

# The Technological Simulacra: On the Edge of Reality and Illusion

*Dr. Lawrence Terlizzese says that our addiction to technology is heading toward the opposite of the life we want.*

## What Saccharine is to Sugar, or The Technological Simulacra: On the Edge of Reality and Illusion

"Anyone wishing to save humanity today must first of all save the word."[\[1\]](#) – Jacques Ellul

### Simulacra

Aerosmith sings a familiar tune:

*"There's something wrong with the world today,  
I don't know what it is,  
there's something wrong with our eyes,  
we're seeing things in a different way  
and God knows it ain't [isn't] his;  
there's melt down in the sky. We're living on the edge."*[\[2\]](#)

What saccharine is to sugar, so the technological simulacra is to nature or reality—a technological replacement, purporting itself to be better than the original, more real than reality, sweeter than sugar: hypersugar.



This  
article  
without  
footnotes

*Simulacra*, (*Simulacrum*, Latin, pl., *likeness, image, to simulate*): or simulation, the term, was adapted by French social philosopher Jean Baudrillard (1929-2007) to express his critical interpretation of the technological transformation of reality into hyperreality. Baudrillard's social critique provided the premise for the movie *The Matrix* (1999). However, he was made famous for declaring that the Gulf War never happened; TV wars are not a reflection of reality but projections (recreations) of the TV medium.[\[3\]](#)

Simulacra reduces reality to its lowest point or one-dimension and then recreates reality through attributing the highest qualities to it, like snapshots from family vacation. When primitive people refuse to have their picture taken because they are afraid that the camera steals their souls, they are resisting simulacra. The camera snaps a picture and recreates the image on paper or a digital medium; it then goes to a photo album or a profile page. Video highlights amount to the same thing in moving images; from three dimensions, the camera reduces its object to soulless one-dimensional fabrication.[\[4\]](#)

Simulacra does not end with the apparent benign pleasures of family vacation and media, although media represents its most recent stage.[\[5\]](#) Simulacra includes the entire technological environment or complex, its infrastructure, which acts as a false "second nature"[\[6\]](#) superimposed over the natural world, replacing it with a hyperreal one, marvelously illustrated in the movie *Terminator 2: Judgment Day* (1991). As liquid metal conforms itself to everything it touches, it destroys the original.[\[7\]](#)

Humanity gradually replaces itself through recreation of human nature by technological enhancements, making the human race more adaptable to machine existence, ultimately for the purpose of space exploration. Transhumanists believe that through the advancements in genetic engineering, neuropharmaceuticals (experimental drugs), bionics, and

artificial intelligence it will redesign the human condition in order to achieve immortality. "Humanity+," as Transhumanists say, will usher humanity into a higher state of being, a technological stairway to heaven, "glorification," "divinization" or "ascendency" in theological terms.{8}

God made man in his own image and now mankind remakes himself in the image of his greatest creation (image), the computer. If God's perfection is represented by the number seven and man's imperfection by the number six, then the Cyborg will be a five according to the descending order of being; the creature is never equal or greater than the creator but always a little lower.{9}

Glorious Reduction!{10}

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## Hyperreality

An old tape recording commercial used to say, "Is it real or is it Memorex?" By championing the superiority of recording to live performance the commercial creates hyperreality, a reproduction of an original that appears more real than reality, a replacement for reality with a reconstructed one, purported to be better than the original.

Disneyland serves as an excellent example by creating a copy of reality remade in order to substitute for reality; it confuses reality with an illusion that appears real, "more real than real." {11} Disney anesthetizes the imagination, numbing it against reality, leaving spectators with a false or fake impression. Main Street plays off an idealized past. The technological reconstruction leads us to believe that the illusion "can give us more reality than nature can." {12}

Hyperreality reflects a media dominated society where "signs

and symbols" no longer reflect reality but are manipulated by their users to mean *whatever*. Signs recreate reality to achieve the opposite effect (metastasis){13}; for example, in Dallas I must travel west on Mockingbird Lane in order to go to East Mockingbird Lane. Or, Facebook invites social participation when no actual face to face conversation takes place.{14}

Hyperreality creates a false perception of reality, the glorification of reduction that confuses fantasy for reality, a proxy reality that imitates the lives of movie and TV characters for real life. When reel life in media becomes real life outside media we have entered the high definition, misty region—the Netherlands of concrete imagination—hyperreality!{15}

Hyperreality goes beyond escapism or simply "just entertainment." If that was all there was to it, there would be no deception or confusion, at best a trivial waste of time and money. Hyperreality is getting lost in the pleasures of escapism and confusing the fantasy world for the real one, believing that fantasy is real or even better than reality. Hyperreality results in the total inversion of society through technological sleight of hand, a cunning trick, a sorcerer's illusion transforming the world into a negative of itself, into its opposite, then calling it progress.

Hyperreality plays a trick on the mind, a self-induced hypnotism on a mass scale, duping us by our technological recreation into accepting a false reality as truth. Like Cypher from the movie *The Matrix* who chose the easy and pleasant simulated reality over the harsh conditions of the "desert of the real" in humanity's fictional war against the computer, he chose to believe a lie instead of the truth.{16}

# The Devil is a Liar

A lie plays a trick on the mind, skillfully crafted to deceive through partial omission or concealment of the truth. The lie is the devil's (devil means liar) only weapon, always made from a position of inferiority and weakness (Revelation 20:3, 8). A lie never stands on its own terms as equal to truth; it does not exist apart from twisting (recreating) truth. A lie never contradicts the truth by standing in opposition to it.

A lie is not a negative (no) or a positive (yes), but obscures one or the other. It adds by revealing what is not there—it subtracts by concealing what is there. A lie appears to be what is not and hides what it really is. “Satan disguises himself as an angel of light” (2 Corinthians 11:14).

A lie does not negate (contradict) or affirm truth. Negation (No) establishes affirmation (Yes). Biblically speaking, the no comes before the yes—the cross then the resurrection; law first, grace second. The Law is no to sin (disobedience); the Gospel is yes to faith (obedience). Truth is always a synthesis or combination between God's no in judgment on sin and His yes in grace through faith in Jesus Christ. “For the Law was given through Moses; grace and truth were realized through Jesus Christ” (John 1:17). Law without grace is legalism; grace without law is license.{17}

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The devil's lie adds doubt to the promise of God; “Indeed, has God said, ‘you shall not eat from any tree of the garden’?” (Genesis 3:1 NASB) It hides the promise of certain death; “You surely will not die” (Genesis 3:4). The serpent twists knowledge into doubt by turning God's imperative, “Don't eat!” into a satanic question “Don't eat?”{18}

But it is Eve who recreates the lie in her own imagination.

“When the woman saw that the tree was good for food, and that it was a delight to the eyes, and that the tree was desirable to make one wise, she took from its fruit and ate; and she gave also to her husband with her, and he ate” (Genesis 3:6).[{19}](#)

Sight incites desire. We want what we see (temptation). Eve was tempted by “the lust of the eyes” (1 John 2:16) after seeing the fruit, then believed the false promise that it would make her wise. “She sees; she no longer hears a word to know what is good, bad or true.”[{20}](#) Eve fell victim to her own idolatrous faith in hyperreality that departed from the simple trust in God’s word.[{21}](#)

## The Void Machine

Media (television, cell phone, internet, telecommunications) is a void machine.[{22}](#) In the presence of a traditional social milieu, such as family, church or school, it will destroy its host, and then reconstruct it in its own hyperreal image (Simulacra). Telecommunication technology is a Trojan Horse for all traditional institutions that accept it as pivotal to their “progress,” except prison or jail.[{23}](#) The purpose of all institutions is the promotion of values or social norms, impossible through the online medium.

Media at first appears beneficial, but this technology transforms the institution and user into a glorified version of itself. The personal computer, for example, imparts values not consistent with the mission of church or school, which is to bring people together in mutual support around a common goal or belief for learning and spiritual growth (community). This is done primarily through making friends and forming meaningful relationships, quite simply by people talking to each other. Values and social norms are only as good as the people we learn them from. Values must be embodied in order to be transmitted to the next generation.[{24}](#)

Talking as the major form of personal communication is disappearing. Professor of Communications John L. Locke noted that "Intimate talking, the social call of humans, is on the endangered species list."[{25}](#) People prefer to text, or phone.[{26}](#) Regrettably, educational institutions such as high schools and universities are rapidly losing their relevance as traditional socializing agents where young people would find a potential partner through like interests or learn a worldview from a mentor. What may be gained in convenience, accessibility or data acquisition for the online student is lost in terms of the social bonds necessary for personal ownership of knowledge, discipline and character development.[{27}](#)

An electronic community is not a traditional community of persons who meet face to face, in person, in the flesh where they establish personal presence. Modern communication technologies positively destroy human presence. What philosopher Martin Heidegger called *Dasein*, "being there," (embodiment or incarnation) is absent.[{28}](#) As Woody Allen put it, "90 percent of life is showing up."[{29}](#) The presence of absence marks the use of all electronic communication technology. Ellul argued, "The simple fact that I carry a camera [cell phone] prevents me from grasping everything in an overall perception."[{30}](#) The camera like the cell phone preoccupies its users, creating distance between himself and friends. The cellphone robs the soul from its users, who must exchange personal presence for absence; the body is there tapping away, but not the soul! The cell phone user has become a void![{31}](#)

## The Power of Negative Thinking

According to popular American motivational speakers, the key to unlimited worldly wealth, success and happiness is in the power of positive thinking that unleashes our full potential; however, according to obscure French social critics the key to

a meaningful life, lived in freedom, hope and individual dignity is in the power of negative thinking that brings limits, boundaries, direction and purpose.

Negativity gives birth to freedom, expanding our spiritual horizons with possibilities and wise choices, which grounds faith, hope and love in absolute truth, giving us self-definition greater than our circumstances, greater than reality of the senses. To freely choose in love one's own path, identity and destiny is the essence of individual dignity.

According to French social critics Jacques Ellul and Herbert Marcuse, freedom is only established in negation that provides limits and boundaries, which tells us who we are. Technological hyperreality removes all natural and traditional limits in the recreation of humanity in the image of the cyborg. The transhuman transformation promises limitless potential at the expense of individual freedom, personal identity and ultimately human dignity and survival.

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All limitless behavior ends in self-destruction. Human extinction looms over the technological future, like the Sword of Damocles, threatening humanity's attempt to refit itself for immortality in a grand explosion (nuclear war), a slow poisoning (ecocide) or suicidal regressive technological replacement. Stephen Hawking noted recently that technological progress threatens humanity's survival with nuclear war, global warming, artificial intelligence and genetic engineering over the course of the next 100 years. Hawking stated, "We are not going to stop making progress, or reverse it, so we must [recognize] the dangers and control them." [\[32\]](#)

In asserting "NO!" to unlimited technological advance and establishing personal and communal limits to our use of all



technology, especially the cell phone, computer and TV, we free ourselves from the technological necessity darkening our future through paralyzing the will to resist.{33}

After we “JUST SAY NO!”{34} to our technological addictions, for instance, after a sabbatical fast on Sunday when the whole family turns off their electronic devices, and get reacquainted, a new birth of freedom will open before us teeming with possibilities. We will face unmediated reality in ourselves and family with a renewed hope that by changing our personal worlds for one day simply by pushing the off button on media technology we can change the future. Through a weekly media fast (negation) we will grow faith in the power of self-control by proving that we can live more abundant lives without what we once feared absolute necessity, inevitable and irresistible. “All things are possible with God” (Mark 10: 27). When we exchange our fear of idols for faith in the Living God the impossible becomes possible and our unlimited potential is released that will change the world forever!{35}

I see trees of green, red roses, too,  
I see them bloom, for me and you  
And I think to myself  
What a wonderful world.

