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Orality and Literacy

THE PROPERTY OF THE STREET

The Technologizing of the Word

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more under control – but only seems to be, for real, indivisible time carries us to real death. (This is not to deny that spatial reductionism is immeasurably useful and technologically necessary, but only to say that its accomplishments are intellectually limited, and can be deceiving.) Similarly, we reduce sound to oscillograph patterns and to waves of certain 'lengths', which can be worked with by a deaf person who can have no knowledge of what the experience of sound is. Or we reduce sound to script and to the most radical of all scripts, the alphabet.

Oral man is not so likely to think of words as 'signs', quiescent visual phenomena. Homer refers to them with the standard epithet 'winged words' – which suggests evanescence, power, and freedom: words are constantly moving, but by flight, which is a powerful form of movement, and one lifting the flier free of the ordinary, gross, heavy, 'objective' world.

In contending with Jean Jacques Rousseau, Derrida is of course quite correct in rejecting the persuasion that writing is no more than incidental to the spoken word (Derrida 1976, p. 7). But to try to construct a logic of writing without investigation in depth of the orality out of which writing emerged and in which writing is permanently and ineluctably grounded is to limit one's understanding, although it does produce at the same time effects that are brilliantly intriguing but also at times psychedelic, that is, due to sensory distortions. Freeing ourselves of chirographic and typographic bias in our understanding of language is probably more difficult than any of us can imagine, far more difficult, it would seem, than the 'deconstruction' of literature, for this 'deconstruction' remains a literary activity. More will be said about this problem in treating the internalizing of technology in the

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## WRITING RESTRUCTURES CONSCIOUSNESS

## THE NEW WORLD OF AUTONOMOUS DISCOURSE

A deeper understanding of pristine or primary orality enables us better to understand the new world of writing, what it truly is, and what functionally literate human beings really are: beings whose thought processes do not grow out of simply natural powers but out of these powers as structured, directly or indirectly, by the technology of writing. Without writing, the literate mind would not and could not think as it does, not only when engaged in writing but normally even when it is composing its thoughts in oral form. More than any other single invention, writing has transformed human consciousness.

Writing establishes what has been called 'context-free' language (Hirsch 1977, pp. 21–3, 26) or 'autonomous' discourse (Olson 1980a), discourse which cannot be directly questioned or contested as oral speech can be because written discourse has been detached from its author.

Oral cultures know a kind of autonomous discourse in fixed ritual formulas (Olson 1980a, pp. 187–94; Chafe 1982), as well as in vatic sayings or prophesies, for which the utterer himself or herself is considered only the channel, not the source. The Delphic oracle was not

responsible for her oracular utterances, for they were held to be the voice of the god. Writing, and even more print, has some of this vatic quality. Like the oracle or the prophet, the book relays an utterance from a source, the one who really 'said' or wrote the book. The author might be challenged if only he or she could be reached, but the author cannot be reached in any book. There is no way directly to refute a text. After absolutely total and devastating refutation, it says exactly the same thing as before. This is one reason why 'the book says' is popularly tantamount to 'it is true'. It is also one reason why books have been burnt. A text stating what the whole world knows is false will state falsehood forever, so long as the text exists. Texts are inherently contumacious.

## PLATO, WRITING AND COMPUTERS

also holds it against writing that the written word cannot defend exist essentially in a context of give-and-take between real persons itself as the natural spoken word can: real speech and thought always keeping with the agonistic mentality of oral cultures, Plato's Socrates or her statement, you can get an explanation; if you ask a text, you get puter, the same objection is put, 'Garbage in, garbage out'. Fourthly, in your question in the first place. In the modern critique of the comback nothing except the same, often stupid, words which called for written text is basically unresponsive. It you ask a person to explain his weaken the mind, relieve it of the work that keeps it strong. Thirdly, a calculators provide an external resource for what ought to be the Writing weakens the mind. Today, parents and others fear that pocket ing on an external resource for what they lack in internal resources destroys memory. Those who use writing will become forgetful, relycourse is said of computers. Secondly, Plato's Socrates urges, writing be only in the mind. It is a thing, a manufactured product. The same of inhuman, pretending to establish outside the mind what in reality can against writing. Writing, Plato has Socrates say in the Phaedrus, is were urged by Plato in the Phaedrus (274-7) and in the Seventh Letter tially the same objections commonly urged today against computers Most persons are surprised, and many distressed, to learn that essenresource of memorized multiplication tables. Calculators

Writing is passive, out of it, in an unreal, unnatural world. So are computers.

A fortiori, print is vulnerable to these same charges. Those who are disturbed by Plato's misgivings about writing will be even more disturbed to find that print created similar misgivings when it was first introduced. Hieronimo Squarciafico, who in fact promoted the printing of the Latin classics, also argued in 1477 that already 'abundance of books makes men less studious' (quoted in Lowry 1979, pp. 29–31): it destroys memory and enfeebles the mind by relieving it of too much work (the pocket-computer complaint once more), downgrading the wise man and wise woman in favor of the pocket compendium. Of course, others saw print as a welcome leveler: everyone becomes a wise man or woman (Lowry 1979, pp. 31–2).

One weakness in Plato's position was that, to make his objections effective, he put them into writing, just as one weakness in anti-print positions is that their proponents, to make their objections more effective, put the objections into print. The same weakness in anti-computer positions is that, to make them effective, their proponents articulate them in articles or books printed from tapes composed on computer terminals. Writing and print and the computer are all ways of technologizing the word. Once the word is technologized, there is no effective way to criticize what technology has done with it without the aid of the highest technology available. Moreover, the new technology is not merely used to convey the critique: in fact, it brought the critique into existence. Plato's philosophically analytic thought, as has been seen (Havelock 1963), including his critique of writing, was possible only because of the effects that writing was beginning to have on mental processes.

In fact, as Havelock has beautifully shown (1963), Plato's entire epistemology was unwittingly a programmed rejection of the old oral, mobile, warm, personally interactive lifeworld of oral culture (represented by the poets, whom he would not allow in his Republic). The term idea, form, is visually based, coming from the same root as the Latin video, to see, and such English derivatives as vision, visible, or videotape. Platonic form was form conceived of by analogy with visible form. The Platonic ideas are voiceless, immobile, devoid of all warmth, not interactive but isolated, not part of the human lifeworld at all but

utterly above and beyond it. Plato of course was not at all fully aware of the unconscious forces at work in his psyche to produce this reaction, or overreaction, of the literate person to lingering, retardant orality.

Such considerations alert us to the paradoxes that beset the relationships between the original spoken word and all its technological transformations. The reason for the tantalizing involutions here is obviously that intelligence is relentlessly reflexive, so that even the external tools that it uses to implement its workings become 'internalized', that is, part of its own reflexive process.

epitaph'. In Pippa Passes, Robert Browning calls attention to the still own death, on to and beyond Henry Vaughan's assurance to Sir Thoto his three books of Odes as a 'monument' (Odes iii.30.1), presaging his ans 3:6, "The letter kills but the spirit gives life" and Horace's reference print) traceable in printed dictionaries of quotations, from 2 Corinthi also abundantly evident in countless references to writing (and/or widespread practice of pressing living flowers to death between the mas Bodley that in the Bodleian Library at Oxford 'every book is thy that writing is inhuman, thing-like, and that it destroys memory. It is association with death. This association is suggested in Plato's charge pp. 230-71) contexts by a potentially infinite number of living readers (Ong 1977 endurance and its potential for being resurrected into limitless living from the living human lifeworld, its rigid visual fixity, assures its The paradox lies in the fact that the deadness of the text, its removal The dead flower, once alive, is the psychic equivalent of the verbal text pages of printed books, 'faded yellow blossoms/twixt page and page' One of the most startling paradoxes inherent in writing is its close

### WRITING IS A TECHNOLOGY

Plato was thinking of writing as an external, alien technology, as many people today think of the computer. Because we have by today so deeply interiorized writing, made it so much a part of ourselves, as Plato's age had not yet made it fully a part of itself (Havelock 1963), we find it difficult to consider writing to be a technology as we commonly assume printing and the computer to be. Yet writing (and especially alphabetic writing) is a technology, calling for the use of tools and

other equipment: styli or brushes or pens, carefully prepared surfaces such as paper, animal skins, strips of wood, as well as inks or paints, and much more. Clanchy (1979, pp. 88–115) discusses the matter circumstantially, in its western medieval context, in his chapter entitled "The technology of writing". Writing is in a way the most drastic of the three technologies. It initiated what print and computers only continue, the reduction of dynamic sound to quiescent space, the separation of the word from the living present, where alone spoken words

By contrast with natural, oral speech, writing is completely artificial. By contrast with natural, oral speech, writing is completely artificial. There is no way to write 'naturally'. Oral speech is fully natural to human beings in the sense that every human being in every culture who is not physiologically or psychologically impaired learns to talk. Talk implements conscious life but it wells up into consciousness Talk implements conscious life but it wells up into conscious as well out of unconscious depths, though of course with the conscious as well as unconscious co-operation of society. Grammar rules live in the as unconscious in the sense that you can know how to use the rules and unconscious in the sense that you can know how to state what they are even how to set up new rules without being able to state what they are.

