist novels.

⁴Trachtenberg, Alan. "Camera Work: Notes toward an Investigation." The Massachusetts Review 19.4 (1978): 857

⁵Buzzo, Daniel. "The Volca project: a sensory experiment in collaborative visualisation." Transimage 2018. Proceedings of the 5th Biennial Transdisciplinary Imaging Conference, (2018).

⁶Greenway, John L. "The Photograph as Esthetic Norm in Fin-de-Siècle Scandinavia." Fin(s) de Siècle in Scandinavian Perspective: Studies in Honor of Harald S. Naess (1993), 146.

⁷Cristofovici, Anca. Touching surfaces: Photographic aesthetics, temporality, aging. Rodopi, 2009, 2

⁸ibid., 52.

⁹Lachmann, Renate. Erzählte Phantastik. Zu Phantasiegeschichte und Semantik phantastischer Texte. Frankfurt: Suhrkamp (2002)

Fotonight Web

The following quote is from the Aesthetics Wiki, a reference site that grew out of popular, often collective—anonymously created visual pop culture trends on the Internet, in close proximity to meme subcultures:

The Dream (January 2, 2023)

On January 2, 2023, a Reddit user named u/williamsaguaro2002 had a dream related to Walt Disney Studios and Frutiger Aero. In that dream, the user got a voice acting job at Disney for a 'big purple fish' character, but the studio was located on a underground secret base, which had aliens and nuclear weapons. Later, he stumbled across an old Asian man talking about 'Fotonight Web', alongside a image associated to it above, although he doesn't remember what the senior said.

Reddit Post (January 3, 2023)

On January 3, 2023, he made a post on Reddit (see here) illustrating what he saw in his dream and later detailing what happened in it. This led to the creation of the subreddit r/FotonightWeb, housing a community surrounding the premise of this aesthetic.

Stylistic Origins (2000s, 2010s)

Although this is the origin how 'Fotonight Web' got its name and its associations from, their visuals can be traced back to the 2000s and 2010s, when it was commonly used in Chinese websites and knockoffs.

Visuals

The visuals of Fotonight Web consist of similar ones seen in Frutiger Aero such as Skeuomorphism, glossy textures, 'humanism', use of nature, bokeh, bubbles, glass, and auroras. These are combined with faucets of chinese internet culture such as Xpiritualism and Shanzhai. Shanzhai in particular emphasizes the counterfeit, imitation, or parody products aspect of Fotonight Web." ¹⁰

The Reddit user williamsaguaro2002 is most likely identical to the DIY electronic musician William Saguaro, who released the album $t\nu \tau \cdot f \cdot f \cdot r \nu \cdot r$

^{10 &}quot;Fotonight Web." Aesthetics Wiki, 30 Jan. 2024, https://aesthetics.fandom.com/wiki/Fotonight_Web.

and "im So Edgy and Cool." ¹¹ Typical elements of Internet meme culture can be found here: a pop-cultural imaginary that encompasses visuals, text, and music; techno-orientalism; a fusion of popular visual culture and computer user interface design. Fotonight Web is thus a smaller competitor to larger visual and musical pop culture trends such as the 2010s Vaporwave.

According to the Aesthetics Wiki, "aesthetic" needs to be understood in terms of a "Millennials and Generation Z" use of the word "as an adjective that describes what they personally consider beautiful". 12 The noun "aesthetic" refers to a "collection of visual schema that creates a 'mood'", 13 being factually synonymous with what is conventionally called a style.

While the reference to photography in Fotonight Web is symbolic but part of a fantastical imaginary, its immediate predecessor, Frutiger Aero (a reference to Adrian Frutiger's 1950s sans-serif typeface and its popularity in early 2000s advertising), grew out of a photography subculture. It was coined in 2017 by photographer, low-tech "digicam" experimenter and community organizer Sofia Lee, and is a retro take on the user interface aesthetic of Microsoft Windows 7 (originally released in 2009). ¹⁴

Frutiger Aero exists in close proximity to a photographic practice and subculture that embraces the technical shortcomings of cheap consumer digital cameras of the early 2000s, often focusing on their visual artifacts rather than photographic depiction, in a way that often resembles the ways with which structural experimental filmmakers of the 1960s/1970s made the material texture of chemical film visible.