I see skies of blue, and clouds of white,  
The bright blessed day, the dark sacred night  
And I think to myself  
What a wonderful world.

The colors of the rainbow, so pretty in the sky,  
Are also on the faces of people going by.  
I see friends shaking hands, sayin', “How do you do?”  
They’re really sayin’, “I love you.”

I hear babies cryin’. I watch them grow.  
They’ll learn much more than I’ll ever know  
And I think to myself

What a wonderful world.{36}

"[I]f man does not pull himself together and assert himself . . . then things will go the way I describe [cyborg condition]." – Jacques Ellul{37}

## Notes

1. Jacques Ellul, *The Humiliation of the Word* (Grand Rapids: Eerdmans, 1985), vii.

2. Aerosmith, *Eat the Rich*, "Livin' on the Edge," Sony, 1993.

3. The same is true of the game last night—I caught the highlights on ESPN—no difference really—it never happened! The Presidential debates, my Facebook page, 911, televangelism, the online (electric) church: all reproductions, all exist at the level of Santa Claus in a dreamy, surreal world not really real: hyperreal, really!

4. French social critic Herbert Marcuse (1898-1979) described dimensional reduction in human nature through the process of "mimesis" very similar to Baudrillard's conception of *simulacra* (technological simulation) and Ellul's *la technique* (technological order). *Mimesis* eradicates all protest and opposition to the prevailing technological normalcy and silences all conscientious objections to the obvious or self-evident benefits (taken for granted) and blessings of technological progress. Like a frontal lobotomy when a section of the brain is removed that leaves all necessary automatic biological functions but removes the capacity to higher critical thinking, effectively silencing all differences, removing unique personality, individuality, and private space. The person is reduced to *one dimension* without the critical higher thought process or skills. *Mimesis* or mimicry transcends the adjustment phase to new technology known as *Future Shock* and brings the population into a direct and immediate relationship with the technological environment comparable to prehistoric and primitive cultures in their

relationship to their natural milieus, climates and habitats. Mimesis replaces the traditional social environment with a technological one, an imitation or mimicry (simulacra). Mimesis removes the ability to feel alienation. Through reduction of the individual to a cell (atomization) in the social body, one never feels out of place, discomfort or disease, etc., because there is no longer any sense of individuality or difference. Anesthetizing the soul kills the pain of maladjustment to modernity leaving all feelings alike; joy is indistinguishable from hate. What do people feel after a lobotomy? They feel nothing, *comfortably numb* describes postmodern sentimentality.

Mimesis reduces the population to impulsive consumers. Material goods tie us to the system. "People recognize themselves in their commodities; they find their soul in their automobile, hi-fi set, split-level home, kitchen equipment. The very mechanism which ties the individual to his society has changed and social control is anchored in the new needs it has produced" (Herbert Marcuse, *One-Dimensional Man: Studies in Advanced Industrial Society* [Boston: Beacon Press, 1964], 9). People are in love with their technology. Consumer objects express passion and spirituality; "For example, cars are not simply neutral transportation objects but beloved expressions of soul." Their self-image is locked in the kind of cars they drive, houses they live in: "From teen dreaming about a hot set of wheels to the self-imagined sophisticate, it is image that dictates our purchase . . . Most of us can't imagine why anyone would buy a Hummer except to flaunt his financial ability to conspicuously consume . . . . Anyone who doubts the role of image needs only drive a rust bucket" (Lee Worth Bailey, *The Enchantments of Technology* [Chicago: University of Illinois Press, 2005], 7). "Image is everything!" Modern technological materialism has become the antithesis of the Christian way of life. Jesus said, "A man's life does not consist in the abundance of his possessions" (Luke 12:15).

## 5. Orders of Simulacra:

Renaissance: Copies of Original

Industrial: Mass Production of Original

Hyperreality: Recreation of Original

Metastasis: Reverse effects of the hyperreal stage of simulacra proliferate, comparable to the spread of cancerous tissue. "Metastasis: the transfer of disease from one organ or part to another not directly connected with it" (Benjamin F. Miller and Claire Brackman Keane *Encyclopedia and Dictionary of Medicine and Nursing* [Philadelphia: Saunders, 1972]). Hyperreality "more real than real" purports to be a technological improvement on nature and "the signs and symbols," (language) and institutions of traditional society, "better than real;" however, despite the apparent success of the hyperreal stage to deliver on its promise of improvement or "progress," opposite results threaten social stability. Disneyland gets boring. Media technology isolates people rather than bringing them together. Social media turns out to be anti-social. The automobile extends the commute to work. The computer increases the average work load and illiteracy, reduces jobs, depersonalizes individuals, kills privacy, creates universal surveillance, makes pornography and depictions of violence readily accessible to children. The cell phone is actually an excellent bomb detonating device. The computer atrophies human intelligence, logic, and thinking (creative and problem solving skills); through societal dependence on the computer people have forgotten how to think for themselves, and solve problems in any other way. The computer is not a simple tool used to organize knowledge, making it readily accessible, but as the centralizing technology through the digitalization process it recreates the world in its own image. Instead of happiness, the technological order is producing mass neurosis evident in the increase in depression, anxiety, attention deficit disorder,

anorexia, bulimia, suicide and the mass inability to differentiate between reality and illusion.

Metastasis in the Orders of Simulacra according to Baudrillard also reflects Jacques Ellul's critical technological analysis in his assertion of the law of diminishing returns (law of reverse effects), *The Technological Bluff* (Grand Rapids: Eerdmans, 1990). Once the threshold of reversal in technological progress is reached, a saturation point, beyond which any further advance is completely unnecessary (and thus further progress despite mass optimism) will produce reverse or opposite effects than intended. The technological threshold is reached when new technology is imposed on the population which was unnecessary prior to its invention. When necessity for a new technology appears after its invention the threshold of beneficial effects inverts and harmful consequences, side effects—intended or not—rapidly multiply. There is no use or felt needs for much of the technology developed in the 20th century; TV, computer, jet engine, rockets, atom bomb, cell phone, innumerable widgets and gadgets, so use is found and need artificially created. People have no felt need for a technology that does not yet exist. When useless technology is developed for its own sake (knowledge for knowledge's sake), rather than liberation it displaces *the good of mankind to the glory of God* as its object or *telos* and becomes an end in itself. The general population never asks for new technology; rather, technology is developed according to the technological imperative—whatever can be done should be done. Its beneficial use is unquestionably assumed and its use promoted through mass advertising and commercials (technological propaganda), and in short order a new necessity is added to the litany of technological requirements. As the list of “must haves” and “can't live without” grows in order to keep pace with the tempo of modern life, *users* voluntarily surrender their freedom for self-imposed technological necessity, blissfully unaware of any potential side-effects or untoward consequences.

The technological condition may be compared to generational slavery. Those born into servitude accept it as normal. The "happy slave" remains so through refusal to recognize his condition as "slave." He embraces the world as he finds it with all his material needs and appetites satiated. There is no reason to protest, compounded by the fact that he has no ability to do so. A slave will always remain a slave until he recognizes that he is a slave. And without an intellectual horizon to lift him above his condition as a real possibility he will forever remain a slave. The first step to freedom for the slave is to recognize his condition of slavery and the possibility of a different way of life through self-determination, but that is impossible without a degree of abstract analysis and a measure of critical reason. Comparatively, technological determinism imposes its frightful inescapable necessity as a natural order without a meaningful future beyond the present way of life. In stripping society of critical ability to reason and negate that order from a metaphysical view, humanity has lost its only absolute reference point outside its own limited existence and above its concrete situation from which to criticize technology and bring it under ethical control and moral limitation. God is greater than any technological idol made by human hands and provides an immovable ground from which humanity can reassert control, but mankind's Creator, Savior and Helper does him no good if he does not believe in his power or worse confuses it with the status quo, so that the apocalyptic power of God's confrontational judgment that leveled Babel (Genesis 11), Egypt (Exodus), Jerusalem and Rome is convoluted through blessing the technological utopia as *New Atlantis*.

The idolization of technology follows in the wake of modern science and rationalism but has a dehumanizing effect rather than amelioration. New technology brings new necessity and demands rather than freedom that exacts its price from humanity and nature, resulting in a much more complicated and dangerous world. The Apostle Paul stated that if we have food

and shelter we should be content (1 Timothy 6:8). The accumulation of material things beyond meeting basic needs becomes a new burden, an added necessity not there before, resulting in bondage not freedom. People are owned by their possessions, must work harder for their technology and have been reduced to cogs in the wheel of progress rather than individuals with inherent value made in the image of God. From electricity, to phones, appliances to automobiles to computers, cell phones, *ad infinitum*, *ad nauseam* each new technology begins with the promises of convenience and improving modern life by making it faster, then through habitual use it becomes necessary, eventually addictive. From the basic material needs of food and shelter modern life has added dishwashers, microwave ovens, vacuum cleaners, TVs, cars, computers and most recently the cell phone as necessary for life in modern times. The devaluation of human life pays for the technology that is developed for the sake of expanding the frontiers of knowledge and exploration rather than creating the condition of freedom. Human freedom is lost with each new artificial technical necessity, resulting in an increasingly nihilistic society; where power increases, choice is lost, resulting in increased meaninglessness. Nihilistic sentiment develops along with technological power; "*We know that power always destroys values and meaning . . . Where power augments indefinitely there is less and less meaning*" (Jacques Ellul, *Perspectives on Our Age* [New York: Seabury, 1981], 45). Technological necessity proliferates along with technological power over nature, reducing the scope of available choices, options or way of life that differs from those ensnared in the modern mechanized mainstream. What possibilities for a decent way of life are open to those who own neither car nor home, do not use a cell phone or computer, or possess at least a college degree? How *successful* will any corporate organization, church, school or business be if it does not use modern communication technology, radio, TV, computer or advertising techniques (propaganda) to promote its cause or product? As the world conforms itself to

technological necessity, "you must get a cell phone and use a computer or risk getting left behind," it loses touch with the reality outside these devices, which is reduced and recreated online. For example, the traditional "church service" where believers join together in the unity of faith around the communion table as community and family becomes the embarrassing forgery of a lone spectator in front of a one dimensional monitor.

6. Paul Tillich, *The Spiritual Situation in Our Technical Society* (Macon, GA: University Press, 1988), 7. "Tillich describes the creation of a 'second nature' that results from science's attempt to control nature. Second nature in turn subjects man to the same domination he wishes to exert over nature, making himself subject to the very thing he had created to liberate him" (Lawrence J. Terlizze, *Trajectory of the 21st Century: Essays on Theology and Technology* [Eugene, OR: Resource Publications, 2009, 155]).