Writing or script differs as such from speech in that it does not inevitably well up out of the unconscious. The process of putting spoken language into writing is governed by consciously contrived, spoken language into writing is governed by consciously contrived, a articulable rules: for example, a certain pictogram will stand for a certain specific word, or a will represent a certain phoneme, b another, certain so on. (This is not to deny that the writer–reader situation created and so on. (This is not to deny that the writer–reader situation created by writing deeply affects unconscious processes involved in composing in writing, once one has learned the explicit, conscious rules. More about this later.)

To say writing is artificial is not to condemn it but to praise it. Like other artificial creations and indeed more than any other, it is utterly invaluable and indeed essential for the realization of fuller, interior, human potentials. Technologies are not mere exterior aids but also interior transformations of consciousness, and never more than when they affect the word. Such transformations can be uplifting. Writing heightens consciousness. Alienation from a natural milieu can be good for us and indeed is in many ways essential for full human life. To live and to understand fully, we need not only proximity but also distance. This writing provides for consciousness as nothing else does.

natural to human beings. Technology, properly interiorized, does

Technologies are artificial, but - paradox again - artificiality is

not degrade human life but on the contrary enhances it. The mod-

among the Sumerians in Mesopotamia only around the year 3500 BC

ing devices such as the quipu of the Incas (a stick with suspended cords used by various societies: a notched stick, rows of pebbles, other tally-(Diringer 1953; Gelb 1963) supplied, it might: but a code is not picturable, unless with the help of a tree of itself says nothing. (If a proper code or set of conventions is pictures. Pictures represent objects. A picture of a man and a house and mere memory aid. Even when it is pictographic, a script is more than onto which other cords were tied), the 'winter count' calendars of the before this. And various recording devices or aides-mémoire had been another unpicturable code. Codes ultimately have to be explained by Native American Plains Indians, and so on. But a script is more than a writing, as understood here, does not consist of mere pictures, of human context, humanly understood.) A script in the sense of true something more than pictures; that is, either in words or in a total representations of things, but is a representation of an utterance, of words Human beings had been drawing pictures for countless millennia

ern orchestra, for example, is the result of high technology. A violin is an instrument, which is to say a tool. An organ is a huge machine, with sources of power – pumps, bellows, electric generators – totally outside its operator. Beethoven's score for his Fifth Symphony consists of very careful directions to highly trained technicians, specifying exactly how to use their tools. Legato: do not take

your finger off one key until you have hit the next. Staccato: hit the key and take your finger off immediately. And so on. As music-

that someone says or is imagined to say. able to the antiquity of speech. However, investigations of writing what is meant by writing, the antiquity of writing is perhaps comparmeaning to. Thus a simple scratch on a rock or a notch on a stick is, any visible or sensible mark which an individual makes and assigns a interpretable only by the one who makes it would be 'writing'. If this is species of animals for communication - Wilson 1975, pp. 228-9) assigned meaning merge writing with purely biological behavior. which take 'writing' to mean any visible or sensible mark with an unique breakthrough into new worlds of knowledge was achieved within human consciousness not when simple semiotic marking was include any semiotic marking trivializes its meaning. The critical and become 'writing'? Using the term 'writing' in this extended sense to When does a footprint or a deposit of feces or urine (used by many would generate from the text. This is what we usually mean today by whereby a writer could determine the exact words that the reader devised but when a coded system of visible marks was invented It is of course possible to count as 'writing' any semiotic mark, that

writing in its sharply tocused sense. With writing or script in this full sense, encoded visible markings

## WHAT IS 'WRITING' OR 'SCRIPT'?

human spirit, intensify its interior life. Writing is an even more deeply interiorized technology than instrumental musical performance is. But to understand what it is, which means to understand it in relation to its past, to orality, the fact that it is a technology must be honestly

organist can express something poignantly human that cannot be expressed without the mechanical contrivance. To achieve such expression of course the violinist or organist has to have interiorized the

technology, made the tool or machine a second nature, a psycho-

logical part of himself or herself. This calls for years of 'practice'

learning how to make the tool do what it can do. Such shaping of a tool to oneself, learning a technological skill, is hardly dehumanizing

The use of a technology can enrich the human psyche, enlarge the

ologists well know, it is pointless to object to electronic compositions such as Morton Subotnik's The Wild Bull on the grounds that the sounds come out of a mechanical contrivance. What do you think the sounds of an organ come out of? Or the sounds of a violin or even of a whistle?

The fact is that by using a mechanical contrivance, a violinist or an

Writing, in the strict sense of the word, the technology which has shaped and powered the intellectual activity of modern man, was a very late development in human history. Homo squens has been on earth perhaps some 50,000 years (Leakey and Lewin 1979, pp. 141 and 168). The first script, or true writing, that we know, was developed

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of still more exquisite structures and references, far surpassing the complexity and, because visibly recorded, can implement production ences evolved in sound can be visibly recorded exactly in their specific engage words fully so that the exquisitely intricate structures and referwriting, but they do not restructure the human lifeworld as true thought as well. Notches on sticks and other aides-mémoire lead up to aural to a new sensory world, that of vision, it transforms speech and mere appendage to speech. Because it moves speech from the oralthe most momentous of all human technological inventions. It is not a potentials of oral utterance. Writing, in this ordinary sense, was and is

reader will read off, as in the system developed by the Vai in Liberia coded systems the writer can predict only approximately what the cruder use of mere memory aides. Intermediate stages exist. In some over. Even with the alphabet, extra-textual context is sometimes tive (pronounced to rhyme with 'reed') indicating that it is to be gone cating that the document has been gone over, or it might be an imperathis is never quite perfect in all instances. If I mark a document 'read', this might be a past participle (pronounced to rhyme with 'red') indi-The tightest control of all is achieved by the alphabet, although even needed, but only in exceptional cases – how exceptional will depend (Scribner and Cole 1978) or even in ancient Egyptian hieroglyphics. on how well the alphabet has been tailored to a given language. True writing systems can and usually do develop gradually from a

## MANY SCRIPTS BUT ONLY ONE ALPHABET

mian cuneiform 3500 BC (approximate dates here from Diringer one another (Diringer 1953; Diringer 1960; Gelb 1963): Mesopota-Many scripts across the world have been developed independently of 50, Aztec script AD 1400. Valley script 3000-2400 BC, Chinese script 1500 BC, Mayan script AD from cuneiform), Minoan or Mycenean 'Linear B' 1200 Bc, Indus 1962), Egyptian hieroglyphics 3000 BC (with perhaps some influence

perhaps, at an even more elemental level, to the use of tokens. It has directly or indirectly to some sort of picture writing, or, sometimes Scripts have complex antecedents. Most if not all scripts trace back

