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[1]
The Language of New Media

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The Language of New Media

It is the opposite of the first: separate realities form contingent parts of a single image... examples [of montage within a shot | include the superimposition of a few images and multiple screens used by the avant-garde filmmakers in the 1920's (for instance, superimposed images in Vertov's Man with a Movie Camera and a three-part screen in Gance Abel's 1927 Napoléon).

# [11]

While the dominant use of digital compositing is to create a seamless virtual space, it does not have to be subordinated to this goal.

[6]

This prologue consists of a number of stills from the film.

[9]

Theoreticians of cinema have distinguished between many kinds of montage but, for the purposes of sketching the archeology of the technologies of simulation leading to digital compositing, I will distinguish between two basic techniques.

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[8]

The incorporation of virtual camera controls into the very hardware of a game consoles is truly a historical event.

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The incorporation of virtual camera controls into the very hardware of a game consoles is truly a historical event.

# [9]

The first technique is temporal montage: separate realities form consecutive moments in time.

[18]

This process of discovery is film's main narrative and it is told through a catalog of discoveries being made.

[20]

Indeed, millions of computer users communicate with each other through the same computer interface.

### [14]

It is a realistic representation of <a href="https://human.wision.com/human.wision">human.wision</a> in the future when it will be augmented by computer graphics and cleansed from noise.

[9]

Editing, or montage, is the key twentieth technology for creating fake realities.

### [10]

As theorized by Vertov, through [temporal] montage, film can overcome its indexical nature, presenting a viewer with objects which never existed in reality.

# [15]

Along with Greenaway, Dziga
Vertov can be thought of as a
major 'database filmmaker' of
the twentieth century.

### [10]

As theorized by Vertov, through [temporal] montage, film can overcome its indexical nature, presenting a viewer with objects which never existed in reality.

[19]

If modern visual culture
exemplified by MTV can be
thought of as a Mannerist stage
of cinema, its perfected
techniques of cinematography,
mise-enscene and editing selfconsciously displayed and
paraded for its own sake,
Waliczky's film presents an
alternative response to cinema's
classical age, which is now
behind us.

### [13]

Along with Greenaway, Dziga
Vertov can be thought of as a
major 'database filmmaker' of
the twentieth century. Man with
a Movie Camera is perhaps the
most important example of
database imagination in modern
media art.

### [10]

As theorized by Vertov, through [temporal] montage, film can overcome its indexical nature, presenting a viewer with objects which never existed in reality.

It would be only a small leap to relate this density of "pictorial displays" to the density of contemporary information displays such as Web portals which may contain a few dozen hyperlinked elements; or the interfaces of popular software packages which similarly present the user with dozens commands at once.

[12]

The cameraman, whom Benjamin compares to a surgeon, 'penetrates deeply into its [reality] web'; his camera zooms in order to 'pray an object from its shell.'

[1]
The Language of New Media

[6]

The avant-garde masterpiece A

Man With a Movie Camera

completed by Russian director

Dziga Vertov in 1929 will serve
as our guide to the language of

new media.

[15]

Man with a Movie Camera is perhaps the most important example of database imagination in modern media art.

It would be only a small leap to relate this density of "pictorial displays" to the density of contemporary information displays such as Web portals which may contain a few dozen hyperlinked elements; or the interfaces of popular software packages which similarly present the user with dozens commands at once.

## [21]

Avant-garde aesthetic strategies became embedded in the commands and interface metaphors of computer software.

[6]

The prologue thus acts as a visual index to some of the book's ideas.

[18]

Why in the case of Witney's computer films and music videos the effects are just effects, while in the hands of Vertov they acquire meaning?

[31]

Tetronics is a vector rather than raster terminal, which means that it does not update its screen in real time.

[22]

Cinema's birth from a loop form was reenacted at least once during its history.

[9]

Editing, or montage, is the key twentieth technology for creating fake realities.

[14]

It is a realistic representation of human vision in the future when it will be augmented by computer graphics and cleansed from noise.