7. Baudrillard's description of Simulacra is reminiscence of Herbert Marcuse's depiction of "Mimesis" in *One-Dimensional Man*. Mimesis: the total identification of the individual with technological environment that mimics, apes or imitates historical social conditions, for example the city replaces nature, the automobile replaces the horse and carriage, TV replaces the family hearth, social media substitutes for personal relationships. [Muk-bang](#) replaces family members at the dinner table, traditional institutions that requires a personal presence, school and church, are rapidly transferring to the online medium. Likewise Jacques Ellul in *The Technological Society* describes technological advancement or "la technique" as creating a new environment, one that overlays both the natural and historical social environments with an urban/industrial/digital one.

8. Braden Allenby and Daniel Sarewitz, *The Techno-Human Condition* (Cambridge, MA: MIT Press, 2011), 1-13; *Humans Need Not Apply*, CGP Grey, 2014. The Transhuman Transformation is



the ultimate in works salvation that lifts humanity to the next stage in evolutionary development through technological immortality or digitalized godhood that replaces all his physical corruptions with artificial replacements in the simulated heaven of a computer server. The computer does not dominate the will of humanity, enforcing universal peace through fear of annihilation as in the movie *Colossus: The Forbin Project* (1970), but assimilates humanity digitally and recreates it in its own image or highest ideal. The robots are not taking over, rather humanity is surrendering its will and decisions to the computer in tired resignation of life which has become too difficult by its own design.

9. "O LORD . . . What is man that you are mindful of him or the son of man that you visit him? For you have made him a little lower than the angels and crowned him with glory and honor" (Psalm 8:4, 5). "Angels," Elohim (God) in Psalm 8:5 refers to the divine visitation (theophany) mentioned in verse 4, the Angel of The LORD, i.e., Genesis 18; 19; 22:15; 32:24-32; Exodus 12:12, 13. Humanity was made highest in God's created order, below the creator and above the angelic host in the chain of being; "Don't you know you will judge angels?" (1 Corinthians 6:3). Angels are "ministering spirits sent to minister to the heirs of salvation" (Hebrews 1:14).

10. We are not saying one cannot reduce a complicated argument, book, movie etc., to its main points in outline form. We are saying that reduction does not replace the original, as somehow "better." A well-done outline does not alleviate the audience's responsibility to discover for itself, to pick up and read, but will inspire the audience to do so. Reading Calvin's *Institutes*, or Augustine's *City of God* or Thomas' *Summa Theologica* in PowerPoint or Cliff Notes is comparable to watching the Super Bowl in highlights instead of in its entirety from kickoff.

The proliferation of the digital camera as appendage to the cell phone has created the absurd phenomenon of reduction of

reduction in the class room. As the PowerPoint slide has allowed professors to reduce all learning to three pertinent bullet points per slide, so students have followed their cue in picturing the text (taking a picture of the slide). Instead of suffering the laborious and tedious task of jotting down a simple outline in a note book, a helpful mnemonic practice, they take a picture of it, reducing the slide to digital acknowledgement and temporary storage before deletion, in order to make room for the pictures of tomorrow night's Harry Potter costume gala. Education isn't what it used to be, it just isn't!

11. Jean Baudrillard, *Simulacra and Simulation*, 166 ff.

12. Umberto Eco, *Travels in Hyperreality* (New York: HBJ, 1986), 43.

13. The projections of visual media may have their origins in "the desert of the real" as Baudrillard puts it, but what the spectator sees on his screen, monitor or photograph should not be confused with "reality," but recreated reality mediated through an electronic medium. Marshall McLuhan's famous maxim for media analysis, "The medium is the message," undergirds this critical understanding of media technology. Any fan of live entertainment or sports knows immediately that TV broadcast of a live venue is an entirely different event than being there live behind home plate or on the fifty yard line. Preference for the surreal, sterilized, cartoonish, Apollonian images on TV and in film, rather than seeing the actual blots, blemishes and facial scars of people, perspiring athletes or hearing the crack of the bat is not the central moral issue, which does not come down to preferences, which are already conditioned by excessive media exposure at an early age. The failure to distinguish between reality and hyperreality constitutes the greatest dangers of the technological simulacra. When the general audience mistakes or confuses the hyperreal for reality, it allows itself to be deceived. When it believes what it sees on TV to be the literal unbiased

truth, when in fact TV broadcasts a highly opinionated reconstructed version designed to transport its audience to a dream-like existence, the audience loses touch with reality and becomes immune to moral conscience, guilt and remorse for its actions—for example, war, ecological destruction, racism, etc. Group deception and delusion is rooted in personal inability to distinguish fact and fantasy, reality and illusion creating a strange self-hypnotic mass psychosis, easily persuaded by the predominate image projected into its thinking. “Brainwashing” or “mind control” are not the best choice of words, yet the terms still resonate for many people in describing the immediate effects of visual media on the audience. Electronic media bypass the rational process and speaks directly to the emotional or subconscious. Media effects the shaping of behavior through mass appeal of image, a reproduction of reality framed in drama and grounded in the erotic (sex appeal), moving the mass to do something (doing is being), buy, give, join, fight, etc., without the ballast of critical reflection that will spare a people from rushing headlong into disaster. The irrational nature of the emotional appeal was the cause for Plato’s expulsion of artists, musicians and dramatists from his fictional utopia *The Republic*. By allowing irrational appeal free reign, the public loses the appeal to critical reason as the measure of truth and the people become prone to deception and mass manipulation by a tyrant. Likewise Jesus urges all to pause in rational reflection, “to count the cost” like a king going to war or building a tower, before deciding to follow him (Luke 14:25-33).

The failure to discern the difference between reality and illusion in mass and social media is due to the intoxicating effects of hyperreality and the loss of critical reason in the public’s media consumption. Electronic media numbs awareness to reality and allows escape to fantasy, as the universal *soma* (perfect drug from Huxley’s fictional tale *Brave New World*). The condition of intoxication or “drunkardness” is one of

self-induced madness, so the self-hypnotic condition of electronic media creates a similar neurosis. Karl Marx criticized religion as "the opiate of the people," accurate for the masses living in the industrial conditions of the 19th century, but obsolete as a description of the masses since the invention of television, which has replaced religion as the opiate of the people.

When image dominates a societal mindset and learning, emotional (sex) appeal moves the population in mass conformity or group behavior that ousts critical reason in herd mentality, subject to the whims of the image makers, propagandists, clergy, advertisers, etc. Ellul noted two orders of thinking determined by the means of learning: image and language. Image learning presents knowledge as a totality, each image is a world, complete and ready-made, certain of its own truthfulness, imparting its information instantly so long as we occupy the same space as the image. "The image conveys to me information belonging to the category of evidence, which convinces me without any prior criticism" (Ellul, *The Humiliation of the Word*, 36). The image impresses itself on the character of the learner through unconscious acceptance that does not follow the logical sequence of language from start to finish, beginning to end but produces a haphazard collage of contradicting light totalities that appeal immediately to the moment (instant gratification). Image based learning produces a monolithic mentality or stereotypical thinking and prescribed behavior. Critical reason is never allowed to assert differences; extremes are normalized so that everything is accepted. This is very apparent in the current PC orthodoxy widely accepted in the Millennial generation, the first generation raised on the computer, that stupidly pontificates that any assertion of difference between sexes, races, religion, etc., etc., amounts to "hate-crime." For example, the gay lifestyle is no longer an acceptable alternative to monogamy but now has legal sanction as part of the mainstream establishment, despite its irrational and

unnatural character. Islam is accepted as a religion of peace and compatible with Western democracies, yet no proof is ever offered to support this claim from the history of Islam. And the universal inanity of technological neutrality that provides the false sense of individual control over technological use, rapidly degenerates to technological necessity and inevitability of technological progress in actual daily behavior. Technology cannot be both neutral in its character under control of human choices and necessary or not under control of human choices, but autonomous (developing according to its own inner logic) at the same time; yet this inherent contradiction is completely ignored by all advocates of unlimited technological progress, Transhumanists, Futurists or simply all those who feel invested in the latest innovation: intellectuals, preachers, writers, professors, technogeeks, technognostics and technophiles. The smartest people in society appear completely oblivious to the contradiction of believing that technology is neutral in its essence yet necessary in application, rationalizing its rapid acceleration, not because they are bad people but because their thinking is dominated by the image of unlimited progress and human perfectibility projected onto them from the computer, rather than a rational way of thinking growing out of the book and lecture. Computerization of all human life creates the cardinal value of speed for its own sake (faster is better), which necessarily leads to nonlinear or irrational (emotional) learning through images because it is easy, instant, and unconscious, producing stereotypical categories and behavior. The word expressed in speech and writing produces opposition to image domination of the computer because it is slower, linear and critical.

The second order of thinking Ellul says comes from language or the spoken and written word which must follow an arduous task of connecting letters, words, sentences and thoughts to each other through the process of speaking, reading and writing which follows the contours of logical sequence in step by step

growth in knowledge and reason. Language learning does not begin with the self-asserting certainty of the totalitarian image, but develops progressively from "the unknown to uncertain and then from the uncertain to the known." (Ellul, *The Humiliation of the Word*, 36); dialectically including doubt, objection, protest or difference in the attainment of knowledge. Language is rational, self-aware or conscious, certain of what it knows but never exhaustive in its claim to absolute total knowledge, therefore it remains critical or open to differences of opinion and further learning; there is always something new to learn, discover and explore. Language allows for personal identity through individual choices that are free but never absolute or final beyond correction or criticism. In the total world imposed by the image, knowledge is absolute with nothing new possible, therefore it must be accepted uncritically.

Because language is rational it also produces the highest standards in ethics and morality-rooted individual values and beliefs. Rationalism always produces the greatest moralism. In the ancient world the rational school of philosophy (Stoicism) based on their belief in logos (universal reason) was also the most ethical in their practice of universal peace, and equality. In world religions Buddhism stands as the most rational in its beliefs of simple universal truths leading to practical moral behavior (Four Noble Truths: life is suffering, suffering is caused by selfish desire, suffering is alleviated by limiting selfish desire, curb selfish desire through the practical application of the Eightfold Path). Modern Rationalism culminating in the 19th century was also one of the profoundest in moral character in all strata of society, education, politics, economics and religion. The ethic of love rooted in the Fatherhood of God and Brotherhood of Man was considered the essence of Christianity in the 19th century (Harnack, *What is Christianity?*). The Jewish rabbinical approach to learning through language is legendary for its rationalism and strict legalism as well as its Islamic

counterpart in the Muslim devotion to the Koran, Sharia Law and iconoclasm.