In digicam communities, digital image processing — especially the operation of debayering (i.e., the reconstruction of full color from monochrome red/green/blue sensor raster pixels through interpolation algorithms) — and special properties believed to exist in obsoleted imaging technology such as CCD camera sensors, takes on speculative, hauntological and spirit—photographic qualities by creating image artifacts that are outside of pictorial representation and embedded in a larger, often fantastical, pop—cultural imaginary, such as the dream of the underground secret base of the Disney animation studio.

¹¹Saguaro, William. Aesthetic Shit. Apple Music, 18 Sept. 2022. music.apple.com, https://music.apple.com/us/album/william-saguaro/1645907228.

¹² "FAQ." Aesthetics Wiki, 30 Jan. 2024, https://aesthetics.fandom.com/wiki/Aesthetics_Wiki:FAQ.
¹³ Ibid.

^{14 &}quot;Frutiger Aero." Aesthetics Wiki, 30 Jan. 2024, https://aesthetics.fandom.com/wiki/Frutiger_Aero.

speculative textures

Working with the apparatus as a speculative device, with its grain, texture, flares (= noise, in Claude Shannon's broad sense), but neither with technical mastery nor romanticism; as subjectivity, but not as the photographic subject; this may be the difference between speculative and experimental photography.

Speculative photography disputes the concept of truth in photography. It rejects both the idea that there can be truth of depiction and or that truth lies in the apparatus or texture of the image.

Truth, in this perspective, never existed, even without ghost photographs; for even the camera obscura was not an instrument of truth, but of illusion. Parmigianino's Self-Portrait in a Convex Mirror (1524) as well as Hans Holbein's Ambassadors (1533) are prototypes of speculative photography in their use of the fisheye lens and anamorphic optical projection. It is the birth of photography through the Mannerist lens, where the "maniera" itself is the optically elongated hand. The "aesthetic" of Fotonight Web (next to 2K1, 2K7, Abstract Tech, Anime New Moon, Bright Tertiaries, Captchacore, Cheiron Crush, Chromecore, Cleancore, Corporate Memphis, Cybercore, Cyber Glacier, Cyberparadism, Cyberprep, Dark Aero, Dollar Store Vernacular, DORFic, Dreamcore, ElectroPop 08, Frutiger Aero, Frutiger Aurora, Frutiger Eco, Frutiger Metro, Funky Seasons, Gamercore, Gen X Soft Club, Glassmorphism, Helvetica Aqua Aero, Hexatron, Holo, Holosexual, Home 2K, Hyperpop, Icepunk, Imaginarium, Indie Sleaze, Liminal Space, McBling, Memphis Design, Minivan Rock, Musica Metro, Neumorphism, Nintencore, Nostalgiacore, Rainbowcore, Renewable Corporate Futurism, Robotcore, Seapunk, Shibuya Punk, , Solarpunk, Superflat Pop, Surf Crush, Technoneko2000, Technozen, Trillwave, Tropical, UrBling, Vaporwave, Vectorbloom, Vectorflourish, Vectorgarden, Weirdcore, Xpiritualism, Zen Tranquility) 15 boils down to a maniera, and so it is a poetics at the same time.

If speculative photography combines structural investigation with the fantastic - making structures fantastic and the fantastic structural - then it is a medium in the most literal sense of the word (much more so than what otherwise is being referred to as "media"):

- the physical medium, in the most literal sense of a physical carrier substance:
- the artistic medium, in the sense of "mediums" such as painting, sculpture and, here, photography;
- · the spiritual medium, as in ghost superstition.

¹⁵List taken from "Frutiger Aero." Aesthetics Wiki, 30 Jan. 2024, https://aesthetics.fandom.com/wiki/Frutiger_Aero.

Speculative photography is photography that becomes fantastic by taking itself too literally; photography as speculative fiction, as mutant epistemology. 16

¹⁶Riffing on Matthew Fuller's definition of "speculative software": "software as science fiction, as mutant epistemology", Fuller, Matthew. Behind the Blip: Software as Culture, New York: Autonomedia (2003), 30.