# [24]

Cinema followed this logic of industrial production as well.

[14]

It is a realistic representation of human vision in the future when it will be augmented by computer graphics and cleansed from noise.

[6]

This prologue consists of a number of stills from the film.

[31]

At the same time, along with existing cultural forms, during the 1990s computers came to host an array of new forms: Web sites and computer games, hypermedia CD-ROMs and interactive installations—in short, "new media."

[36]

So I settle for a composition made out of these primitive forms.

A hundred years after cinema's birth, cinematic ways of seeing the world, of structuring time, of narrating a story, of linking one experience to the next, are being extended to become the basic ways in which computer users access and interact with all cultural data.

#### [24]

Spatial montage represents an alternative to traditional cinematic temporal montage, replacing its traditional sequential mode with a spatial one.

#### [21]

The avant-garde move to combine animation, printed texts and live action footage is repeated in the convergence of animation, title generation, paint, compositing and editing systems into single all-in-one packages.

## [11]

While the dominant use of digital compositing is to create a seamless virtual space, it does not have to be subordinated to this goal.

[13]

"Modernization is accompanied by the process of disruption of physical space and matter, the process which privileges interchangeable and mobile signs over the original objects and relations. [6]

Each still is accompanied by quote from the text summarizing a particular principle of new media.

#### [21]

Under the black semi-spherical ceiling with mandatory models of planets and stars, a young artist was methodically painting an abstract painting.

[9]

Theoreticians of cinema have distinguished between many kinds of montage but, for the purposes of sketching the archeology of the technologies of simulation leading to digital compositing, I will distinguish between two basic techniques.

#### [10]

"As theorized by Vertov, through [temporal] montage, film can overcome its indexical nature, presenting a viewer with objects which never existed in reality."

[30]

It is more difficult because, in contrast to casts of male heads such as Socrates, it does not have well-defined facets; the surfaces join smoothly together as though constructed using a spline modeling program.

[9]

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#### [17]

Rather, it proposes an untamed, and apparently endless unwinding of cinematic techniques, or, to use contemporary language, 'effects', as cinema's new way of speaking."

# [131] Synthetic Realism and its Discontents

#### [23]

Programming involves altering the linear flow of data through control structures, such as 'if/then' and 'repeat/while'; the loop is the most elementary of these control structures....

[23]

A computer program progresses from start to end end by executing a series of loops.

#### [11]

The borders between different worlds do not have to be erased; the different spaces do not have to be matched in perspective, scale and lighting; the individual layers can retain their separate identity rather then being merged into a single space; the different worlds can clash semantically rather than form a single universe.

[13]

Modernization is accompanied by the process of disruption of physical space and matter, the process which privileges interchangeable and mobile signs over the original objects and relations.

[30]

I have just finished my night shift at Digital Effects, one of the first companies in the world devoted to producing 3D computer animation for film and

television.

[24]

Ford's assembly line relied on the separation of the production process into a set of repetitive, sequential, and simple activities.

#### [35]

In answering these questions, I draw upon the histories of art, photography, video, telecommunication, design and, last but not least, the key cultural form of the twentieth century—cinema.

[24]

Spatial montage represents an alternative to traditional cinematic temporal montage, replacing its traditional sequential mode with a spatial one.

[9]
The second technique is montage within a shot.

[16]

One level is the story of a cameraman filming material for the film.

# [32] Theory of the Present

[18]

Where were they at the moment when the designers of Myst were debugging their code, converting graphics to 8-bit and massaging QuickTime clips?

Directing the virtual camera becomes as important as controlling the hero's actions... the computer games are returning to "The New Vision" movement of the 1920s (Moholy-Nagy, Rodchenko, Vertov and others), which foregrounded new mobility of a photo and film camera, and made unconventional points of view the key part of their poetics.

# [15]

Along with Greenaway, Dziga Vertov can be thought of as a major 'database filmmaker' of the twentieth century. [6]

The prologue thus acts as a visual index to some of the book's ideas.