In the second order of language, ethics are grounded in personal choices as a product of rational criticism, which allows for meaningful differences of opinion and the free creation of values. In the first order of image learning, all views are standard and all behavior an expression of group conformity. "The image tends . . . to produce conformity, to make us join a collective tendency" (Ellul, *The Humiliation of the Word*, 35). Thus the two orders of thinking are opposed to each other. The first order in totalitarian fashion is in the process of eradicating the second order through purging critical reason from the mindset of the population like a mass spiritual lobotomy that removes part of the brain that contains the higher function of reason and abstract thought process. The image overwhelms the word through reduction and then removal and remaps the collective mind to think accordingly, freedom of thought is left open as possibility only because most people cannot think for themselves but are programmed through media saturation. Note the drift in social media from glorified email responses on Facebook to the forced shrinkage of the word to 120 characters on Twitter, to finally pictures only on Tumblr, and Instagram. The second order in critical toleration of the image does not want to eradicate it, but put image in its place, not as an expression of truth or reality but a simple illustration in service of the word and higher critical function of human nature through which humanity creates its self-definition, limits and significance. The second order of language thinking does not separate rational discourse in philosophy from a dramatic presentation in literature, or the arts, film or TV, etc. The Twentieth Century French Existentialists demonstrated the compatibility of rational discourse through abstract prose and exposition and the concrete embodiment of their ideas in dramatic forms such as plays, novels and movie illustrations. Jean Paul Sartre, Albert Camus, Gabriel Marcel wrote the most

penetrating philosophical analysis of the modern condition of alienation as well as the greatest poetic description of modern despair and hope, for example, compare Sartre's tome *Being and Nothingness* with his play "No Exit" or Camus' essay on *The Myth of Sisyphus* to his novel *The Stranger*. Theologian Paul Tillich argued likewise that art serves as the spiritual barometer of culture. Through rational analysis of art, literature and drama the church will gain a better read on the spiritual climate of the society it hopes to evangelize and better tailor its message of the gospel to the concrete situation expressed through peoples felt needs. Even Jacques Ellul the leading social critic of visual media and advocate of word over image adopted a similar method of point and counter point as the existentialists by pairing the most penetrating sociological analysis of technology, raising the question how to limit autonomous technique and answering it with an allegorical interpretative method of the biblical text under the respectable umbrella of Barthian theology through his ethic of limits or nonpower. Compare *The Technological Society* to his biblical exposition of Genesis in *The Meaning of the City*.

14. On Facebook, friends can number into the thousands. New friends are just a click away; you don't even have to know them or even meet them to be friends. Aristotle said that friends are the people we eat with every day. Simple enough to grasp, but what does an ancient Greek philosopher know compared to the moguls of social media?

15. Baudrillard and Eco validated Gasset's thesis in *Revolt of the Masses* that science and technology sows the seeds of its own demise by elevating the mass of humanity through its values of discovery, invention and discipline, yet the mass revolt against those values that brought them to dominance. This is the same basic thesis that argues we are the victims of our own success as applied to capitalism and the accumulation of wealth. One generation works to achieve a



level of wealth that the next generation inherits with all the benefits of wealth but none of the sacrifice of the previous generation. Therefore it squanders it not knowing the value of wealth not having to work for it and being raised in privilege.

Gay Marriage is another recent example of simulacra. The hyperreal replaces the real with a copy made in our own image. Contemporary society is under a spell, thinking it can remake the institution of marriage founded in the Bible between one man and one woman (Genesis 2 and Matthew 19) to include its opposite or whatever the courts deem acceptable; eventually the courts will accept the union of people and their pets. Already the Disney Corporation has changed the name of The Family Channel to Free Form, an ominous precursor to the dissolution of meaning to the sacred word family in American popular culture and its reprobate legal system.

16. Reality and Truth are not coequal or synonymous terms, but signify different metaphysical orders. Ellul noted that the unity of reality and truth expresses "the unity of being" (Ellul, *Humiliation of the Word*, 96), or the right relationship between the Creator and his creation. Truth belongs to God's essence alone, as the One Eternal Absolute. Reality expresses the multifaceted finite human concrete situation. When our reality aligns with God's truth we experience the peace of redemption that passes understanding, harmonious being. Reality is the realm of sight that leads us away from the truth of the invisible God who cannot be seen and is found only through the word (speech, talk, conversation, discourse, lecture, song). The visible is the realm of false idols incarnated as very real visible powers (gods): Money, the State, and Technology (Ellul, *The Humiliation of the Word*, 94, 95). The order of reality is the order of human life which Nietzsche argued may include error. "Life no argument—We have fixed up a world for ourselves in which we can live—assuming bodies, lines, planes, causes and

effects, motion and rest, form and content: without these articles of faith, nobody now would endure life. But that does not mean that they have been proved. Life is no argument; the conditions of life could include error." (Friedrich Nietzsche, *The Gay Science* (New York: Vintage, 1974), 177 [121]). Iconoclasm then becomes the mission of the church as it proclaims the gospel and demolishes spiritual strong holds which is the battle for the mind "destroying speculations . . . raised up against the knowledge of God" (2 Corinthians 10:3-6); "iconoclasm is always essential to the degree that other gods and other representations are manifested . . . Today reality triumphs, has swept everything away and monopolizes all our energy and projects. The image is everywhere, but now we bestow dignity, authenticity and spiritual truth on it. We enclose within the image everything that belongs to the order of truth" (Ellul, *The Humiliation of the Word*, 94, 95).

17. In terms of an ethic of technology biblical truth translates as limit before use or law before license. For example, When adults set time limits on media use for their children anywhere from twenty minutes to an hour of screen time be it TV, computer or cell phone, they are practicing an ethic of technology.

Social critic Jacques Ellul stated; "The 'yes' makes no sense unless there is also the 'no' . . . the no comes first, death before resurrection. If the 'No!' is not lived in its reality the yes is a nice pleasantry, a comfort one adds to one's material comfort, and as Barth has conclusively shown the No is included in the gospel" Quoted in Lawrence J. Terlizze, *Hope in the Thought of Jacques Ellul* (Cascade: Eugene, OR, 2005), 127; Jacques Ellul, *False Presence of the Kingdom*, 25.

18. Original Divine Command: "From any tree of the Garden you may eat freely, but from the tree of the knowledge of good and evil you shall not eat, for in the day that you eat from it you shall surely die" (Genesis 2:16, 17 NASB).

Satanic Recreation of the original command: "Indeed, has God said, 'You shall not eat from any tree of the garden'"(Genesis 3:1 NASB).

Imperative turns into question through a simple shift in voice emphasis, "Don't eat!" to "Don't eat?", inciting disobedience instead of obedience as its effect, confusing the knowledge of good and evil.

19. The hyperreal replaces the real with a copy made in our own image. A copy is never greater than the original and to believe that a glorified reduction, a snap shot somehow surpasses the original shows just how far along the popular delusion has advanced. Simulacra is portent to antichrist: "The one whose coming is in accord with the activity of Satan, with all power and signs and false wonders, and with all the deception of wickedness for those who perish, because they did not receive the love of the truth so as to be saved. For this reason God will send upon them a deluding influence so that they will believe what is false in order that they all may be judged who did not believe the truth, but took pleasure in wickedness"(2 Thessalonians 2:9-12). Mass media qualifies as "a deluding influence": remaking the image of God in the image of an image. "Language is unobtrusive in that it never asserts itself on its own. When it [mass media] uses a loudspeaker and crushes others with its powerful equipment, when the television set speaks, the word is no longer involved, since no dialogue is possible. What we have in these cases is machines that use language as a way of asserting themselves. Their power is magnified, but language is reduced to a useless series of sounds which inspires only reflexes and animal instincts" (Jacques Ellul, *The Humiliation of the Word*, 23).

The first commandment teaches that "You shall not make any graven images . . . you shall not bow down to them nor worship them (Exodus 20:4, 5). The construction of image is always a reduction from an original and imperfectly copies what it claims to represent; presenting a false image of God, an idol.

The idol transforms its worshipers into its own image. All those who worship idols become like them (Psalms 115).

By worshiping the creature humanity dehumanizes itself by bowing down to the created order lower than itself. The prohibition against worshiping idols is meant to spare God's people from corrupting God's glory by reducing the invisible Creator to the visible creation and enslaving themselves to the works of their own hands. Idolatry exchanges "the glory of the incorruptible God for an image in the form of corruptible man . . ." (Romans 1:23). The idol is the construction of man, representing his ideal of God (image) in his own image, which in turn recreates man as slave in the image of the idol. Here we see perfectly in the biblical model of idolatry, the same Transhumanists enterprise of constructing an ideal image (cyborg) in the image (mankind) of an image (the computer), leading not to human ascendance or godhood but dehumanization or slavery by placing humanity lower than its own creation (the cyborg condition). Man builds an idol he thinks represents God which in truth is a reduction of the glory of God into the image of the creature and lowers himself through worship of the false image of God making himself a slave to a thing that appears real but really does not exist outside of humanity's faith in its own self-projection.

The first commandment prohibits "graven images" the invisible God cannot be seen in the works of human hands (Acts 17). All images of God are an affront to his holiness and danger to his children. Idols reduce God to the false image which then further reduces worshipers.

Iconoclasm is the central liberation mission of the church in its declaration of the gospel.

"No one can see God and live" (Exodus 33:20). "Images are incapable of expressing anything about God. In daily life as well, the word remains the expression God Chooses. Images are in a completely different domain—the domain that is not God

and can never become God on any grounds" (Ellul, *The Humiliation of the Word*, 91).

20. Ellul, *The Humiliation of the Word*, 96.

21. God's revelation comes only through the spoken word received by faith never through sight, which must remain subservient to the oral, spoken invisible message. "Faith comes from hearing and hearing by the word of Christ" (Romans 10:17). "We look not at the things that are seen, but at the things that are not seen; for the things that are seen are temporal, but the things that are not seen are eternal" (2 Corinthians 4:18). "We walk by faith, not by sight (2 Corinthians 5:7). "Faith is the assurance of things hoped for, conviction of things not seen . . . By faith we understand . . . Without faith it is impossible to please God" (Hebrews 11). "The righteousness of God is revealed from faith to faith, as it is written; 'The righteous live by faith'" (Romans 1:17). "Set your mind on things above [the invisible Christ, "the way, the truth and the life"], not on the things that are on earth [the visible, material, tangible, concrete reality of the present world]." "Fixing our eyes on Jesus the author and perfecter of faith" (Hebrews 12:2). The aural, auditory sense or put simply the ear is the organ of perception and faith never the eyes. Sight brings only doubt; despite popular opinion seeing is not believing, but unbelief. The desire to see the truth is rooted in doubt and unbelief; "Unless I see . . ." doubting Thomas said, ". . . I will not believe" (John 20:25). "Blessed are they who have not seen and yet believe" (John 20:29). "Sight played an enormous role in the Fall and caused all of humanity and language to swing to its side. Under these circumstances, it is understandable that the Bible so often relates sight to sin. Sight is seen as the source of sin, and the eye becomes the link between reality and the flesh. The eye is seen as the focusing lens of the body (but only of the body). The Bible speaks of the lust of the eye and of the eye as the source and means of coveting. Now we know

that covetousness is the crux of the whole affair, since sin always depends on it. "You shall not covet" (Ex. 20: 17) is the last of the commandments because it summarizes everything—all the other sins" (Ellul, *The Humiliation of the Word*, 100, 101). Because Eve looked upon the fruit, she lusted after wisdom, the knowledge of good and evil, a possession she desired but did not work for or earn that did not belong to her. "Eve coveted equality with God . . . She coveted autonomy of decision" (Ellul, *The Humiliation of the Word*, 101). Lust is born from sight of the material possession. The Tenth Commandment lists a prohibition of desire on what does not belong to us but is rightfully our neighbor's: his wife, house, domesticated animals and servants, all must first be seen before desired. Today we call these possessions status symbols, spouse, house, cars, money, etc., etc., all the objects of consumer desire that dominate our visual horizon through advertising, commercials and the all-pervasive world of image, which fills us with materialistic greed.

22. Technological convergence brings TV, computer, cell phone, video game (telecommunications) together as one medium. Professor of Philosophy Andy Clark notes that the cell phone is the gateway to the cyborg condition: "The cell phone is, indeed, a prime, if entry-level cyborg technology" (Andy Clark, *Natural-Born Cyborgs: Minds, Technologies, and the Future of Human Intelligence* [New York: Oxford University Press, 2003], 27). The cell phone has evolved from a clumsy mobile phone into a sleek microcomputer that puts the full resources of the internet at the fingertips of the user.

