CRITICAL TERMS FOR MEDIA STUDIES

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J··IMAGE W.J.T. MITCHEI

What is the relation of images and media? It is commonplace to rema (usually with alarm) on the overwhelming number of images that bor bard people who live in modern media cultures, which in an age of glob media means almost all cultures. When a globally significant event curs (war, natural disaster), a "storm of images" sweeps across the plan (to echo a *New York Times*' account of the media coverage of Hurrica:

global television, coupled with the digitization of images, seem to according these storms, heating up the mediasphere and flooding television watchers with "gross and violent stimulants" in the form of images.

The remainder of mass-media culture is devoted to the production of the imagistic equivalent of junk food: instant celebrities, pop starsports heroes, politicians, and pundits, whose "images" are carefully contains the production of the images.

Katrina in September 2005). New technologies such as the Internet as

tivated by publicists and whose misfortunes and personal failings provithe centerpiece for entertaining scandals when the supply of violence catastrophe, and other serious news runs low. As Marshall McLuha noted, the news is always bad, dominated by images of destruction, so row, and grief: "if it bleeds, it leads." But that is merely the sour or sal form of junk food, balancing the sweetness of commercials, which brief good news"—promises of pain relief, beauty, health, and sexual provess (punctuated by ominous warnings about side effects).

When it comes to mass media, then, one seems compelled to agree with the Canon camera commercial in which tennis star Andre Agas asserted that "image is everything." Or with the contrary message, from a later Coca-Cola campaign: that "image is nothing." Or, perhaps, with the deeper truth revealed in an advertisement for Sprite: that "thirst everything." Whatever the truth of images in media might be, then, will have to reckon with their radically contradictory reputation as "energything" and "nothing," the most valuable and powerful elements

the messages transmitted by media, or the most trivial, degraded, as

shipped and banned, created with exquisite artistry and destro boundless ferocity. Images did not have to wait for the arrival of modern mass: acquire this all-or-nothing status. The three great religions of t

absolutely clear on this matter:

Judaism, Christianity, and Islam, agree on two things: that hu ings are created "in the image" of God, and that human being not make images, because human-made images are vain, illusor One should not take the Lord's *name* in vain, but his *image* is in contaminated by vanity and hollowness. The second command

Thou shalt not make unto thee any graven image, or any likene thing that is in heaven above, or that is in the earth beneath, or the water under the earth. Thou shalt not bow down thyself to t

Ingenious commentators through the ages have tried to read ban only on the idolatrous worship of images, not on the produ images more generally. But the language of the commandment It rules out the creation of images of any sort, for any reason. there is a "slippery slope" principle underlying this zero-tolerand a conviction that, sooner or later, images will turn into idols if

serve them. (Exodus 20:4-5, King James Version)

them to be created in the first place.

Clearly the prohibition on graven images has not worked v There may be some aniconic cultures that have succeeded in some kinds of images out of sight (the Taliban are an interesti but most cultures, even officially iconoclastic ones such as Juda

Islam, tolerate innumerable exceptions to the ban (think of the tic portraits of Islamic saints and heroes, from the Ayatollah K to Osama bin Laden).1 And Christianity, with its spectacular rit televangelism, not to mention its encyclopedic repertoire of ic ures—saints, angels, devils—and the central tableau of the Pa

Christ, himself the incarnate "image of God," has long since give real interest in the second commandment. Roman Catholic Chr perfected the art of mass distribution of holy images as ear Middle Ages, creating those forerunners of mass-media spectacl as cathedrals. Cathedrals were sometimes erected, moreover, on

of Greek and Roman temples which had been dedicated to the of pagan idols. Modern, secular, "enlightened" cultures have bee ter when it comes to erection of cult images and sacred icons: T

iconography of paganism and Norse mythology, transforming Germa burghers into Wagnerian gods and goddesses; and in the United State the American flag is routinely treated to rituals of political sanctification All American politicians must drape themselves in the flag or include in their photo opportunities, while enormous amounts of overheat

desecration.