## [12]

Along with disregarding the scale, the unique locations of the objects are discarded as well as their photographs brought together within a single picture magazine or a film newsreel, the forms which fit in with the demand of mass democratic society for 'the universal equality of things.'

A Man with a Movie Camera is not only a database of city life in the 1920s, a database of film techniques, and a database of new operations of visual epistemology, but it is also a database of new interface operations which together aim to go beyond a simple human navigation through a physical space.

# [76]

When you use the Internet, everything you access — texts, music, video, navigable spaces — passes through the interface of the browser and then, in its turn, the interface of the OS.

[8]

The incorporation of virtual camera controls into the very hardware of a game consoles is truly a historical event.

[38]

In putting the word "language" into the title of the book, I did not want to suggest that there is some "single" language of new media or that we need to return to the structuralist phase of semiotics in understanding new media.

[6]

The number in brackets indicates a page from which the quote is taken.

[8]

The incorporation of virtual camera controls into the very hardware of a game consoles is truly a historical event.

A hundred years after cinema's birth, cinematic ways of seeing the world, of structuring time, of narrating a story, of linking one experience to the next, are being extended to become the basic ways in which computer users access and interact with all cultural data.

Directing the virtual camera becomes as important as controlling the hero's actions... the computer games are returning to "The New Vision" movement of the 1920s (Moholy-Nagy, Rodchenko, Vertov and others), which foregrounded new mobility of a photo and film camera, and made unconventional points of view the key part of their poetics.

[35]

The computerization of culture not only leads to the emergence of new cultural forms such as computer games and virtual worlds; it redefines existing ones such as photography and cinema.

And if in 1985 I had to write a long computer program in a specialized computer language just to put a picture of a shaded cube on a computer screen, ten years later I can choose from a number of inexpensive, menu-based 3D software tools which run on ordinary PCs and which come with numerous readymade 3D models, including detailed human figures and heads.

[13]

The concept of modernization fits equally well Benjamin's account of film and Virilio's account of telecommunication, the latter just being a more advanced stage in this continual process of turning objects into mobile signs.

Classical art, abstraction and a Nintendo Dataglove; electronic music and early twentieth century modernism; discussions of virtual reality (VR) in a Planetarium located in this classical city which, like Venice, is obsessed with its past—what for me, coming from the West, were incompatible historical and conceptual layers were here composited together, with the Nintendo Dataglove being just one layer in this mix.

#### [16]

Just as new media objects
contain a hierarchy of levels
(interface - content; operating
system - application; Web page HTML code; high-level
programming language - assembly
language - machine language),
Vertov's film consists of at
least three levels.

[7]

In this way, the computer fulfills the promise of cinema as a visual Esperanto which precocupied many film artists and critics in the 1920s, from Griffith to Vertov.

[26]

Avant-garde aesthetic strategies became embedded in the commands and interface metaphors of computer software.

[13]

Before, different physical locations met within a single magazine spread or a film newsreel; now, they meet within a single electronic screen.

#### [16]

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[34]

What is unique about how new media objects create the illusion of reality, address the viewer, and represent space and time?

# [25]

Since the Xerox Park Alto workstation, GUI used multiple windows.

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## [14]

Synthetic computer-generated image is not an inferior representation of our reality, but a realistic representation of a different reality.

We may expect that computer-based cinema will eventually have to follow the same direction — especially when the limitations of communication bandwidth will disappear, while the resolution of displays will significantly increase, from the typical 1-2K in 2000 to 4K, 8K or beyond.

## [26]

Just as painting before it, cinema presented us with familiar images of visible reality — interiors, landscapes, human characters — arranged within a rectangular frame.

A Man with a Movie Camera is not only a database of city life in the 1920s, a database of film techniques, and a database of new operations of visual epistemology, but it is also a database of new interface operations which together aim to go beyond a simple human navigation through a physical space.