The computer medium heralds the absolute closing of the human mind and cultural diversity by subverting all ends to its means it creates the condition necessary for total domination of the human spirit. All total systems subvert ends to means in their revolutionary beginning, such as the Napoleonic empire, fascism and communism. "By any means necessary," or "for the good of the cause" becomes the motto of the radical

on the road to totalitarian paradise (Serfdom). The computer coopts all nontechnical areas; in the form of "technical aid and support" subverting their ends by overbearing means. As the absolute single point of convergence for all humanity the computer fixes its own organizational categories on every person, discipline (field) or organization that uses it. The passage of admission to digital utopia is technical conformity (surrender). All nontech people and fields must soon learn the ways of the computer, if they expect to survive in the new universal cyber regime (the technological order). Liberal Arts, for instance no longer exists as a separate track or discipline in a dialectical counter balance to Science. Beholden to the computer for success it has sold its spiritual birth right as moral conscience through cultural critic or prophet to the rational establishment. By way of apt analogy, in the past when churches received State support through official recognition as the established religion they became in effect the court prophets, chaplain's to the king. They "sold out" to the powers that be, forfeiting their divisive voice. Dissent is never allowed in any total system by definition, otherwise it would not be total. Those who profit from the system are not in a position to disagree with its direction without mortal endangerment. The old maxim "never bite the hand that feeds you" was rigorously applied by the official religions in the past. Likewise, rarely is a critical voice heard today through the prodigious production of liberal arts in media, except for science fiction film. The old dichotomy of art and technology embodied in the Intellectual verses the City model has resolved itself in the computer. Chilton Williamson, Jr. noted the subtle reeducation the older generation of writers must endure in order to practice their craft using the computer. "Writing ought to be, technically speaking, among the simplest and natural of human actions. The computer makes it one of the most complex and unnatural ones. It is nothing less than a crime against humanity, and against art, that a writer should be required to learn how to master a machine of any kind whatsoever in order to write a single

sentence. But no writer today can succeed in his craft if he does not learn to become a more or less skillful machine operator first." ("Digital Enthusiasm" in *Chronicles* [June 2014, 38.6], 33). The end or goal of writing (to be read by others) has been subverted by means of the computer (Subversion: to corrupt an alien system for different ends from within, for example; primitive Christianity was subverted by the political forces of the later Roman Empire, creating Christendom). Computer subversion of humanity has been repeated simultaneously with writing since the digital revolution in the 1990's.

By giving children at the earliest age possible a computer to play with and master, turning work into play, the technological oligarchy has guaranteed that they will grow to become computer technicians in some degree and has successfully circumvented the nasty reeducation process necessary to all revolutions in the past. As the product of the digital revolution the Millennial generation has inherited the onerous responsibility of being the first generation raised on the computer as their defining characteristic. They are the first non-national generation, identifiable by digital acuity, video game addiction and the cell phone, rather than by race, gender or creed. The world that they create will ultimately prove their humanity or not.

One machine that can do everything controls everyone, even now as I write an unsolicited advertisement appears on my computer screen telling me that "Technical support is designed to monitor your system for issues." Positively Orwellian! No greater insidious subtlety to seduce the human spirit than the emerging global technological order has appeared since the Tower of Babel!

All total systems are inherently corrupt and eventually self-destruct.

23. Philosopher Michael Foucault builds on Jeremy Bentham's



purposed panoptic system theory by arguing that Bentham's proposed universal prison surveillance system that kept prisoners under constant watch has been extended to contemporary society through media saturation. Law Professor Jerry Rosen argues that through social media society has entered a condition he describes as "Omniopticon" where we are all watching each other (*The Naked Crowd*); Ellul, *The Humiliation of the Word*, 152; Reg Whitaker *The End of Privacy: How Total Surveillance Is Becoming a Reality* (New York: New Press, 1999).

24. Hyperreal communities, churches, schools, dating sites do not allow for individual charisma, personal persona, flamboyancy, speech impediments, warts, blemishes, ugliness, beauty, intelligence, everything thing that makes an individual unique disappears behind the brilliance of a cartoon reality.

The modern socialization process once reserved for family, church and community in traditional society has been usurped by media and the State. Socialization is the rather sensitive and all important process through which values are imprinted on youth. Socialization is everything! Society receives its understanding of right and wrong, good and evil in a word normalcy through socialization. In the mission of the church socialization is equal to evangelism. If the church successfully evangelizes a society, converting everyone to the Christian faith, it must then pass those values to the next generation, if it fails to do so it must then start the whole evangelization process over. Regrettably, the American church is learning this lesson the hard way, after surrendering the socialization process of Christian youth to media, and public schools. The most media saturated and technologically adapt generation in human history is rapidly becoming the most nihilistic since late antiquity.

Media transmits collective values directly to the social body by passing the individual consciousness. Mass media transmits

its own values of consumption and materialism that traditional family, church and community as social agents cannot compete with according to social critic Herbert Marcuse. Media transmits the values of "efficiency, dream, and romance." "With this education, the family can no longer compete." The father's authority is the first traditional value to fall.(Herbert Marcuse, *Eros and Civilization: A Philosophical Inquiry to Freud* (New York: Vintage 1955, 88).

25. John L. Locke, *The De-Voicing of Society: Why We Don't Talk to Each Other Anymore* (New York: Simon & Schuster, 1998), 19.

26. The only reason people give as to why they use media technology is because of its convenience, it is easier to send an email or text than write a letter and use a postage stamp. However, ease of use and convenience shows lack of understanding as well as accountability. "I use it because it is easy" is hardly a thought-out moral defense for one's action! And here is where the trap lies for all of us. The history of technology demonstrates that convenient and pervasive use over time slowly turns into necessity. What was once done because it was so easy to do, eventually must be done. TV, computer and most recently the cell phone, these technologies never appeared as necessities but convenience, but now they are irresistible necessities. Convenience turns into necessity because it was so easy to send a text, or email, we have forgotten how to communicate in any other way, or refuse to relearn those old ways. Convenience dulls the spirit and numbs the mind, producing stupidity and apathy by removing all other practices from our intellectual horizon. Beware of anything thing that looks so easy, it is nothing more than a hook to necessity. The old saying, "If it sounds too good to be true it probably is," applies to technology as well. "Whatever appears to make your life easier right now in the long run may make it more difficult." Convenience turns into habit, habit turns into need, need turns into addiction.

27. The friendships forged in traditional institutions create the social support network for an individual throughout his professional career. As an online professor I did not know how to write a letter of recommendation for a student I have never met in person. Education has become so dominated by technical learning, all students in essence are studying to be engineers in their field whether teachers, medical practitioners, social workers etc.; they are taught efficient methods as administrators or managers of large groups of people.

28. Martin Heidegger, *Being and Time* (San Francisco: Harper and Row, 1962).

29. Quoted in Locke, *The De-Voicing of Society*, 43.

30. Ellul, *The Humiliation of the Word*, 122. "Even more, it [the camera] keeps me from proceeding to cultural assimilation, because these two steps can be taken only in a state of availability and lack of preoccupation with other matters – a state of "being there." (Ibid).

31. In line with Baudrillard thesis on the orders of simulacra, popular cell phone use, namely texting, demonstrates regressive effects of the latter stage of simulacra: metastasis or reversal of effects. It is quite common to see people texting and even preferring texting to any other mode of communication, especially phone calling, when it is obviously easier to call and talk than it is to text, time wise and in terms of context and amount of content necessary for successful conversation, yet texting is preferred because of its impersonal nature; people prefer the harder task of texting because it is impersonal, however, impersonal communication is less effective to the point of communication.

32. *Radio Times* (January 2016). Hawking said bluntly, "I think the development of full artificial intelligence could spell the end of the human race." Quoted in "Rise of the Machines"

in the *Dallas Morning News* Sunday, February 14, 2016, 1P. Recognizing and controlling the dangers of progress is a call for limits and boundaries to technological acceleration possible only through negation.

33. The fear of living without the necessity that controls us reveals the modern condition of technological determinism. In confronting determinism we must appeal to “the individual’s sense of responsibility . . . the first act of freedom, is to become aware of the necessity” (Ellul, *The Technological Society*, xxxiii).

Necessity (whatever we fear we cannot live without) is always a limitation placed on human nature, such as the basic biological needs to eat and sleep. Necessity limits freedom and therefore power and ability. Death is also a necessity, without which new life and growth cannot take place. However, death is the last enemy, which is defeated finally in the resurrection of the saints (1 Corinthians 15:50-58). To believe as Transhumanists do that death can be overcome through technological enhancement can only result in abomination. Professor of Computer Science Matthew Dickerson prophetically asks, what if the Transhuman “transformation is based on something that is not true? What will we be transformed into?” (*The Mind and the Machine: What it Means to be Human and Why it Matters*, Grand Rapids, MI: Brazos Press, 2011), xiv.

34. A campaign to “JUST SAY NO!” to further technological advance that threatens human existence, such as artificial intelligence, must be a collective effort for the entire human race, but begins with our own personal individual choices in limiting technological use, i.e. TV, computer, cell phone, and automobiles, and set boundaries to consumption on all consumer products. Resist the digitalization of traditional life through technological transfer of community to the online medium. Despite the convenience of a total online education it is unconscionable and detrimental if online students never

encounter a real college classroom, talk face to face with a professor and argue in group discussion with peers. Likewise, the church cannot remain the Body of Christ by shunting its responsibilities to parishioners, new members and seekers by declaring online and televised services equal to a live one. "Do not forsake the assembly of yourselves together" (Hebrews 10:25) prohibits a total digitalization of Christian worship and community. Christ said, "Where two or three have gathered in my name, I am there in the midst of them" (Matthew 18:20). The bodily presence necessary for community conveyed in these passages must not be allegorized by techno-gnostics who equate physical isolation in front of an electric screen to be "just as good" as being there.

35. We are enslaved to what we fear we cannot live without whether it be money, sex or technology. The rich young ruler did not follow Christ because he could not imagine life without his wealth, the security, comfort and power it bestowed was greater than the promise of eternal life through Jesus Christ. "Children, how hard it is for those who trust in riches to enter the kingdom of God" (Mark 10:24). The disciples were in shock at Jesus' utter intolerance to devotion to anything other than God: "You cannot serve God and money [technology, power]" (Matthew 6:24). Knowing their own attachment to wealth, they despaired, "Who then can be saved?" (Mark 10:26). It appears impossible to give up what we fear we cannot live without. "What shall we eat? What shall we drink? What shall we wear?" (Matthew 6:25); the perennial anxiety and pursuit of the faithless and fearful enslaved to material (bodily) necessity; "Is not life more than food and the body more than clothing [enhancement]?" (Matthew 6:25). "For after all these things the Gentiles [unregenerate] seek" (Matthew 6:32). "But Lord Jesus, we cannot live without cell phones and computers, any more than we can live without money! Get real, be reasonable—Lord you are asking the impossible of mortal sinners." And Jesus agrees, "With people it is impossible, but not with God; for all things are possible with God" (Mark

10:27).