ern mass media and more traditional ways of circulating images to lar bodies of people. The invention of photography, cinema, television, as the Internet has brought about a degree of image saturation in glob culture that was unimaginable in earlier times. This has led a number

rhetoric are expended to head off the (extremely rare) practices of fl

There are important differences between the role of images in mo

scholars to postulate a "pictorial turn" in modern culture, a qualitati shift in the importance of images driven by their quantitative prolifer tion.² First came the mechanical reproduction of images, exemplified, Walter Benjamin argued, by the recording technologies of photograp

and cinema; then electronic communication (Marshall McLuhan's ce tral focus) via "real-time" broadcast and communication media such radio, television, and the Internet; and most recently biocybernetic 1 production. Biocybernetics, the newest technology of image-production in the sphere of what has come to be called "biomedia" (see chapter 8 is exemplified by the production of those "living images" we call clone Cloning has reawakened all the ancient phobias and taboos regarding the creation of images because it seems quite literally to introduce the pro pect of "playing god" by taking over the role of making creatures.

The relation of images to media, then, is a highly sensitive baromet of the history of technology, perhaps because the repertoire of ima types (faces, figures, objects, landscapes, abstract forms) has remain relatively stable even as the technical means of reproducing and circ lating them has been altered radically. The invention of new means image production and reproduction, from the stamping of coins to the

printing press to lithography, photography, film, video, and digital in aging, is often accompanied by a widespread perception that a "pict rial turn" is taking place, often with the prediction of disastrous cons quences for culture. A history of the relation of images and media, the clearly has to be wary of binary narratives that postulate a single decisi transition from "traditional" or "ancient" media to "modern" or "pos modern" forms. The history of media technology suggests that it h

been subject to important innovations from the very beginning, since

ages, freeing them from their muralistic attachment to architec transforming them into movable property, commodities to be ex and sold and copied in the new industry of reproductive engrav invention of artificial perspective produced a new relationship

set printing, electronic tubes, and fiber-optic cables.

image making and empirical sciences such as geometry and sur While technical innovation is a crucial element of media his its relation to images, however, it is not the only factor. Polit nomic, and cultural influences also play a role. Media are not terials or technologies but social institutions like guilds, trades sions, and corporations. The history of mass media in the Unite is very different from that of Europe, despite the fact that both the Atlantic are using much the same technologies—movable

What does seem to remain constant across the cycles of n novation and obsolescence is the problem of the image. The de bivalent relationship between human beings and the images th seems to flare up into crisis at moments of technical innovation a new medium makes possible new kinds of images, often mor and persuasive than ever before, and seemingly more volatile a lent, as if images were dangerous microbes that could infect the of their consumers. This may be why the default position of in orists and media analysts is that of the idol-smashing prophet against Philistines—the exemplary ancient idolaters, since rein in modern kitsch and mass culture. The same critic will, howe cally be engaged in elevating certain kinds of images in selected media to the status of art. Aesthetic status is often credited w deeming effect on the degraded currency of images, as if the in somehow been purified of commercial or ideological contamin its remediation within certain approved media frameworks (art galleries, museums, and prestigious collections). Even a nake mercial image from mass culture can be redeemed in this way, a

I will concentrate on defining the image and its relation to m

screens of Andy Warhol demonstrate. As a critical term in the study of media, however, image has t jected to a more dispassionate analysis, one that brackets the of value at least provisionally. For the remainder of this essay, the

way that will help us to understand why images have the power

First, a definition: An image is a sign or symbol of somethin

such passion.

herent qualities such as color, texture, or shape that are the first things strike our senses—(what Erwin Panofsky called the "pre-iconographi qualities of an image, the things we perceive before we are even co cerned about what the image represents).3 These qualities must elicit

perception of resemblance to something else, so that the object produc a double take: it is what it is (say, a piece of painted canvas), and it is li another thing (a view of an English landscape). Where this likeness or i semblance is to be found, and what exactly it consists in, is often a ma

ter of dispute. Some locate it in specific properties of the object, others the mind of the beholder, while others look for a compromise. Some pl losophers have debunked the entire notion of resemblance as too vag to be the foundation of any referential or significant relationship, sin everything can be said to resemble everything else in some respect other. The perception of resemblance may turn out to be a result of in age making rather than a foundation for it; Picasso famously told a crit who complained that his portrait of Gertrude Stein did not look like he

"Don't worry. It will."