> all known scripts (c. 3500 BC), grew at least in part out of a system of been suggested that the cuneiform script of the Sumerians, the first of recording economic transactions by using clay tokens encased in small, they represented – say, seven little clay artefacts distinctively shaped, to tions on the outside representing the tokens inside (Schmandt-Besserat hollow but totally closed pod-like containers or bullae, with indentaattached. The economic setting of such prechirographic use of tokens represent cows, or ewes or other things not yet decipherable - as indentations - carried with them, inside the bulla, evidence of what 1978). Thus the symbols on the outside of the bulla - say, seven served mostly workaday economic and administrative purposes in from the same region as the bullae, whatever its exact antecedents, could help associate them with writing, for the first cuneiform script, though words were always proffered with their concrete significations urban societies. Urbanization provided the incentive to develop record the more specific sense of this term, comes quite late in the history of been used in tales or lyric, that is, using writing to produce literature in keeping. Using writing for imaginative creations, as spoken words have

with a code enabling them to represent more or less exactly specific writing is still today basically made up of pictures, but pictures stylized words in various grammatical relation to each other. Chinese character and codified in intricate ways which make it certainly the most comobjects served as a kind of allegorical memorandum for parties who the code remained too unfixed. Pictographic representations of several others (Mackay 1978, p. 32) did not develop into a true script because cation such as found among early Native American Indians and many plex writing system the world has ever known. Pictographic communiin advance how these particular pictures related to each other. But were dealing with certain restricted subjects which helped determine often, even then, the meaning intended did not come entirely clear. Pictures can serve simply as aides-mémoire, or they can be equipped

graph a stylized picture of two trees does not represent the words 'two graph, in which the meaning is a concept not directly represented by tree), scripts develop other kinds of symbols. One kind is the ideothe picture but established by code: for example, in the Chinese picto-Out of pictographs (a picture of a tree represents the word for a

and 2 ('two') relate to the concepts '1st' and '2nd' but not to the words a given language, the signs 1, 2, 3 and so on are in a way connected side-by-side represent the word 'good', and so on. The spoken word directly with the concept rather than the word: the words for 1 ('one') represent the same concept but not the same sound in languages which Chinese speakers who cannot write. In a special sense, numerals such as ogy. Writers of Chinese relate to their language quite differently from mology, as here, need have no relationship to the phonemic etymoltrees' but the word 'woods'; stylized pictures of a woman and child have entirely different words for 1, 2, 3. And even within the lexicon of 1, 2, 3 are interlinguistic ideographs (though not pictographs): they for woman is [ny], for child  $[dz\partial]$ , for good [hau]: the pictorial ety-'first' and 'second'

nated not by an abstract coded sign, as a letter of the alphabet, but by a and a key in that order could represent the word 'Milwaukee'). Since at picture of one of the several things the sound signifies. phonogram (sound-symbol), but only mediately: the sound is desigthis point the symbol represents primarily a sound, a rebus is a kind of sense of only, or soul as paired with body; pictures of a mill, a walk, of a foot could represent in English also the fish called a sole, sole in the Another kind of pictograph is rebus writing (the picture of the sole

will be replaced by the roman alphabet as soon as all the people in the system normally takes some twenty years. Such a script is basically can understand. To become significantly learned in the Chinese writing Chinese who write can write all of the spoken Chinese words that they characters. No Chinese or Sinologist knows them all, or ever did. Few a dismaying number of symbols. Chinese is the largest, most complex, using over 40,000 characters ture will be enormous, but not so enormous as a Chinese typewriter lect'), the Mandarin now being taught everywhere. The loss to litera-People's Republic of China master the same Chinese language ('diatime-consuming and élitist. There can be no doubt that the characters and richest: the K'anghsi dictionary of Chinese in AD 1716 lists 40,545 All pictographic systems, even with ideographs and rebuses, require

guages, mutually incomprehensible, though basically of the same speaking different Chinese 'dialects' One advantage of a basically pictographic system is that persons (really different Chinese lan-

> a Vietnamese and an Englishman will know what each other means by the same character (picture), somewhat as a Frenchman and a Luba and understand one another's writing. They read off different sounds for characters are basically pictures, though exquisitely stylized, as 1, 2, 3 numeral if pronounced by one of the others. (However, the Chinese the Arabic numerals 1, 2, 3, and so on, but will not recognize the structure) who are unable to understand one another's speech can

syllabaries are less developed than Japanese. In that of the Vai in Liberia clusters, English could not be effectively managed in a syllabary. Some syllable), with no consonant clusters (as in 'pitchfork', 'equipment'). sonantal sound followed by a vowel sound (n functions as a quasi script: its words are made up of parts always consisting of a con ko, ku, five others for ma, me, mi, mo, mu, and so on. The Japanese Katakana syllabary has five separate symbols respectively for ka, ke, ki, sents a consonant and a following vowel sound. Thus the Japanese even for a skilled scribe (Scribner and Cole 1978, p. 456). kind of map to the utterance it registers, and it is very difficult to read visual symbols and the units of sound. The writing provides only a With its many different kinds of syllables, and its frequent consonant language happens to be so constituted that it can utilize a syllabary for example, there is not a full one-to-one correspondence between the Some languages are written in syllabaries, in which each sign repre-

symbols were pictographs, some ideographs, some rebuses); Chinese scripts to start with pictographs and move to ideographs and rebuses, rebuses, and various combinations, often of extreme complexity, culcharacter writing itself is hybrid (mixed pictographs, ideographs, own way); the ancient Egyptian hieroglyphic system was hybrid (some most efficient of all alphabets, it uses Chinese characters pronounced its uses Chinese characters, pronounced in its own non-Chinese way); the more principles. The Japanese system is hybrid (besides a syllabary, it perhaps most writing systems other than the alphabet are to some tural richness and poetic beauty). Indeed, because of the tendency of Korean system is hybrid (besides hangul, a true alphabet, perhaps the writes 1 instead of one degree hybrid. And even alphabetic writing becomes hybrid when it Many writing systems are in fact hybrid systems, mixing two or

or another from the original Semitic development, though, as in Ugar-Roman, Cyrillic, Arabic, Tamil, Malayalam, Korean -- derives in one way Semitic.) Every alphabet in the world - Hebrew, Ugaritic, Greek variants of the original alphabet, the North Semitic and the South be related to the Semitic design. itic and Korean script, the physical design of the letters may not always later than the cuneiform. (Diringer 1962, pp. 121-2, discusses the two where the first of all scripts appeared, the cuneiform, but two millennia peoples around the year 1500 BC, in the same general geographic area invented only once. It was worked up by a Semitic people or Semitic The most remarkable fact about the alphabet no doubt is that it was

read when words are written only with consonants. ways, and the Semitic languages are so constituted that they are easy to up to the third grade or so. Languages are organized in many different proper vowel, were added to many texts, often for the benefit of those meaning 'no'). Late in the history of the Hebrew alphabet, vowel ant in Hebrew and other Semitic alphabets, representing a glottal stop vowel alpha, which became our roman 'a', is not a vowel but a consonsonants'. The letter aleph, adapted by the ancient Greeks to indicate the are in effect the consonantal forms of [i] and [u]): if we were to follow who did not know the language very well, and today in Israel these Hebrew usage in English we would write and print 'cnsnts' for 'conprints only consonants (and so-called semi-vowels [j] and [w], which day have letters for vowels. A Hebrew newspaper or book still today (the sound between the two vowel sounds in the English 'huh-uh' points' are added to words for very young children learning to read – points', little dots and dashes below or above the letters to indicate the Hebrew and other Semitic languages, such as Arabic, do not to this

below the line) just as vowels are added to our consonants. And when vowel points are used, they are added to the letters (above or has to add whatever vowel sound the word and context call for. Besides when it in fact simply represents the phoneme [b], to which the reader somewhat awkward to think of the Hebrew letter beth (b) as a syllable perhaps an unvocalized or 'reduced' syllabary. However, it appears to call what other linguists call the Hebrew alphabet a syllabary, or in 'you', w) has led some linguists (Gelb 1963; Havelock 1963, p. 129) This way of writing only with consonants and semi-consonants (y as

> of the development of writing out of orality, it appears at least agree that both are writing letters in an alphabet. For an understanding and easily supply the appropriate vowels. consonants (and semivowels) for which readers, as they read, simply unobjectionable to think of the Semitic script simply as an alphabet of modern Israelis and Arabs, who agree on so little else, both generally

ance when they developed the first alphabet complete with vowels alphabet was more remote from that world (as Plato's ideas were to much immersed in the non-textual human lifeworld. The vocalic Greek vowels to supply between the consonants. Semitic writing was still very had to know the language he was reading in order to know what Semitic writing had to draw on non-textual as well as textual data: he intellectual ascendancy over other ancient cultures. The reader of ation of the word from sound to sight gave ancient Greek culture its Havelock (1976) believes that this crucial, more nearly total transformappear that the Greeks did something of major psychological importalphabet when they were very young and their vocabulary limited. (It ences between languages). Little children could acquire the Greek not know (allowing for some inaccuracies due to phonemic differ-It could be used to write or read words even from languages one did be). It analyzed sound more abstractly into purely spatial components. presaged and implemented their further analytic exploits. visual equivalents (not perfectly, of course, but in effect fully) both achievement in abstractly analyzing the elusive world of sound into Hebrew script.) The Greek alphabet was democratizing in the sense grade vowel 'points' have to be added to the ordinary consonantal has just been noted that for Israeli schoolchildren to about the third that it provided a way of processing even foreign tongues. This Greek that it was easy for everyone to learn. It was also internationalizing in When this is all said, however, about the Semitic alphabet, it does

neurophysiological grounds fosters abstract, analytic thought. alphabet favors left-hemisphere activity in the brain, and thus or that, more than other writing systems, the completely phonetic but crucial intellectual advantage. Kerckhove (1981) has suggested omission of vowels from writing, turned out to be a perhaps accidenta it was not based on a system like the Semitic that was hospitable to It appears that the structure of the Greek language, the fact that

The reason why the alphabet was invented so late and why it was invented only once can be sensed if we reflect on the nature of sound. For the alphabet operates more directly on sound as sound than the other scripts, reducing sound directly to spatial equivalents, and in smaller, more analytic, more manageable units than a syllabary: instead of one symbol for the sound ba, you have two, b plus a.