36. Louis Armstrong – *What A Wonderful World* Lyrics | MetroLyrics

37. Ellul, *The Technological Society*, xxxi.

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# The Technological Simulacra [no footnotes]

## What Saccharine is to Sugar, or The Technological Simulacra: On the Edge of Reality and Illusion

“Anyone wishing to save humanity today must first of all save the word.” – Jacques Ellul

### Simulacra

Aerosmith sings a familiar tune:

*“There’s something wrong with the world today,  
I don’t know what it is,  
there’s something wrong with our eyes,  
we’re seeing things in a different way  
and God knows it ain’t [isn’t] his;  
there’s melt down in the sky. We’re living on the edge.”*

What saccharine is to sugar, so the technological simulacra is to nature or reality—a technological replacement, purporting itself to be better than the original, more real than reality, sweeter than sugar: hypersugar.



This  
article  
with  
footnotes

*Simulacra*, (*Simulacrum*, Latin, pl., *likeness, image, to simulate*): or simulation, the term, was adapted by French social philosopher Jean Baudrillard (1929-2007) to express his critical interpretation of the technological transformation of reality into hyperreality. Baudrillard's social critique provided the premise for the movie *The Matrix* (1999). However, he was made famous for declaring that the Gulf War never happened; TV wars are not a reflection of reality but projections (recreations) of the TV medium.

Simulacra reduces reality to its lowest point or one-dimension and then recreates reality through attributing the highest qualities to it, like snapshots from family vacation. When primitive people refuse to have their picture taken because they are afraid that the camera steals their souls, they are resisting simulacra. The camera snaps a picture and recreates the image on paper or a digital medium; it then goes to a photo album or a profile page. Video highlights amount to the same thing in moving images; from three dimensions, the camera reduces its object to soulless one-dimensional fabrication.

Simulacra does not end with the apparent benign pleasures of family vacation and media, although media represents its most recent stage. Simulacra includes the entire technological environment or complex, its infrastructure, which acts as a false "second nature" superimposed over the natural world, replacing it with a hyperreal one, marvelously illustrated in the movie *Terminator 2: Judgment Day* (1991). As liquid metal conforms itself to everything it touches, it destroys the original.

Humanity gradually replaces itself through recreation of human nature by technological enhancements, making the human race more adaptable to machine existence, ultimately for the purpose of space exploration. Transhumanists believe that through the advancements in genetic engineering, neuropharmaceuticals (experimental drugs), bionics, and artificial intelligence it will redesign the human condition in order to achieve immortality. "Humanity+," as Transhumanists say, will usher humanity into a higher state of being, a technological stairway to heaven, "glorification," "divinization" or "ascendency" in theological terms.

God made man in his own image and now mankind remakes himself in the image of his greatest creation (image), the computer. If God's perfection is represented by the number seven and man's imperfection by the number six, then the Cyborg will be a five according to the descending order of being; the creature is never equal or greater than the creator but always a little lower.[\[9\]](#)

Glorious Reduction!

[www.probe.org/machinehead-from-1984-to-the-brave-new-world-order-and-beyond/](http://www.probe.org/machinehead-from-1984-to-the-brave-new-world-order-and-beyond/)

## Hyperreality

An old tape recording commercial used to say, "Is it real or is it Memorex?" By championing the superiority of recording to live performance the commercial creates hyperreality, a reproduction of an original that appears more real than reality, a replacement for reality with a reconstructed one, purported to be better than the original.

Disneyland serves as an excellent example by creating a copy



of reality remade in order to substitute for reality; it confuses reality with an illusion that appears real, "more real than real." Disney anesthetizes the imagination, numbing it against reality, leaving spectators with a false or fake impression. Main Street plays off an idealized past. The technological reconstruction leads us to believe that the illusion "can give us more reality than nature can."

Hyperreality reflects a media dominated society where "signs and symbols" no longer reflect reality but are manipulated by their

users to mean *whatever*. Signs recreate reality to achieve the opposite effect (metastasis); for example, in Dallas I must travel west on Mockingbird Lane in order to go to East Mockingbird Lane. Or, Facebook invites social participation when no actual face to face conversation takes place.

Hyperreality creates a false perception of reality, the glorification of reduction that confuses fantasy for reality, a proxy reality

that imitates the lives of movie and TV characters for real life. When reel life in media becomes real life outside media we have entered the high definition, misty region—the Netherlands of concrete imagination—hyperreality!

Hyperreality goes beyond escapism or simply "just entertainment." If that was all there was to it, there would be no deception or

confusion, at best a trivial waste of time and money. Hyperreality is getting lost in the pleasures of escapism and confusing the fantasy world for the real one, believing that fantasy is real or even better than reality. Hyperreality results in the total inversion of society through technological sleight of hand, a cunning trick, a sorcerer's illusion transforming the world into a negative of itself, into its opposite, then calling it progress.

Hyperreality plays a trick on the mind, a self-induced hypnotism on a mass scale, duping us by our technological recreation into

accepting a false reality as truth. Like Cypher from the movie *The Matrix* who chose the easy and pleasant simulated reality over the harsh conditions of the “desert of the real” in humanity’s fictional war against the computer, he chose to believe a lie instead of the truth.

## **The Devil is a Liar**

A lie plays a trick on the mind, skillfully crafted to deceive through partial omission or concealment of the truth. The lie is the

devil’s (devil means liar) only weapon, always made from a position of inferiority and weakness (Revelation 20:3, 8). A lie never stands on its own terms as equal to truth; it does not exist apart from twisting (recreating) truth. A lie never contradicts the truth by standing in opposition to it.

A lie is not a negative (no) or a positive (yes), but obscures one or the other. It adds by revealing what is not there—it subtracts by concealing what is there. A lie appears to be what is not and hides what it really is. “Satan disguises himself as an angel of light” (2 Corinthians 11:14).

A lie does not negate (contradict) or affirm truth. Negation (No) establishes affirmation (Yes). Biblically speaking, the no comes

before the yes—the cross then the resurrection; law first, grace second. The Law is no to sin (disobedience); the Gospel is yes to faith (obedience). Truth is always a synthesis or combination between God’s no in judgment on sin and His yes in grace through faith in Jesus Christ. “For the Law was given through Moses; grace and truth were realized through Jesus Christ” (John 1:17). Law without grace is legalism; grace without law is license.

[www.probe.org/law-and-grace-combating-the-american-heresy-of-pelagianism/](http://www.probe.org/law-and-grace-combating-the-american-heresy-of-pelagianism/)

The devil's lie adds doubt to the promise of God; "Indeed, has God said, 'you shall not eat from any tree of the garden'?" (Genesis 3:1

NASB) It hides the promise of certain death; "You surely will not die" (Genesis 3:4). The serpent twists knowledge into doubt by turning God's imperative, "Don't eat!" into a satanic question "Don't eat?"

But it is Eve who recreates the lie in her own imagination. "When the woman saw that the tree was good for food, and that it was a delight to the eyes, and that the tree was desirable to make one wise, she took from its fruit and ate; and she gave also to her husband with her, and he ate" (Genesis 3:6).

Sight incites desire. We want what we see (temptation). Eve was tempted by "the lust of the eyes" (1 John 2:16) after seeing the fruit, then believed the false promise that it would make her wise. "She sees; she no longer hears a word to know what is good, bad or true." Eve fell victim to her own idolatrous faith in hyperreality that departed from the simple trust in God's word.

## **The Void Machine**

Media (television, cell phone, internet, telecommunications) is a void machine. In the presence of a traditional social milieu, such as family, church or school, it will destroy its host, and then reconstruct it in its own hyperreal image (Simulacra). Telecommunication technology is a Trojan Horse for all traditional institutions that accept it as pivotal to their "progress," except prison or jail. The purpose of all institutions is the promotion of values or social norms, impossible through the online medium.

Media at first appears beneficial, but this technology

transforms the institution and user into a glorified version of itself. The personal computer, for example, imparts values not consistent with the mission of church or school, which is to bring people together in mutual support around a common goal or belief for learning and spiritual growth (community). This is done primarily through making friends and forming meaningful relationships, quite simply by people talking to each other. Values and social norms are only as good as the people we learn them from. Values must be embodied in order to be transmitted to the next generation.

Talking as the major form of personal communication is disappearing. Professor of Communications John L. Locke noted that "Intimate talking, the social call of humans, is on the endangered species list." People prefer to text, or phone. Regrettably, educational institutions such as high schools and universities are rapidly losing their relevance as traditional socializing agents where young people would find a potential partner through like interests or learn a worldview from a mentor. What may be gained in convenience, accessibility or data acquisition for the online student is lost in terms of the social bonds necessary for personal ownership of knowledge, discipline and character development.

An electronic community is not a traditional community of persons who meet face to face, in person, in the flesh where they establish personal presence. Modern communication technologies positively destroy human presence. What philosopher Martin Heidegger called *Dasein*, "being there," (embodiment or incarnation) is absent. As Woody Allen put it, "90 percent of life is showing up." The presence of absence marks the use of all electronic communication technology. Ellul argued, "The simple fact that I carry a camera [cell phone] prevents me from grasping everything in an overall perception." The camera like the cell phone preoccupies its users, creating distance

between himself and friends. The cellphone robs the soul from its users, who must exchange personal presence for absence; the body is there tapping away, but not the soul! The cell phone user has become a void!

## **The Power of Negative Thinking**

According to popular American motivational speakers, the key to unlimited worldly wealth, success and happiness is in the power of

positive thinking that unleashes our full potential; however, according to obscure French social critics the key to a meaningful life, lived in freedom, hope and individual dignity is in the power of negative thinking that brings limits, boundaries, direction and purpose.

Negativity gives birth to freedom, expanding our spiritual horizons with possibilities and wise choices, which grounds faith, hope and

love in absolute truth, giving us self-definition greater than our circumstances, greater than reality of the senses. To freely choose in love one's own path, identity and destiny is the essence of individual dignity.

According to French social critics Jacques Ellul and Herbert Marcuse, freedom is only established in negation that provides limits

and boundaries, which tells us who we are. Technological hyperreality removes all natural and traditional limits in the recreation of humanity in the image of the cyborg. The transhuman transformation promises limitless potential at the expense of individual freedom, personal identity and ultimately human dignity and survival.

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All limitless behavior ends in self-destruction. Human

extinction looms over the technological future, like the Sword of Damocles,  
threatening humanity's attempt to refit itself for immortality in a grand explosion (nuclear war), a slow poisoning (ecocide) or suicidal regressive technological replacement. Stephen Hawking noted recently that technological progress threatens humanity's survival with nuclear war, global warming, artificial intelligence and genetic engineering over the course of the next 100 years. Hawking stated, "We are not going to stop making progress, or reverse it, so we must [recognize] the dangers and control them."

In asserting "NO!" to unlimited technological advance and establishing personal and communal limits to our use of all technology,  
especially the cell phone, computer and TV, we free ourselves from the technological necessity darkening our future through paralyzing the will to resist.

After we "JUST SAY NO!" to our technological addictions, for instance, after a sabbatical fast on Sunday when the whole family turns off their electronic devices, and get reacquainted, a new birth of freedom will open before us teeming with possibilities. We will face unmediated reality in ourselves and family with a renewed hope that by changing our personal worlds for one day simply by pushing the off button on media technology we can change the future. Through a weekly media fast (negation) we will grow faith in the power of self-control by proving that we can live more abundant lives without what we once feared absolute necessity, inevitable and irresistible. "All things are possible with God" (Mark 10: 27). When we exchange our fear of idols for faith in the Living God the impossible becomes possible and our unlimited potential is released that will change the world forever!