We experience the image as a double moment of appearing and reco nition, the simultaneous noticing of a material object and an apparitio a form or a deformation. An image is always both there and not there, a pearing in or on or as a material object yet also ghostly, spectral, and ev nescent. Although images are almost automatically associated with the representation of objects in space, it is important to recognize that son form of temporality is built in to our encounter with any image: phenor enologists note what we might call the "onset" of an image, the event

its recognition, and the "second look" or double take that Wittgenste called "the dawning of an aspect." An image may also bear other signs temporality—a date of origin or production (central to the ontology photographs), a historical style, a depicted narrative (as in history pair ing), or a labyrinthine interiority that leads the beholder on a pursuit its depths, as when we observe a drawing coming into the world, drawing the drawing coming into the world, drawing coming into the world compared to the w

ing out of invisibility the trace of something that is coming into vie Images often appear in series, as in the Stations of the Cross, which na rate the story of the Passion of Christ and call the spectator to enact ritual performance. And we must not forget that the image has alwa been, even before the invention of cinema, an object that is potential virtually, or actually in motion. The real-time images of a camera obscu move if the objects in them move, and their stillness (like that of we cam or surveillance photos) is nevertheless suffused with time (which

expose contradictory tendencies. They can be representational erential, or "abstract" (a purely geometric circle becomes, with

into it by its creator.

man imagination, perception, and sensory experience is capable ioning for itself as an object of contemplation or distraction.

matic, transparent, or sublime. They can be, in short, anything

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well-placed mark, a face with a smiling mouth). Their range of possibilities extends from the strictly defined shape to the chae

to everyday life. They can rise out of accidental perceptions as we tional acts, so that we see a face in the clouds, or (as Leonardo recommended) look for landscapes and battle scenes in the sp mud thrown against a wall by passing carts. Everything about the relation of images and media, then,

ble, from a geometrically precise design to a Minimalist scatt They can appear as formal, deformed, or informel, a readily stan stereotype or a hideously deformed caricature, a ghostly illusio superstitious or a testable scientific model for the skeptical of They can be found in architecture as well as in pictures. They vide maps of empirical reality, or of Neverlands and utopias.

entire history of dramatic performance is bound up with what called *opsis* (spectacle), *lexis* (words), and *melos* (music). Actors do not represent themselves; they imitate—that is, produce ima characters and actions through costume and gesture in a settir also a scenographic image, because of either the set designer's or the imaginative activity of the spectator (as in Shakespeare's call, from the pit of the Globe Theater, to "imagine yourself in t of France").6 The very first image, in biblical tradition, is a sculpt made of clay that does not remain inert but has life and motion

place or face encountered, a landscape or a body, a ground or a repeatable gesture or "movement image." This is why an image pear in a narrative or poem as well as in a painting, and be reco as "the same" (or at least a similar) image. A Golden Calf, for i can be "remediated," appearing in a text, a painting, and (in it appearance) in a statue. Images (in contrast to "cultural icons" that special or unusual. They are everywhere, a kind of backgrou

So the image is the uncanny content of a medium, the shape it assumes, the thing that makes its appearance in a medium wh ing the medium itself appear as a medium. It remains in men

be achingly beautiful, ugly, monstrous, wondrous, cute, ridiculo

from the standpoint of media studies? Certainly if *memory* is regarded as a medium, then images will be an important element of the context of memory, along with narratives, lyrics, words, and phrases. Whenever we try to give an account of mental images, we seem compelled to resort to some external, material apparatus as the model for the mind—a that ater or cinema, a *musée imaginaire*, a camera obscura, a computer, a camera. We find it difficult to talk about the mind without comparing it to medium of some sort, often a medium that entails the internal display projection, or storage and retrieval of images. It is as if, alongside the inages *in* media, we have images *of* media that we internalize as subjecting pictures of our own mental processes—the mind as photographic apparatus or blank slate, as Freud's "mystic writing tablet," set to receive in

we also routinely speak of them as *mental* things—memories, fantasic dreams, hypnagogic reveries, hallucinations, and other psychologic phenomena that can be accessed only indirectly, through verbal descritions or graphic depictions. What is the status of the "mental imag

ratus or blank slate, as Freud's "mystic writing tablet," set to receive in pressions. In this sense, all images, no matter how public and concretheir staging, are mental things, in the sense that they depend upon cretures with minds to perceive them. (Some images, decoys, for instance reach below the threshold of human consciousness to attract the attetion of animals.)