Sound, as has earlier been explained, exists only when it is going out of existence. I cannot have all of a word present at once: when I say 'existence', by the time I get to the '-tence', the 'exis-' is gone. The alphabet implies that matters are otherwise, that a word is a thing, not an event, that it is present all at once, and that it can be cut up into little pieces, which can even be written forwards and pronounced backwards: 'p-a-r-t' can be pronounced 'trap'. If you put the word 'part' on a sound tape and reverse the tape, you do not get 'trap', but a completely different sound, neither 'part' nor 'trap'. A picture, say, of a bird does not reduce sound to space, for it represents an object, not a word. It will be the equivalent of any number of words, depending on the language used to interpret it: oiseau, uccello, pájaro, Vogel, sae, tori, 'bird'.

All script represents words as in some way things, quiescent objects, immobile marks for assimilation by vision. Rebuses or phonograms, which occur irregularly in some pictographic writing, represent the sound of one word by the picture of another (the 'sole' of a foot representing the 'soul' as paired with body, in the fictitious example used above). But the rebus (phonogram), though it may represent several things, is still a picture of one of the things it represents. The alphabet, though it probably derives from pictograms, has lost all connection with things as things. It represents sound itself as a thing, transforming the evanescent world of sound to the quiescent, quasi-permanent world of space.

The phonetic alphabet invented by ancient Semites and perfected by ancient Greeks, is by far the most adaptable of all writing systems in reducing sound to visible form. It is perhaps also the least aesthetic of all major writing systems: it can be beautifully designed, but never so exquisitely as Chinese characters. It is a democratizing script, easy for everybody to learn. Chinese character writing, like many other writing systems, is intrinsically élitist: to master it thoroughly requires protracted leisure. The democratizing quality of the alphabet can be seen

in South Korea. In Korean books and newspapers the text is a mixture of alphabetically spelt words and hundreds of different Chinese characters. But all public signs are always written in the alphabet alone, which virtually everyone can read since it is completely mastered in the lower grades of elementary school, whereas the 1800 han, or Chinese characters, minimally needed besides the alphabet for reading most literature in Korean, are not commonly all mastered before the end of secondary school.

achievement was predictable. The alphabet was used only for ocratization of Korea, did the alphabet achieve its present (still less than known as élitist. Only in the twentieth century, with the greater demtrained themselves. Serious literature was élitist and wanted to be to use the Chinese character writing in which they had so laboriously unscholarly, practical, vulgarian purposes. 'Serious' writers continued text in Chinese characters. But the reception of this remarkable produce an alphabetic script with something of the appearance of a accommodation to Korean phonemics and aesthetically designed to ready in three years, a masterful achievement, virtually perfect in its generations. Sejong's assembly of scholars had the Korean alphabet of the alphabet to a given language has generally taken many years, or that he had comparably powerful ego structures. The accommodation Sejong's decree in the face of massive anticipated resistance suggests ously acquired skills obsolete. But the Yi Dynasty was powerful and to welcome a new writing system which would render their laboriing the complicated Sino-Korean chirography. They were hardly likely write – had spent or were spending the better part of their lives master. nese). Thousands upon thousands of Koreans – all Koreans who could words, mostly so Koreanized as to be incomprehensible to any Chilanguage not at all related to Chinese (though it has many Chinese loan ously adapted to fit (and interact with) the vocabulary of Korean, a time Korean had been written only with Chinese characters, laboriasty decreed that an alphabet should be devised for Korean. Up to that alphabet was in Korea, where in AD 1443 King Sejong of the Yi Dyn-Perhaps the most remarkable single achievement in the history of the

### THE ONSET OF LITERACY

too remarkable to throw away. newspapers, cartons, receipts (Achebe 1961, pp. 120-1). It all seemed hoarded in his house every bit of printed material that came his way describes how in an Ibo village the one man who knew how to read manence they confer on words. The Nigerian novelist Chinua Achebe 3), but they also can be valued simply because of the wonderful per-Scraps of writing are used as magic amulets (Goody 1968b, pp. 201of medieval Northern Europe was commonly associated with magic 'Glamor girls' are really grammar girls. The futhark or runic alphabet our present English vocabulary as 'glamor' (spell-casting power). magical lore, and through one Scottish dialectical form has emerged in or grammar, referring to book-learning, came to mean occult or writing can still show etymologically: the Middle English 'grammarye' power (Goody 1968b, p. 236). Traces of this early attitude toward its way from outside into a particular society, it does so necessarily a Writing is often regarded at first as an instrument of secret and magic first in restricted sectors and with varying effects and implications When a fully formed script of any sort, alphabetic or other, first makes

hope that cargo will turn up for their own possession and use (Meggitt sea, and they elaborate various rituals manipulating written texts in the magical instruments to make ships and cargo come in from across the receipts, and the like – that they know figure in shipping operations are literates think that the commercial papers - orders, bills of lading, 1968, pp. 300-9). In ancient Greek culture Havelock discovers a cults' of some South Pacific islands are well known: illiterates or semi-(Goody 1968a, p. 16, quoting R. B. Eckvall). The still flourishing 'cargo charms and formulas on the surface of the water with woodcut blocks' Tibetan monks used to sit on the banks of streams 'printing pages of wheels bearing texts they cannot read (Goody 1968a, pp. 15-16) from rubbing the book on their foreheads, or from whirling prayerrestricted to special groups such as the clergy (Tambiah 1968, pp. 113ous to the unwary reader, demanding a guru-like figure to mediate 14). Texts can be felt to have intrinsic religious value: illiterates profi between reader and text (Goody and Watt 1968, p. 13). Literacy can be Some societies of limited literacy have regarded writing as danger

general pattern of restricted literacy applicable to many other cultures: shortly after the introduction of writing a 'craft literacy' develops (Havelock 1963; cf. Havelock and Herschell 1978). At this stage writing is a trade practiced by craftsmen, whom others hire to write a letter or document as they might hire a stone-mason to build a house, or a shipwright to build a boat. Such was the state of affairs in West African kingdoms, such as Mali, from the Middle Ages into the twentieth century (Wilks 1968; Goody 1968b). At such a craft-literacy stage, there is no need for an individual to know reading and writing any more than any other trade. Only around Plato's time in ancient Greece, more than three centuries after the introduction of the Greek alphabet, was this stage transcended when writing was finally diffused through the Greek population and interiorized enough to affect thought processes generally (Havelock 1963).

commonly in East Asia, brushes were wetted and dabbed on dry ink bovine horns (inkhorns) or in other acid resistant containers, or inks were mixed in various ways and readied for use into hollow instruments for incising surfaces and/or spreading inks or paints. Fluid to be slit and sharpened over and over again with what we still call a ing tools the scribes had various kinds of styli, goose quills which had stationery stores selling pads of paper. There was no paper. As inscrib wooden and stone surfaces of various sorts. There were no corner over again for re-use), wooden rods (Clanchy 1979, p. 95) and other belt (these wax tablets were used for notes, the wax being smoothed layered onto wooden tablets often hinged to form a diptych worn on a high-technology standards), dried leaves or other vegetation, wax bark of trees, papyrus (better than most surfaces but still rough by reprocessed by scraping off an earlier text (palimpsests). Or he had the hair, often smoothed with pumice and whitened with chalk, frequently clay bricks, animal skins (parchment, vellum) scraped free of fat and recalcitrant technological equipment. For writing surfaces, he had wet paper and relatively durable ball-point pens, the early writer had more technology of writing'). Instead of evenly surfaced machine-made continuance of scribal culture (see Clanchy 1979, pp. 88-115, on 'The blocks, as in watercolor painting. pen knife', brushes (particularly in East Asia), or various other The physical properties of early writing materials encouraged the