I see trees of green, red roses, too,  
I see them bloom, for me and you  
And I think to myself

What a wonderful world.

I see skies of blue, and clouds of white,  
The bright blessed day, the dark sacred night  
And I think to myself  
What a wonderful world.

The colors of the rainbow, so pretty in the sky,  
Are also on the faces of people going by.  
I see friends shaking hands, sayin', "How do you do?"  
They're really sayin', "I love you."

I hear babies cryin'. I watch them grow.  
They'll learn much more than I'll ever know  
And I think to myself  
What a wonderful world.

"[I]f man does not pull himself together and assert himself .  
. . then things will go the way I describe [cyborg  
condition]." – Jacques Ellul

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## What is Technology?

*Dr. Lawrence Terlizze uncovers a disturbing new view of technology: not as neutral, but a way of life that objectifies everything, including people.*

### The Neutrality View

Most people take a favorable view towards technological progress; new cars, cell phones and computers – what's not to like? They embrace technological innovation as a plus despite the



suspensions of questionable things like cloning, genetic engineering and nuclear weapons. But what is technology anyway? Do we really understand this all-embracing phenomenon directing human history? We often take for granted that we think we know the answer when in fact the meaning of the greatest social mover of all times remains elusive. When it comes to defining technology we are beset with the problem of defining more than just a word, but a concept and whole way of life and worldview.

The typical definition of technology these days says technology is neutral, suggesting that technology is nothing more than tools that people use as needed. Technology is a means to an end and nothing more. All objects are separate and disconnected. They are neutral and value-free, right? Tables, chairs, and light fixtures have nothing to do with each other and express no values in themselves and are completely determined by our use. They are simply objects at our disposal and present no moral problems so long as we use them for good. We can pick up a hammer and use it, then place it back in the tool box when finished. The hammer has appropriate and inappropriate uses. Hitting nails into wood is one of the acceptable uses of a hammer; using it to play baseball is not acceptable. So long as we act as good moral agents we use our technology rightly, or so we think. This definition is so widely accepted that we have trouble ever questioning it. When faced with morally questionable uses of technology we fall back on this old cliché: "technology is neutral," and that settles all disputes. We are all familiar with this popular view and embrace it to some extent. The problem is not that the cliché is so simple or popular, but that it is so wrong. Philosophers have been telling us for decades now that the neutrality of technology definition is wrong and dangerous because it blinds us to the true nature of technology.



# The Holistic View

The second view of the nature of technology, held mainly by philosophers, we call the “holistic view.” This view states that the “neutrality view” is false because people hold to it as a means of justifying every type of technology. The neutrality view blinds us to the true nature of technology, which is not value-free. The lack of understanding regarding the true nature of technology creates a serious problem for a society so heavily influenced by technological development. As sociologist Rudi Volti says, “This inability to understand technology and perceive its effects on our society and on ourselves is one of the greatest, if most subtle, problems of an age that has been so heavily influenced by technological change.”<sup>[1]</sup> Technology is understood as a social system. We can also call it a worldview, a philosophy of life that sees all things as objects, including people. Instead of defining technology as disparate tools unconnected to each other, philosophers have suggested a more comprehensive definition that says technology does not mean neutral objects ready for use at our convenience, but a way of life that informs and controls everything we do. In other words, technology is a belief system with its own worldview and agenda—more like a religion than a hammer.

This belief system is often called the *essence of technology* or *spirit of technology* and cannot be seen in technological objects because we cannot see the entire system by looking at individual parts. We must grasp the spiritual essence before we can understand its technical parts. The “neutrality view” looks only at parts rather than the whole and misses technology’s true nature. This is a lot like looking at the tires of your car or its engine parts and thinking you now understand a car from seeing separate pieces of it and never seeing how the whole thing fits together.

The holistic view understands technology as a way of life and

spiritual reality that shapes all our thinking. Philosopher Martin Heidegger gives the example of how the Rhine River exists not as a river, but as a source for electricity. Everything becomes stuff ready for usefulness.{2}

Technology really means an interconnected system rather than a neutral tool. The neutral definition blinds us to the true nature of technology and prevents us from mastering it. Heidegger argued that “we are delivered over to [technology] in the worst possible way when we regard it as something neutral; for this conception of it, to which today we particularly like to do homage, makes us utterly blind to the essence of technology.”{3}

## Technology as Spirituality

The neutrality argument reassures us that we remain in control of our means rather than our means controlling us. It does not allow us to find the essence of technology in everyday technological objects such as cars, computers, or screw drivers and baseball bats; rather, technology is a way of life and thought that creates a universal system. Technology means the grand accumulation of all the different technological parts into a global system.

Technology is a system of interlocking systems. As philosopher Jacques Ellul said, “It is the aggregate of these means that produces technical civilization.”{4} Technology is our modern frame of reference that speaks of the profoundly spiritual and not the strictly technical. If we look at individual everyday technologies we will miss it. Instead we must see past the common objects to the larger global system that comprises technology as a social process. In the technological system both humanity and nature have no separate standing or value outside of technical usefulness. People are simply resources to be used and discarded as needed.

This view reveals the depths to which technology shapes our thinking by informing us and conforming us into the image of the machine, which represents the greatest example of technological thinking. Everything is understood as a machine and should function like a machine including the government, the school, the church and you! Bureaucracy is a social machine.

The machine is predictable. It has no freedom. It follows mechanical steps, or linear logic. Step one leads to step two, and so forth. Any deviation from its programming causes chaos and possible break down, which is why the machine is the worst possible analogy for human beings to follow. Yet this is the basis of the entire modern conception of life.[\[5\]](#) People are not machines that can be programmed; to adopt this conception reverses the role between humanity and its machines, making people conform to the image of the machine rather than vice versa. Machines are our slaves. They do what we tell them to do. They have no will, feelings or desires. Philosophers tell us that the natural relationship between people and machines is in a process of reversal so that we are becoming slaves to technology. We may control our individual use of technology but no one as of yet controls the entire system.[\[6\]](#)

## Neutrality as Modern Myth

Nothing can be explained by the neutrality argument, not even the meaning of “neutrality.” It is simply not possible for any technology to be neutral; even the most primitive tools such as fire or stone axes take the form of their designers. Every technology bears inherent values of purpose and goals. Fire has value for a particular reason, to clear the land, cook food, keep people warm and ward off dangerous animals. By their very design, all inventions and tools reflects our values and human nature. Philosopher of Science Jacob Bronowski argued that “to quarrel with technology is to quarrel with the nature of man.”[\[7\]](#) Technology is an extension

of ourselves and expresses human nature, which is never entirely good or bad, but ambivalent. Our technology reflects who we are and nothing more; it is not divine, it will not save the human race; but neither is it animal, but fully human, whose nature is always ambiguous, capable of great acts of kindness and mercy as well as cruelty and evil. People can be self-sacrificial and giving and self-destructive and greedy. There will always be good and bad effects to our inventions. They are a double edged sword that cuts both ways and it is our responsibility to discern between the two.

The modern bias in favor of neutrality reveals our protectionist tendencies towards all things technological. How is it that sinful people can produce morally neutral technology? We would not say that about art. "Oh! All art is morally neutral! It is all a matter of how you use it!" Yet the same creative forces go into producing technology as art. Is there anything neutral about the works of Caravaggio, Da Vinci or Picasso? Why then should there be anything neutral about Facebook or MX missiles?

This appears simple enough, but as modern people addicted to our latest toys and novelties we have difficulty admitting we may have a problem. We don't like to think that too much Facebook might be causing young people to be further isolated from the community because they are more accustomed to relate electronically than in person, or that email actually reduces our ability to communicate because of the absence of tone of voice, body language, eye contact and personal presence. TV and film may have a surreal effect on its message, giving it a dream like quality rather than communicating realism.

## **Controlling Technology**

The solution is not to abandon any of the incredible inventions of the modern age, but to recognize their limits. It is the sign of wisdom that we understand our limits and

work within them. We should proceed along a two tiered path of questioning and the application of values. Ellul said that "It is not a question of getting rid of [technology], but by an act of freedom, of transcending it." [\[8\]](#) The act of questioning is the first act of freedom; by becoming aware of the problem we can assert a measure of freedom and control. Through critical questioning we recognize our limits and thus we are able to exercise a measure of control over technology.

We should develop technologies that reflect our values of freedom, equality and democracy. For example, Ellul did envision in the early 1980's the potential use of computer technology in a way that would create a decentralized source of knowledge that would maintain the values of democracy. We know this now as the internet. However, as Ellul also argued technology cannot change society for the better if we don't change ourselves. The computer can also be used to bring in stifling State control. [\[9\]](#) We will never have a perfect technology that has no problems, but we should be visionaries in how we think about technology and the application of our values to it.

Limits serve as a warning to us. It is obvious that society has progressed in many ways thanks to advanced technology, but society's spiritual regression shares the same condition as advancement. We have not become better people because we live in the twenty-first century rather than the nineteenth century. Without a renewed spiritual and moral framework to direct our development and give new purpose to the system, technology may become the source of our own destruction rather than improvement. An inventory of advancement compares starkly with the litany of potential catastrophe. We have eliminated disease, but also created dangerous levels of overpopulation. We live longer and more abundant lives materially, but are pushing the natural world into extinction. We are able to travel quicker and communicate instantly, contributing to world peace and understanding, but have also developed the

weapons of war to unimaginable levels of devastation.

Without a moral framework to control technology and understand its ethical limits we will go down a path of losing control of technology's direction, allowing it to develop autonomously. This means it will develop in a predetermined linear direction, like a clock that will inevitably strike midnight once wound up. That direction as we have seen moves inexorably closer to the mechanization of humanity and nature. With the right value-system we can begin to reassert control. The choice is yours. Where do you want to go?

## Notes

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# Computers and the Information Revolution

## The Impact of the Information Revolution

What has been the impact of the information revolution, and how should Christians respond? Those are the questions we will consider in this essay. Let's begin by considering how fast our world shifted to a computer-based society. At the end of World War 2, the first electronic digital computer ENIAC weighed thirty tons, had 18,000 vacuum tubes, and occupied a space as large as a boxcar. Less than forty years later, many hand-held calculators had comparable computing power for a few dollars. Today most people have a computer on their desk with more computing power than engineers could imagine just a few years ago.

The impact of computers on our society was probably best seen when in 1982 *Time* magazine picked the computer as its "Man of the Year," actually listing it as "Machine of the Year." It is hard to imagine a picture of the Spirit of St. Louis or an Apollo lander on the magazine cover under a banner "Machine of the Year." This perhaps shows how influential the computer has become in our society.

The computer has become helpful in managing knowledge at a time when the amount of information is expanding exponentially. The information stored in the world's libraries and computers doubles every eight years. In a sense the computer age and the information age seem to go hand in hand.

The rapid development and deployment of computing power however has also raised some significant social and moral questions. People in this society need to think clearly about these issues, but often ignore them or become confused.

One key issue is computer crime. In a sense, computer fraud is merely a new field with old problems. Computer crimes are often nothing more than fraud, larceny, and embezzlement carried out by more sophisticated means. The crimes usually involve changing address, records, or files. In short, they are old-fashioned crimes using high technology.