Of course, in bringing up the mind as a medium for the storage are retrieval of images, one is immediately confronted with the fact that the minds we know about are housed in *bodies*. To speak of mental in ages is automatically to be led into the problem of embodiment, and the material world of sensuous experience, whether it is the generalize "human body" of phenomenology or the historically marked and disciplined body of race, gender, sexual orientation, disability, and biomedical technology (see chapter 2, "Body"). Our pursuit of the image across media seems endless and perhaps circular, beginning in the real work with concrete pictures and representational objects in all manner of media, moving rapidly into the mental lives of the producers and consumers.

ers of these media, then returning to their physical existence in concrecircumstances. From the standpoint of media theory, then, it is perha inevitable that images become the central element of media function the thing that both circulates through all conceivable varieties of media.

as an appearance or communicated content, and emerges from this flin the moment of secondary reflection to provide models for the entiprocess. The image, in other words, is both at the center and the circum

Senses and Signs

ages are unavoidable notions, and they satisfy the same basic d of imagery: they are signs or symbols by way of sensuous reser bundles of analog information carried by different sensory veh ceived by distinct perceptual channels. A sugar substitute doesn "signify" sweetness but awakens the sensation we associate wi When Nutrasweet learns to simulate the granular, crystalline ance of sugar as well as its taste on the tongue, it will be a m fect icon. Algebraic notations such as "equals," "is congruent w "is similar to" are, as Peirce noted, icons in the sense that the highly abstract relation of resemblance or equivalence immedia ible. When the channels or senses are crossed or confused, we "synesthetic" images, colors heard as sounds or vice versa. The vocabulary of music invokes visual and graphic analogies such line, and gesture, and verbal "echoes," assonance, alliteration, ar mic figures and rhymes are fundamental to the way that aura arise in the sound of words. Returning to the default, it is a commonplace in media st use phrases like "visual media" or "visual art" to mean roughly

The default meaning of image is "visual image," though that ver suggests that images can be apprehended by, and addressed t nonvisual senses. Acoustic, tactile, gustatory, and even olfac

Returning to the default, it is a commonplace in media st use phrases like "visual media" or "visual art" to mean roughly thing: forms such as painting, photography, sculpture, cinema, vision that are treated as fundamentally addressed to the eye. I commonly distinguished from "verbal media"—literature, book papers (the "print" media)—the distinction almost invariably a nied by ritual lamentation over the decline of literacy and the ment of reading by spectatorship. But a moment's reflection that the situation is not quite so simple. First, all the example sual media," and especially the mass media, turn out to be mixthat combine visual and acoustic images, sights and sounds, pict

words. Second, the so-called print media have, from their beginn cluded printed *pictures* and other graphic images. Moreover, pri as a material medium, is taken in by the eyes. The choice of typ font is itself a choice about the "look" of a text. Marshall McL mously argued that the Gutenberg revolution was the transform a previously oral culture into a visual culture. The linear process

ing two quite different distinctions, one involving semiotics (the class fication of signs) and the other involving the senses. On the terrain signs, the difference between the verbal and visual is the difference between what Peirce would call a symbol, an arbitrary and convention sign, and an iconic sign, which signifies by virtue of its sensuous reserblance to what it stands for. Most examples of print media (say, newsp

pers and magazines) deploy both words—verbal signs that are to be reas arbitrary symbols—and visual images, iconic signs that are scann

On the terrain of the senses, by contrast, the verbal/visual distinction

for their resemblance to things in the world.