Special mechanical skills were required for working with such writing materials, and not all 'writers' had such skills suitably developed for protracted composition. Paper made writing physically easier. But paper, manufactured in China probably by the second century BC and diffused by Arabs to the Middle East by the eighth century of the Christian era, was first manufactured in Europe only in the twelfth century.

thought processes different contours from those of orally sustained thought. More will be said (that is, written) here later about the effects of literacy on text, puts his or her words together on paper. This gives thought position, in which the author composes a text which is precisely a sound effects of the words. High literacy fosters truly written comdeclaiming it aloud, though they might be exquisitely aware of the Few if any novelists today write a novel by imagining themselves down a poem by imagining himself declaiming it to an audience. answers the objections in order. Similarly, an early poet would write Thomas will take, then Thomas states his position, and finally organizes his Summa theologiae in quasi-oral format: each section or composed in writing, he felt he was dictating to himself (Clanchy 'question' begins with a recitation of objections against the position 1979, p. 218). St Thomas Aquinas, who wrote his own manuscripts, imagine. The eleventh-century Eadmer of St Albans says that, when he be done in a psychological setting so oral that we find it hard to eleventh-century England, and, when it occurred, even this late, could composition at different times in different cultures. It was still rare in antiquity, but it became widespread for literary and other prolonged briefer compositions, was, of course, practiced to some extent from in writing, working out one's thought pen-in-hand, particularly in says, 'the whole body labors' (Clanchy 1979, p. 90). Through the Middle Ages in Europe authors often employed scribes. Composition In the physical act of writing, the medieval Englishman Orderic Vitalis aloud encourage dictation, but so did the state of writing technology. Longstanding oral mental habits of thinking through one's thoughts

## FROM MEMORY TO WRITTEN RECORDS

Long after a culture has begun to use writing, it may still not give writing high ratings. A present-day literate usually assumes that written records have more force than spoken words as evidence of a long-past state of affairs, especially in court. Earlier cultures that knew literacy but had not so fully interiorized it, have often assumed quite the opposite. The amount of credence accorded to written records undoubtedly varied from culture to culture, but Clanchy's careful case history of the use of literacy for practical administrative purposes in eleventh- and twelfth-century England (1979) gives an informative sample of how much orality could linger in the presence of writing, even in an administrative milieu.

In the period he studies, Clanchy finds that 'documents did not immediately inspire trust' (Clanchy 1979, p. 230). People had to be persuaded that writing improved the old oral methods sufficiently to warrant all the expense and troublesome techniques it involved. Before the use of documents, collective oral testimony was commonly used to establish, for example, the age of feudal heirs. To settle a dispute in 1127 as to whether the customs dues at the port of Sandwich went to St Augustine's Abbey at Canterbury or to Christ Church, a jury was chosen consisting of twelve men from Dover and twelve from Sandwich, 'matture, wise seniors of many years, having good testimony'. Each juror then swore that, as 'I have received from my ancestors, and I have seen and heard from my youth', the tolls belong to Christ Church (Clanchy 1979, pp. 232–3). They were publicly remembering what others before them had remembered.

Witnesses were prima facit more credible than texts because they could be challenged and made to defend their statements, whereas texts could not (this, it will be recalled, was exactly one of Plato's objections to writing). Notarial methods of authenticating documents undertake to build authenticating mechanisms into written texts, but notarial methods developed late in literate cultures, and much later in England than in Italy (Clanchy 1979, pp. 235–6). Written documents themselves were often authenticated not in writing but by symbolic objects (such as a knife, attached to the document by a parchment thong – Clanchy 1979, p. 24). Indeed symbolic objects alone could

attests to an earlier state of mind familiar with the witness value of because of certain inconsistencies, but notes also that its persistence points out (1979, pp. 21–2) that the story is somewhat questionable the sword and that he would defend his lands with the sword. Clanchy his ancestors had come with William the Conqueror to take England by exhibited not a charter but 'an ancient and rusty sword', protesting that procedures under Edward I (reigned 1272–1306), the Earle Warrenne oral state of mind still persisted: before the judges in quo warranto documentation, the story of the Earle Warrenne shows how the old Domesday Book (1085–6) and the accompanying increase in written offering his sword on an altar (Clanchy 1979, p. 25). Even after the champs conveyed his estate of Hetherslaw to the monks at Durham by serve as instruments transferring property. In  $\it c.~1130$ , Thomas de Mus-

or watches or wall or desk calendars. clocks, and watches. In twelfth-century England there were no clocks abstract computed time enforced by millions of printed calendars, technology cultures today, everyone lives each day in a frame of sumptuous to date a secular document as popes dated theirs? In high Popes dated documents this way, from Christ's birth, but was it prethe creation of the world? To the Crucifixion? To the birth of Christ? reference. What point? Was he to locate this document by reference to time' (1979, p. 238), which demanded that he choose a point of Clanchy suggests that the most profound reason was probably that dating required the scribe to express an opinion about his place in dated (1979, pp. 231, 236–41), probably for a variety of reasons. Early charters conveying land in England were originally not even

a culture with no newspapers or other currently dated material to knowing the current calendar year? The abstract calendar number impinge on consciousness, what would be the point for most people in ing what point to compute from attested the trivialities of the issue. In any other point in the past. Why should they be? Indecision concernthe number of the current calendar year – from the birth of Christ or even Renaissance western Europe would ordinarily have been aware of time of any sort. It appears unlikely that most persons in medieval or themselves situated every moment of their lives in abstract computed Before writing was deeply interiorized by print, people did not feel

> never even tried to discover in what calendar year they had been born would relate to nothing in real life. Most persons did not know and Moreover, charters were undoubtedly assimilated somewhat to sym-

authentic, and the rest uncertainly one or the other. of Edward the Confessor, 44 are certainly forged, only 64 certainly practice' but 'experts entrenched at the centre of literary and intelpoints out, were not 'occasional deviants on the peripheries of legal lectual culture in the twelfth century.' Of the 164 now extant charters like (Clanchy 1979, p. 249, citing P. H. Sawyer). 'Forgers', Clanchy look like what a court (however erroneously) felt a charter should look looks. And indeed, charters were quite regularly forged to make them bolic gifts, such as knives or swords. These were identifiable by their

lists or charts or figures. ence, which itself is not an itemized terrain either. Orality knows no ancestors, a resonant source for renewing awareness of present exist able and disputed 'facts' or bits of information. It is the domain of the cultures the past is not felt as an itemized terrain, peppered with verifiby high literacy need to remind themselves that in functionally oral automatically always up to date and thus youthful - a fact which, oblivion. Customary law, trimmed of material no longer of use, was paradoxically, makes customary law seem inevitable and thus very old past without any sort of present relevance commonly dropped into (cf. Clanchy 1979, p. 233). Persons whose world view has been formed Watt 1968, pp. 31–4), in an oral economy of thought, matters from the been seen in instances from modern Nigeria and Ghana (Goody and truth was ... flexible and up to date' (Clanchy 1979, p. 233). As has and juridical procedures that Clanchy reports were minimal because the fuller past was mostly inaccessible to consciousness. 'Remembered The verifiable errors resulting from the still radically oral economic

ships and captains in the Iliad (ii. 461-879) — not an objective tally but situate their equivalent of lists in narrative, as in the catalogue of the around 3500 BC, is account-keeping. Primary oral cultures commonly we know, that in the cuneiform script of the Sumerians beginning makes such apparatus possible. Indeed, writing was in a sense invented largely to make something like lists: by far most of the earliest writing cance of tables and lists, of which the calendar is one example. Writing Goody (1977, pp. 52-111) has examined in detail the poetic signifi

police line-up, but are doing something – namely, begetting). than simply to juxtapose (the persons are not immobilized as in a begetter and begotten), and partly from the oral drive to narrate rather the oral drive to redundancy (each person is mentioned twice, as recall and which a mere sequence of names would lack), partly from esis 4:18). This sort of aggregation derives partly from the oral drive to sequence of 'begats', of statements of what someone did: 'Irad begat (recurrence of subject-predicate-object produces a swing which aids use formulas, partly from the oral mnemonic drive to exploit balance Mehajael, Mehajael begat Methusael, Methusael begat Lamech' (Geneffect commonly narrative. Instead of a recitation of names, we find a more verses. Even genealogies out of such orally framed tradition are in out from Hazeroth, they camped at Rithmah . . . ', and so on for many Setting out from Kibroth-hattaavah, they camped at Hazeroth. Setting another) is put into a formulary action narrative (Numbers 33:16 ff) equivalent of geography (establishing the relationship of one place to which set down in writing thought forms still basically oral, the an operational display in a story about a war. In the text of the Torah 'Setting out from the desert of Sinai, they camped at Kibroth-hattaavah

that myths provide is essentially not 'coherent' in a tabular way. world in which the myths have their own existence. The satisfaction earth, kinds of winds, and so on), they actually deform the mental Goody calls 'backward scanning' (1977, pp. 49-50). Goody shows in sung. lexts are thing-like, immobilized in visual space, subject to what even genealogies are not 'lists' of data but rather 'memory of songs face lists of various items found in oral myths (clans, regions of the detail how, when anthropologists display on a written or printed surare heard. In a primary oral culture or a culture with heavy oral residue, because they are not presented visually but rather are utterances which sequences are always occurrences in time, impossible to 'examine', thing-like, but as reconstitutions of events in time. Orally presented from an orally constituted sensibility and tradition. They are not felt as These biblical passages obviously are written records, but they come

economy, its own laws of motion and structure. Texts in various scripts presentation of verbalized material in space has its own particular reflectively aware of the distortion they inevitably introduce. Visual Lists of the sort Goody discusses are of course useful if we are