Another concern arises from the centralization of information. Governmental agencies, banks, and businesses use computers to collect information on its citizens and customers. For example, it is estimated that the federal government has on average about fifteen files on each American. Nothing is inherently wrong with collecting information if the information can be kept confidential and is not used for immoral actions. Unfortunately this is often difficult to guarantee.

In an information-based society, the centralization of information can be as dangerous as the centralization of power. Given sinful man in a fallen world, we should be concerned about the collection and manipulation of vast amounts of personal information.

In the past, centralized information processing was used for persecution. When Adolf Hitler's Gestapo began rounding up millions of Jews, information about their religious affiliation was stored in shoe boxes. U.S. Census Bureau punch cards were used to round up Japanese Americans living on the West Coast at the beginning of World War II. Modern technology makes this task much easier.

Moreover, the problem is not limited to governmental agencies. Many banking systems, for example, utilize electronic funds-



transfer systems. Plans to link these systems together into a national system could also provide a means of tracking the actions of citizens. A centralized banking network could fulfill nearly every information need a malevolent dictator might have. This is not to say that such a thing will happen, but it shows the challenges facing each of us due to the information revolution.

## **The Social Challenges of Computers**

One of the biggest challenges raised by the widespread use of computers is privacy and the confidentiality of computer records. Computer records can be abused like any other system. Reputations built up over a lifetime can be ruined by computer errors and often there is little recourse for the victim. Congress passed the 1974 Privacy Act which allows citizens to find out what records federal bureaucracies have on them and to correct any errors. But more legislation is needed than this particular act and Congress needs to consider legislation that applies to the information revolution.

The proliferation of computers has presented another set of social and moral concerns. In the recent past most of that information was centralized and required the expertise of the "high priests of FORTRAN" to utilize it. Now most people have access to information because of increasing numbers of personal computers and increased access to information through the Internet. This access to information will have many interesting sociological ramifications, and it is also creating a set of troubling ethical questions. The proliferation of computers that can tie into other computers provides more opportunities for computerized crime.

The news media frequently carry reports about computer "hackers" who have been able to gain access to confidential computer systems and obtain or interfere with the data banks. Although these were supposed to be secure systems, enterprising computer hackers broke in anyway. In many cases

this merely involved curious teenagers. Nevertheless, computer hacking has become a developing area of crime. Criminals might use computer access to forge documents, change records, and draft checks. They can even use computers for blackmail by holding files for ransom and threatening to destroy them if their demands are not met. Unless better methods of security are found, professional criminals will begin to crack computer security codes and gain quick access into sensitive files.

As with most technological breakthroughs, engineers have outrun lawmakers. Computer deployment has created a number of legal questions. First, there is the problem of establishing penalties of computer crime. Typically, intellectual property has a different status in our criminal justice system. Legal scholars should evaluate the notion that ideas and information need not be protected in the same way as property. Legislators need to enact computer information protection laws that will deter criminals, or even curious computer hackers, from breaking into confidential records.

A second legal problem arises from the question of jurisdiction. Telecommunications allows information to be shared across state and even national borders. Few federal statutes govern this area and less than half the states have laws dealing with information abuse.

Enforcement will also be a problem for several reasons. One reason is the previously stated problem of jurisdiction. Another is that police departments rarely train their personnel in computer abuse and fraud. A third reason is lack of personnel. Computers are nearly as ubiquitous as telephones or photocopiers.

Computer fraud also raises questions about the role of insurance companies. How do companies insure an electronic asset? What value does computer information have? These questions also need to be addressed in the future.

Computers are a wonderful tool, but like any technology poses new challenges in the social and political arenas. I believe that Christians should be the forefront of these new technologies providing wise direction and moral guidelines. We need Christians in the fields of computer technology and electrical engineering who can wisely guide us into the 21st century.

## Principles for Computer Ethics

I would like to propose some principles for computer ethics. The first principle is that **one should never do with computers what he or she would consider immoral without them**. An act does not gain morality because a computer has made it easier to achieve. If it is unethical for someone to rummage through your desk, then it is equally unethical for that person to search your computer files. If it is illegal to violate copyright law and photocopy a book, then it is equally wrong to copy a disk of computer software.

A second principle is to **treat information as something that has value**. People who use computers to obtain unauthorized information often do not realize they are doing something wrong. Since information is not a tangible object and can be shared, it does not seem to them like stealing since it does not deprive someone of something. Yet in an information-based society, information is a valuable asset. Stealing information should carry similar legal penalties as stealing tangible objects.

A third principle is to remember that **computers are merely tools to be used, not technology to be worshiped**. God's mandate is to use technology wisely within His creation. Many commentators express concern that within an information society, people may be tempted to replace ethics with statistics.

Massive banks of computer data already exert a powerful

influence on public policy. Christians must resist society's tendency to undermine the moral basis of right and wrong with facts and figures. Unfortunately, growing evidence indicates that the computer revolution has been a contributing factor in the change from a moral foundation to a statistical one. The adoption of consensus ethics ("51 percent make it right") and the overuse of cost-benefit analysis (a modernized form of utilitarianism) give evidence of this shift.

Fourth, **computers should not replace human intelligence.** In *The Society of Mind* Marvin Minsky, professor at the Massachusetts Institute of Technology, says that "the mind, the soul, the self, are not a singly ghostly entity but a society of agents, deeply integrated, yet each one rather mindless on its own." He dreams of being able ultimately to reduce mind (and therefore human nature) to natural mechanism. Obviously this is not an empirical statement, but a metaphysical one that attempts to reduce everything (including mind) to matter.

The implications, however, are profound. Besides lowering humans to the material process, it begins to elevate machines to the human level. One article asked the question, Would an Intelligent Computer Have a "Right to Life?" Granting computer rights might be something society might consider since many are already willing to grant certain rights to animals.

In a sense the question is whether an intelligent computer would have a soul and therefore access to fundamental human rights. As bizarre as the question may sound, it was no doubt inevitable. When seventeenth-century philosopher Gottfried Wilhelm von Leibniz first described a thinking machine, he was careful to point out that this machine would not have a soul, fearful perhaps of reaction from the church. But this will be our challenge in the future: how to manage new computing power that will most likely outstrip human intelligence.

The Bible teaches that humans are more than bits and bytes,

more than blood and bones. Created in the image of God, human beings have spiritual dimensions. They are more than complex computers. Computers should be used for what they do best: analyze discrete data with objective criteria. Computers are a wonderful tool, but they should not replace human intelligence and intuition.

## **Biblical Principles Concerning Technology**

I would like to present a set of biblical principles concerning technology in general and computer technology in particular.

In essence, technology is the systematic modification of the environment for human ends. Often it is a process or activity that extends or enhances a human function. A microscope, for example, extends man's visual perception. A tractor extends one's physical ability. A computer extends a person's ability to calculate. Technology also includes devices that make physical processes more efficient. The many chemical processes we use to make products fit this description of technology.

The biblical mandate for developing and using technology is stated in Genesis 1:28. God gave mankind dominion over the land, and we are obliged to use and manage these resources wisely in serving the Lord. God's ideal was not to have a world composed exclusively of primitive areas. Before the Fall (Gen. 2:15) Adam was to cultivate and keep the Garden of Eden. After the Fall the same command pertains to the application of technology to this fallen world, a world that "groans" in travail (Rom. 8:22). Technology can benefit mankind in exercising proper dominion, and thus remove some of the effects of the Fall (such as curing disease, breeding livestock, or growing better crops).

Technology is neither good or evil. The worldview behind the particular technology determines its value. In the Old Testament, technology was used both for good (e.g., the

building of the ark, Gen. 6) and for evil (e.g., the building of the Tower of Babel, Gen. 11). Therefore the focus should not be so much on the technology itself as on the philosophical motivation behind its use. There are a number of important principles that should be considered.

First, **technology should be seen as a tool, not as an end in itself.** There is nothing sacred about technology. Unfortunately Western culture tends to rely on it more than is appropriate. If a computer, for example, proves a particular point, people have a greater tendency to believe it than if the answer was a well-reasoned conclusion given by a person. If a machine can do the job, employers are prone to mechanize, even if human labor does a better or more creative job. Often our society unconsciously places machines over man. Humans become servants to machines rather than the other way around.

There is a tendency to look to science and engineering to solve problems that really may be due to human sinfulness (wars, prejudice, greed), the fallenness of the world (death, disease), or God's curse on Adam (finite resources). In Western culture especially, we tend to believe that technology will save us from our problems and thus we use technology as a substitute for God. Christians must not fall into this trap, but instead must exhibit their ultimate dependence on God. Christians must also differentiate between problems that demand a technological solution and ones that can be remedied by a social or spiritual one.

As Christians we should see the value of technology but not be seduced into believing that more and better technology will solve social and moral problems. Computers and the Internet will tell us more about *how* people live, but they won't tell us *how to* live. Televisions, VCRs, and computers may enrich our lives, but they won't provide the direction we need in our lives. The answer is not more computers and more technology. The ultimate answer to our problems is a personal relationship with Jesus Christ.

A second principle is that **technology should be applied in different ways, according to specific instructions.** For example, there are distinctions between man and animal that, because we are created in God's image (Gen. 1:26-27), call for different applications of medical science. Using artificial insemination to improve the genetic fitness of livestock does not justify using it on human beings. Christians should resist the idea that just because we can do something we should do it. Technological ability does not grant moral permission.

Many commentators, most notably E. F. Schumacher, have focused on the notion of appropriate technology. In Third World countries, for example, sophisticated energy-intensive and capital-intensive forms of agriculture may be inappropriate for the culture as it presently exists. Industrial advance often brings social disruption and increasing havoc to a society. Developing countries must use caution in choosing the appropriate steps to industrialize, lest they be greatly harmed in the process.

I believe we should resist the temptation to solve every problem with computers. Our society today seems bent to putting computers in every classroom and in every place of work. As helpful as computers may be, I believe we need to question this seemingly mindless attempt to fill our world with computers. They are a wonderful tool, but that is all they are. We must be careful not to substitute computers for basics like phonics, mathematics, logic, and wise business practices.

Third, **ethics rather than technology must determine the direction of our society.** Jacques Ellul has expressed the concern that technology moves society instead of vice versa. Our society today seems all too motivated by a technological imperative in our culture. The technological ability to do something is not the same as a moral imperative to do it. Technology should not determine ethics.

Though scientists may possess the technological ability to be gods, they nevertheless lack the capacity to act like gods. Too often, man has tried to use technology to become God. He uses it to work out his own physical salvation, to enhance his own evolution, or even to attempt to create life. Christians who take seriously human fallenness will humbly admit that we often do not know enough about God's creation to use technology wisely. The reality of human sinfulness means that society should be careful to prevent the use of technology for greed and exploitation.

Technology's fruits can be both sweet and bitter. C.S. Lewis writes in *The Abolition of Man*, "From this point of view, what we call Man's power over Nature turns out to be power exercised by some men over men with Nature as its instrument. . . . There neither is nor can be any simple increase of power on Man's side. Each new power won by man is a power over man as well. Each advance leaves him weaker as well as stronger. In every victory, besides being the general who triumphs, he is also the prisoner who follows the triumphal car."

Christians must bring strong biblical critique to each technological advance and analyze its impact. Computers are a wonderful tool, but Christians should constantly evaluate their impact as we live through the information revolution.

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