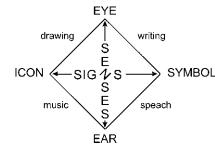
is that between hearing and seeing, speaking and showing, oral and sual communication. The distinction between signs and codes fades in the background; icons and symbols can appear on *either* side of the cyide. Conventional, arbitrary symbols can be addressed to the eye or the ear, as can iconic signs. Media based in "visual images" comprise the full range of print culture, and media based in "acoustic images" cross the boundaries of speech and music. The figure below will clarify the intersection of the double distinction between signs and senses that underlied

the often confusing categories of verbal and visual media.8

The Digital Image

No account of the image in media studies would be complete witho some discussion of the "digital image." Some scholars have argued the arrival of computer-processed images has produced a radical transformation in the ontology of the image, altering its fundamental essen as an object of human experience. One line of thinking holds that digital images (in contrast to traditional, chemical-based photographs) has

lost their causal, indexical linkage to "the real," becoming untethered a



a "posthuman" order. If man was created in God's image and

surface appearance or "eyewash," to use Friedrich Kittler's term important and real are the ones and zeros of the binary code. Ur ingly, this argument is often accompanied by a dark, dystopian

in the world"—the changed conditions of their production and tion, the exponential increase in the number of images, and the of their transmission, especially via the Internet.

Another, even more radical claim for the novelty of the digit it has rendered the image "in its traditional sense" obsolete. The recoded as pure numerical information, is, in principle, quite dent of the human body and its senses. The sensuous "firstnes image and its reliance on the analog code of infinitely different pressions and similitudes is replaced by a language that is read (a ten) by machines. The old regime of sensuous images is reduced

remade in man's, with the onset of secular humanism, it make of sense that the invention of artificial intelligence and "thinl chines" would mark the end of the human and the image altoget posthuman imaginary postulates robots and cyborgs—biome

ries within it the image of the human hand, is interesting in to the fingers figured in digital.) If we confine the question to tory of photography, it seems clear that both the profilmic even dark-room process have always been manipulable, if not with and rapidity provided by programs such as Photoshop. Nonethe ital images, like the photographs of torture at Abu Ghraib prise to retain their credibility. In general, we might say that claims photograph's connection to "the real" are heavily dependent up precisely counts as the relevant notion of the real, and upon a circumstances, such as who took the picture when. Photograph taken "on faith" in a courtroom: their veracity must be vouched secondary testimony and human witnesses. The aura of self-

that hovers about images in any medium, their sensuous pre "firstness" (to recall Peirce's terminology), can lend them an e ibility that may be the occasion for a sense of their faithfulne real, or (for the very same reason) can make them objects of sus digitization has produced a change in the ontology of images, then, be more plausibly sought in the changed conditions of the

hybrids—as the emergent life-forms of our time. "Man" and ' have become obsolete categories—stereotyped image classes placed, one hopes, by actually existing men and women.

tivity between the beholder and the image that was unavailable to tr ditional images: one can "click" on a hot spot in a digital image and to another one, or change the look of the image, or open up a textu gloss, or even (in Lev Manovich's concept of the "image-interface" as the "image-instrument") treat the image as a control panel for the m nipulation of information. Yet interactivity and immersion have befeatures of image culture at least since Plato's cave or the invention carnival. As for the obsolescence of the analog image, one cannot he but notice that, at the precise moment when a stream of alphanumer ciphers is unveiled as the deep truth of the digital "matrix" in the fil by that title, the digits align themselves into the analog human shap of the "agents" of the Matrix. All the counting and calculation and cor putation that underlies the digital image comes home to roost, final in what Brian Massumi has called "the superiority of the analog." If the

novels (both traditional genres).9 The numerical or "digital infrastru ture" beneath the "eyewash" of analog experience remains the provin of technicians, not ordinary users, who treat digital images in much ti same way as analog images (except easier to copy and distribute). It sometimes claimed that digitization introduces a component of intera

traditional habits of the human sensorium, it is unlikely that the digit revolution would have gained any traction at all. This is not to argue that, when it comes to images, there is nothing

new under the sun. But whatever this newness is, it will not likely well described by a binary history that separates the digital image fro all that proceeded it. For one thing, the very idea of the digital is as biguous. Nelson Goodman argued that what makes a code digital is n

numbers or counting but the use of a finite number of characters or el ments, differentiated without ambiguity from one another. The alph bet, under this definition, is digital. Mosaic tile would count as a digital medium, as would the benday dots of newspaper images. But if digitiz tion is confined to systems using numbers, and specifically to the bina system that underlies computer processes, then something of the spe ficity of contemporary digital imaging may be discerned. Mark Hanse

ones and zeros did not add up to an image that massages the familiar a

it is not simply that the image provides a tool for the user to control t

argues, contra Manovich, that

"infoscape" of contemporary material culture . . . but rather that t "image" has itself become a process and, as such, has become irredu digital imaging, in the sense of binary computation. Just as p phy revealed unseen and overlooked visual realities, an "optical

seen extrapolations.