> oral mnemonic and literate mnemonics: generally the sequence of the alphabet, the ruthlessly efficient reducer of sound to space, is pressed of operating with 'headings' or verbal linearity. Across the world the visual retrieval of materials, as in indexes The alphabet as a simple sequence of letters is a major bridge between the first word of successive lines following the order of the alphabet items are marked a, b, c, and so on to indicate their sequences, and even world of order from anything in the oral sensibility, which has no way to-right movement on a horizontal line. All this is quite a different right-to-left movement, to boustrophedon movement ('ox-plowing or farther on. The significance of the vertical and the horizontal in texts assimilate utterance to the human body. They introduce a feeling for or top to bottom, or all these ways at once as in boustrophedon writaround the world are read variously from right to left, or left to right, letters of the alphabet is memorized orally and then used for largely poems in the early days of literacy are composed with the first letter of into direct service for setting up the new space-defined sequences: line), to stoichedon style (vertical lines), and finally to definitive leftline going left, the letters inverted according to the direction of the pattern, one line going right, then a turn around a corner into the next hemisphere dominance governed the drift in early Greek writing from deserves serious study. Kerckhove (1981) suggests that growth in left-Latin caput, meaning head (as of the human body). Pages have not only ing, but never anywhere, so far as is known, from bottom to top. Texts 'heads' but also 'feet', for footnotes. References are given to what is above' and 'below' in a text when what is meant is several pages back headings' in accumulations of knowledge: 'chapter' derives from the

our high-technology cultures is a result not simply of writing, but of which implements the use of fixed diagrammatic word-charts and in any writing culture other informational uses of neutral space far beyond anything feasible the deep interiorization of print (Ong 1958b, pp. 307–18, and possim) The extensive use of lists and particularly of charts so commonplace in the oral noetic processes which such charts are supposed to represent. represent a frame of thought even farther removed than lists are from rank but simultaneously in horizontal and various cross-cross orders, Charts, which range elements of thought not simply in one line of

## SOME DYNAMICS OF TEXTUALITY

which is more than verbal. They never occur alone, in a context simply words. Spoken words are always modifications of a total situation time in a real setting which includes always much more than mere son to another real, living person or real, living persons, at a specific existential present. Spoken utterance is addressed by a real, living percome into being. The word in its natural, oral habitat is a part of a real, words are isolated from the fuller context in which spoken words the sounds or, more precisely, the phonemes they encode, written less unless they can be related — externally or in the imagination — to in spoken discourse. Although they refer to sounds and are meaning-The condition of words in a text is quite different from their condition

word that I am 'out' for hours and days - so that no one, including persons who will presumably read the book, can interrupt my solitude. isolated from everyone. While writing the present book, I have left hope will be read by hundreds of thousands of people, so I must be alone. Writing is a solipsistic operation. I am writing a book which I 'writing' something, the one producing the written utterance is also Yet words are alone in a text. Moreover, in composing a text, in

another in a whisper. them. A given passage might be delivered by one actor in a shout, by hours determining how actually to utter the words in the text before extratextual clues for intonations, but not complete ones. Actors spend tradition, adopted and adapted by skilled critics, can also supply some for example, generally calls for the voice to be raised a bit. Literate is impossible to speak a word orally without any intonation. In a text punctuation can signal tone minimally: a question mark or a comma, tone of voice – lively, excited, quiet, incensed, resigned, or whatever. It ities. In oral speech, a word must have one or another intonation or In a text even the words that are there lack their full phonetic qual-

ence. 'The writer's audience is always a fiction' 53–81). The writer must set up a role in which absent and often much more agonizing an activity than oral presentation to a real audiwriter. Lack of verifiable context is what makes writing normally so Extratextual context is missing not only for readers but also for the (Ong 1977, pp

> utterance comes only from the living. Most books extant today were written by persons now dead. Spoken message, it does not matter whether the author is dead or alive. when I wrote it. Indeed, I may very well be dead. For a text to convey its reads my letter, I may be in an entirely different frame of mind from conform. The reader must also fictionalize the writer. When my friend I have to fictionalize a mood for him, to which he is expected to unknown readers can cast themselves. Even in writing to a close friend

diaries. The diarist can no longer live with his or her fiction. writers with anxieties and often enough lead to discontinuation of others may imagine me? Questions such as this can and do fill diary from now? As I hope I will be? For myself as I imagine myself or hope which self am I writing? Myself today? As I think I will be ten years are a product of consciousness as shaped by print culture. And for late literary form, in effect unknown until the seventeenth century without writing or indeed without print. The personal diary is a very talking to myself. But I never really talk this way to myself. Nor could I (Boerner 1969). The kind of verbalized solipsistic reveries it implies imitation talking, and in a diary I therefore am pretending that I am tionalizing of the utterer and the addressee. Writing is always a kind of addressee. Indeed, the diary demands, in a way, the maximum fic-Even in a personal diary addressed to myself I must fictionalize the

intone, 'dear reader', over and over again to remind themselves that le noir, or in Adam Bede? Nineteenth-century novelists self-consciously company. But who is talking to whom in Pride and Prejudice or in Le Rouge et a 'frame story', so that the reader can pretend to be one of the listening tional groups of men and women telling stories to one another, that is, disputation. Boccaccio and Chaucer will provide the reader with ficin objection-and-response form, so that the reader can imagine an oral Middle Ages, writing will present philosophical and theological texts be imagined as told to a live audience on successive days. Later, in the conspicuous help for situating himself imaginatively. It presents which the reader can imagine himself overhearing. Or episodes are to philosophical material in dialogues, such as those of Plato's Socrates, handling of character and plot. Early writing provides the reader with ary history, of which the topside is the history of genres and the The ways in which readers are fictionalized is the underside of liter-

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of writing matured very slowly in narrative. reader are having difficulty situating themselves. The psychodynamics they are not telling a story but writing one in which both author and

pp. 272-302). tradition endures, the heavier the ironic growth becomes (Ong 1971 is indeed the seedbed of irony, and the longer the writing (and print) There is no mimesis here in Aristotle's sense, except ironically. Writing virtually impossible to multiply it accurately in handwritten copies. print that has gone before it. Finnegans Wake was composed in writing, any imaginable real-life setting, but only the imaginative setting of but for print: with its idiosyncratic spelling and usages, it would be Finnegans Wake, which is imaginable only because of the writing and the sense that it reads well aloud, the voice and its hearer do not fit into of English cannot or will not make themselves into the special kind of to fictionalize themselves à la Joyce. Although Joyce's text is very oral in reader Joyce demands. Some take courses in universities to learn how Finneguns Wake? Only a reader. But of a special fictional sort. Most readers And what is the reader supposed to make himself out to be in

### MAGNAVOCABULARIES DISTANCE, PRECISION, GRAPHOLECTS AND

social context. Orally managed language and thought are not noted for analytic precision. proverbs. Yet wisdom has to do with a total and relatively infrangible lengthy, as in formal narrative, or brief and apophthegmatic, as in in their magniloquence and communal wisdom, whether they are context of much oral utterance. Oral performances can be impressive in verbalization by removing it from the rich but chaotic existential The distancing which writing effects develops a new kind of precision

ture, without facial expression, without intonation, without a real words are called on to do more. To make yourself clear without geshearer, you have to foresee circumspectly all possible meanings a ingful segments. But written words sharpen analysis, for the individual blooming, buzzing confusion', into more or less separate parts, meanbreak down the dense continuum of experience, William James's 'big, Of course, all language and thought are to some degree analytic: they

> circumspection makes writing the agonizing work it commonly is. by itself, with no existential context. The need for this exquisite and you have to make your language work so as to come clear all statement may have for any possible reader in any possible situation.

copia advocated in Europe by rhetoricians from classical antiquity culture, the flow of words, the corresponding flood of thought, the altogether. In writing, corrections can be tremendously productive, for with denial and patchwork. The bricolage or patchwork that Lévi-Strauss 49-50), to choose between words with a reflective selectivity that how can the reader know they have even been made? speaker unconvincing. So you keep them to a minimum or avoid them tions in oral performance tend to be counterproductive, to render the tions do not remove an infelicity or an error, they merely supplement it for this in an oral performance, no way to erase a spoken word: correcthe surface, can be eliminated, erased, changed. There is no equivalent them over. With writing, words once 'uttered', outered, put down on through the Renaissance, tends to manage discrepancies by glossing invests thought and words with new discriminatory powers. In an oral possible in writing to eliminate inconsistencies (Goody 1977, pp. patterns can be seen here to be due to the oral noetic situation. Correc-(1966, 1970) finds characteristic of 'primitive' or 'savage' thought them over - the etymology here is telling, glassa, tongue, by 'tonguing What Goody (1977, p. 128) calls 'backward scanning' makes it

analytic clarification of issues which Socrates and Plato had inherited in more 'totalized', non-analytic, narratized, oral form. aged text couched in dialogue form, they move dialectically toward the the dialogues are in fact written texts. Through a chirographically mandoes. Although Plato's thought is couched in dialogue form, its exquisanalytic exactitude is interiorized, it can feed back into speech, and ite precision is due to the effects of writing on the noetic processes, for Of course, once the chirographically initiated feel for precision and

in Cicero's orations is the work of a literate mind, although we know Similarly, the deadly targeting on issues and on adversaries' weaknesses concept of justice is to be found in any known purely oral cultures brought to a head. Nothing of Plato's analytic targeting on an abstract (1978a), Havelock has treated the movement which Plato's work In The Greek Concept of Justice: From Its Shadow in Homer to Its Substance in Plato

by reading and commenting on texts, orally and in writing versities and in later scholastic tradition into the present century (Ong pp. 56-7). The exquisitely analytic oral disputations in medieval unibut wrote down afterwards the texts that we now have (Ong 1967b 1981, pp. 137–8) were the work of minds honed by writing texts and that Cicero did not compose his orations in script before he gave them

Ovid and a framework of external observances, lacking urgent personal It became only a genteel, archaic literary resource for writers such as itself in the recesses of the psyche which writing had opened for them scientific knowledge. But they developed no sacred texts comparable to the Vedas or the Bible or the Koran, and their religion failed to establish ing and used it, particularly the Greeks, to elaborate philosophical and All these have sacred texts. The ancient Greeks and Romans knew writreligious traditions such as Buddhism, Judaism, Christianity, and Islam. ive world is set. Writing makes possible the great introspective distinct from itself but also to the interior self against whom the objectche as never before not only to the external objective world quite makes possible increasingly articulate introspectivity, opening the psy-By separating the knower from the known (Havelock 1963), writing

a formula-like quality and strings thoughts together not in careful senger boys with no grammar school education. Their expression has world: the group whom Bernstein found using this code were mesexpression generally, operates contextually, close to the human lifeevidently largely oral in origin and use and, like oral thought and linguistic code is absolutely needed. The restricted linguistic code is however, the restricted linguistic code will not do; an elaborated and hearer. For dealing with the unfamiliar expressively and precisely, elaborated code in contexts which are familiar and shared by speaker restricted linguistic code can be at least as expressive and precise as the between Black American English and standard American English. The code' or 'private language' of the middle- and upper-class dialects. Walt Wolfram (1972) had earlier noted distinctions like Bernstein's the lower-class English dialects in Britain and the 'elaborated linguistic 8) distinguishes the 'restricted linguistic code' or 'public language' of the same language. Basil Bernstein (1974, pp. 134–5, 176, 181, 197– Writing develops codes in a language different from oral codes in

> ably the formulaic and aggregative mode of oral culture. The elaborated concentrates meaning in language itself. how orality relegates meaning largely to context whereas writing education in reading and writing in Britain (1974, p. 83). Bernstein's were from the six major public schools that provided the most intensive full elaboration, of print. The group Bernstein found using this code code is one which is formed with the necessary aid of writing, and, for subordination but 'like beads on a frame' (1974, p. 134) - recognizbased' and 'text-based' codes respectively. Olson (1977) has shown restricted' and 'elaborated' linguistic codes could be relabeled 'oral-

other reasons, and has eventually become a national language. In Enggraphically beyond all others, for economic, political, religious, or cluster of dialects is found, one regional dialectic has developed chirodialectal at all, and has developed also certain syntactical peculiarities isolated from its original dialect base, has discarded certain dialectal out (1970, pp. 773-6), a national written language has had to be those which are not written on a large scale. As Guxman has pointed languages has made them different kinds ofdialects or language from or class dialects, their status as chirographically controlled national Italy to Tuscan. While it is true that these were all at root regional and/ many, to Hochdeutsch (the German of the highlands to the south), in land this happened to the upper-class London English dialect, in Germassively in writing. Often, as in England or Germany or Italy, where a above). But certain languages, or more properly dialects, have invested have never been committed to writing at all, as has been seen (p. 7 has aptly styled a 'grapholect'. This kind of established written language Haugen (1966, pp. 50-71) forms, has developed various layers of vocabulary from sources not Writing and print develop special kinds of dialects. Most languages

of other persons but also with the thought of centuries past, for the writing and print and now on computers so that those competent in of Henry V (Richardson 1980), then by normative theorists, grammarover for centuries, first and most intensively, it seems, by the chancery which is commonly used to refer to this grapholect, has been worked the grapholect today can establish easy contact not only with millions ians, lexicographers, and others. It has been recorded massively in A modern grapholect such as 'English', to use the simple term

along with a small fraction of this number. stand that the editors have on hand a record of some million and a hall words used in print in English. Oral languages and oral dialects can get mean at least three times, and rounding out the figures, we can under-450,000 words it does include. Assuming that 'many times' must in its Preface that it could have included 'many times' more than the used it to share their consciousnesses with one another. Into it has been for an oral tongue. Webster's Third New International Dictionary (1971) states hammered a massive vocabulary of an order of magnitude impossible the other dialects: it explains them as they cannot explain themselves interpreted in the grapholect. In this sense, the grapholect includes al other dialects of English as well as thousands of foreign languages are The grapholect bears the marks of the millions of minds which have

strikingly how it is that writing and print alter states of consciousness. ster's New Collegiate Dictionary. Dictionaries such as these are light-years away from the world of oral cultures. Nothing illustrates more what it would mean to make even a few dozen relatively accurate m any language. It is easy to understand why this is so if you think of handwritten copies of Webster's Third or even of the much smaller Web that undertake generalized comprehensive accounts of the words in use pp. 74-111), but until print is well established there are no dictionaries various sorts from very early in the history of writing (Goody 1977 available largely through dictionaries. There are limited word lists of ness is due to print. For the resources of a modern grapholect are The lexical richness of grapholects begins with writing, but its full-

point that all dialects are equal in the sense that none has a gramma grammar. In the light of this fact, linguists today commonly make the language is structure, and it is impossible to use language without a are not ungrammatical: they are simply using a different grammar, for besides the grapholect vary from the grammar of the grapholect, they ing language in order. But when other dialects of a given language printed encourages attributing to it a special normative power for keepbases of the very concept of order are largely visual (Ong 1967b, pp exclusion of the grammar and usage of other dialects. The sensory interpreted as the grammar and usage of the grapholect itself to the 108, 136-7), and the fact that the grapholect is written or, a brtiori Where grapholects exist, 'correct' grammar and usage are popularly

> 43-50) makes the further point that in a profound sense no other dialect, for example, in English or German or Italian, has anything remotely like the resources of the grapholect. It is bad pedagogy to intrinsically more 'correct' than that of others. But Hirsch (1977, pp. makes no difference whether or not speakers of another dialect learn insist that because there is nothing 'wrong' with other dialects, it the grapholect, which has resources of a totally different order of