If researchers like Paul Virilio and Friedrich Kittler are correct, not understand stereophonic sound without considering the apparatus developed to allow bomber pilots to fly "blind" in a movie camera without considering its evolution from the mach

scious" in Walter Benjamin's phrase, and just as cinema produ a new analysis and a historical transformation of human visua ence, digital imaging may be uncovering yet another layer of the tible cognitive world that we will recognize as having always be We know that the most archaic images have always involved "a

. . . bound up with the activity of the body," that they have always form to information. But now we are in a position, thanks to the

tion of digital imaging, to know it in a new way. Our situation

cess through which the body, in conjunction with the various app for rendering information perceptible, gives form to or in-for mation. In sum, the image can no longer be restricted to the lev face appearance, but must be extended to encompass the entir by which information is made perceivable through embodied ex This is what I propose to call the digital image. (Hansen 2004, 10

I would agree with everything in this passage except for the ten predicates; the image, I would suggest, has always been bound the body, but that interconnection is now made evident by the

very like that of Alberti, who understood that artists had alread how to represent depth, foreshortening, and other practical equ of perspective, but whose treatise, Della Pittura, made these pra cessible in a new way to systematic, mathematical analysis and

New technical media certainly do make for new possibilities production, distribution, and consumption of images, not to their qualitative appearance. Artists, as Marshall McLuhan o are often at the forefront of experimentation with the potentia

media, and earlier media innovations such as photography and which were widely regarded as inherently hostile to artistic exp are now firmly canonized as artistic media of the first importa media innovation is driven by other factors as well: by technos research, by the profit motive, and by emergency situations suc

or the Internet without considering it origins in military com-

vocation as a means to mediate the image of realistic acoustical space, the sound of an orchestra in a concert hall. The staccato shots of the machin gun become the photographic shots that together form a "movemer image" of the human body in action (or a "time-image" of a body d ing nothing at all, as with the still images that convey the story in Chi Marker's classic film *La Jetée*). The Internet becomes a metamedium th

incorporates the postal system, television, computer programming, the telephone, newspapers, magazines, bulletin boards, advertising, ban ing, and gossip. Images continue to arise and circulate in these new m dia, metastasizing and evolving so rapidly that no conceivable archi could ever contain them all.

It seems unlikely, then, that any new technology is going to rend images, or sensuous firstnesses, resemblances, or analog codes, obs lete. The persistence of these qualities is what ensures that, no matt how calculable or measurable images become, they will maintain the u canny, ambiguous character that has from the first made them objects fascination and anxiety. We will never be done with asking what imag

mean, what effects they have on us, and what they want from us.

Notes

1. See Bland (2000) on the role of images in Jewish culture.

The icon in Peirce's sense is merely a sign by resemblance.

- 2. See Boehm and Mitchell (2009), Mirzoeff (2000).
- 3. Peirce's icon should not be confused with what we have been calling "cultural icon which are images that have a special importance (religious icons, idols, patriotic symbol
- 4. See Nelson Goodman, The Languages of Art, for the most sustained critique of the not of resemblance as a basis for representation.
- 5. Wittgenstein, Philosophical Investigations.
- 6. Henry IV, Part I, Prologue.
- 7. See Jay David Boulter and Richard Grusin, Remediation: Understanding New Media (Ca

- bridge, MA: MIT Press, 2000).
- - 8. I have confined this discussion of sensory modalities to the eye and ear, what Hegel call
- "the theoretic senses." A fuller analysis would suggest that the proper categories are i eye and ear but the scopic and vocative drives, which combine eye/hand and ear/mouth
- would also note that vision itself is constituted as the coordination of optical and tactile se
- sations. We could not see anything if our sensory-motor system had not learned to naviga
 - the world by moving through and touching it. See my article "There Are No Visual Media," Media Art Histories, ed. Oliver Grau (Cambridge, MA: MIT Press, 2007), 395-406. 9. Similarly, the hyperbolic rhetoric surrounding the invention of new, immersive 3-D i

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