## INTERACTIONS: RHETORIC AND THE PLACES

interaction of writing and orality. These are academic rhetoric and Two special major developments in the West derive from and affect the

observed that 'rhetoric is the greatest barrier between us and our ances-Learned Latin. of all ages at least up to the Age of Romanticism (Ong 1971, pp. 1-22, refusing to treat it, despite its overwhelming relevance for the culture tors' (1954, p. 60). Lewis honors the magnitude of the subject by that time had begun as the core of ancient Greek education and culture. effects (Marrou 1956, pp. 194-205), as Socrates' oric either in the number of its practitioners or in its immediate social minor element in the total Greek culture, never competitive with rhet-Plato and Aristotle, for all its subsequent fecundity, was a relatively In ancient Greece, the study of 'philosophy', represented by Socrates, 255-83). The study of rhetoric dominant in all western cultures until In his Volume III of the Oxford History of English Literature, C. S. Lewis unhappy fate

deictic rhetoric). The Greek rhetor is from the same root as the Latin orator and means a public speaker. In the perspectives worked out by persuasion (forensic and deliberative rhetoric) or exposition (episophical tradition the new chirographic structures of thought. Like oral world. Over the centuries, until the Age of Romanticism (when Plato, C. S. Lewis was in effect unwittingly turning his back on the old rhetorical tradition represented the old oral world and the philo-Havelock (1963) it would appear obvious that in a very deep sense the the thrust of rhetoric was diverted, definitively if not totally, from oral Rhetoric was at root the art of public speaking, of oral address, for

performance to writing), explicit or even implicit commitment to the formal study and formal practice of rhetoric is an index of the amount of residual primary orality in a given culture (Co., 107).

Homeric and the pre-Homeric Greeks, like oral peoples generally, practiced public speaking with great skill long before their skills were tific principles which explained and abetted what verbal persuasion consisted in. Such an 'art' is presented in Aristotle's Art of Rhetoric (technē scientifically organized sort. No one could or can simply recite extempore a treatise such as Aristotle's Art of Rhetoric, as someone in an implemented. Lengthy oral productions follow more agglomerative, speech, was, like other 'arts', the product of writing.

reflectively prepared for or accounted for. ence for ages but which, before writing, could never have been so something which had been a distinctively human part of human existdearest to their hearts, effective and often showy oral performance, rhetoric was a marvelous thing It provided a rationale for what was its first discoverers or inventors, the Sophists of fifth-century Greece, Sonnino 1968) are likely to react with, 'What a waste of time!' But for categoria or accusatio concertativa, and so on and on and on – (Lanham 1968; Greek and Latin — antinomasia or pronominatio, paradiastole or distinctio, antiintricate terminology for classifying hundreds of figures of speech in the ages and the amount of time spent studying it, of its vast and 1971), of the universal and obsessive interest in the subject through Enlightenment (e.g. Kennedy 1980; Murphy 1974; Howell 1956, through the Middle Ages, the Renaissance, and on into the Age of the vast literature of the past dealing with rhetoric, from classical antiquity Persons from a high-technology culture who become aware of the

Rhetoric retained much of the old oral feeling for thought and expression as basically agonistic and formulaic. This shows clearly in rhetorical teaching about the 'places' (Ong 1967b, pp. 56–87; 1971, pp. 147–87; Howell 1956, Index). With its agonistic heritage, rhetorical teaching assumed that the aim of more or less all discourse was to prove or disprove a point, against some opposition. Developing a

subject was thought of as a process of 'invention', that is, of finding in the store of arguments that others had always exploited those arguments which were applicable to your case. These arguments were considered to be lodged or 'seated' (Quintilian's term) in the 'places' (topoi in Greek, loci in Latin), and were often called the loci communes or commonplaces when they were thought of as providing arguments common to any and all subject matter.

to the massive art of rhetoric explicate the whole of the complex doctrine, which itself was integral otherwise fixed materials inherited from the past. To say this is not to and the cumulative commonplaces, it is clear, kept alive the old oral worked into one's own speech-making or writing. In this sense the loci feeling for thought and expression essentially made up of formulaic or communes can be styled 'cumulative commonplaces'. Both the analytic such as loyalty, decadence, friendship, or whatever – that could be referred to collections of sayings (in effect, formulas) on various topics the 'analytic commonplaces'. Secondly, loci communes or commonplaces causes, effects, opposites, and all the rest. These headings can be styled ever, one could always find something to say by defining, looking to loyalty, evil, the guilt of an accused criminal, friendship, war, or whatshould say simply to develop a line of thought – on any subject, such as effect, opposities, likenesses, and so on (the assortment varied in as abstract 'headings' in today's parlance, such as definition, cause length from one author to another). Wanting to develop a 'proof' – we different senses. First, it referred to the 'seats' of arguments, considered From at least the time of Quintilian, loci communes was taken in two

Rhetoric of course is essentially antithetical (Durand 1960, pp. 451, 453–9), for the orator speaks in the face of at least implied adversaries. Oratory has deep agonistic roots (Ong 1967b, pp. 192–222; 1981, pp. 119–48). The development of the vast rhetorical tradition was distinctive of the West and was related, whether as cause or effect or both, to the tendency among the Greeks and their cultural epigoni to maximize oppositions, in the mental as in the extramental world: this by contrast with Indians and Chinese, who programmatically minimized them (Lloyd 1966; Oliver 1971).

From Greek antiquity on, the dominance of rhetoric in the academic background produced throughout the literate world an impression,

real if often vague, that oratory was the paradigm of all verbal expression, and kept the agonistic pitch of discourse exceedingly high by present-day standards. Poetry itself was often assimilated to epideictic oratory, and was considered to be concerned basically with praise or blame (as much oral, and even written, poetry is even today).

oratorical voice, which had a great deal to do with the rise of the novel. they themselves normally expressed themselves in a different, far less emanating from the Latin-based, academic, rhetorical tradition, but Women writers were no doubt influenced by works that they had read clergy, lawyers, physicians, diplomats, and other public servants. schools with Latin-based instruction were for those aspiring to be tically oriented, for commerce and domestic affairs, whereas the older line Latin schools but the newer vernacular schools. These were pracnumbers during the seventeenth century, girls entered not the mainall other subjects in Latin. When they began to enter schools in some was not acquired in academic institutions, which taught rhetoric and of girls was often intensive and produced effective managers of housebusinesses (Markham 1675, The English House-Wife), but this education holds, of sometimes fifty to eighty persons, which were often sizable none had any such training. In medieval times and after, the education who became published writers, as many did from the 1600s on, almost notable exception: the literary style of female authors. Of the females was formed by academic rhetoric, in one way or another, with one Into the nineteenth century most literary style throughout the West

## INTERACTIONS: LEARNED LANGUAGES

The second massive development in the West affecting the interaction of writing and orality was Learned Latin. Learned Latin was a direct result of writing. Between about AD 550 and 700 the Latin spoken as a forms of Italian, Spanish, Catalan, French, and the other Romance languages. By AD 700, speakers of these offshoots of Latin could no longer greatgrandparents. Their spoken language had moved too far away from its origins. But schooling, and with it most official discourse of Church or state, continued in Latin. There was really no alternative.

school premises. By prescription of school statutes Latin had become the new Romance vernaculars had developed out of Latin as languages Learned Latin, a language completely controlled by writing, whereas but also, in principle if far from always in fact, everywhere else on the dialectical regions (as the East Midland dialect did in England or Hochthus became a school language only, spoken not only in the classroom limited numbers of boys going to school. Once a mother tongue, Latin deutsch in Germany), the only practical policy was to teach Latin to the reasons became dominant enough to gain adherents even from other fifty miles apart. Until one or another dialect for economic or other ent, mutually unintelligible forms among populations perhaps only such as Magyar and Finnish and Turkish, were moving into western versities, into the swarming, oral vernaculars which often had differphilosophical, medical or theological, taught in schools and uni-Europe. There was no way to translate the works, literary, scientific, Slavic dialects, and even more exotic, non-Indo-European languages them never written to this day. Tribes speaking countless Germanic and Europe was a morass of hundreds of languages and dialects, most of

had always developed, orally. Latin had undergone a sound-sight split. Because of its base in academia, which was totally male — with exceptions so utterly rare as to be quite negligible — Learned Latin had another feature in common with rhetoric besides its classical provenance. For well over a thousand years, it was sex-linked, a language written and spoken only by males, learned outside the home in a tribal setting which was in effect a male puberty rite setting, complete with physical punishment and other kinds of deliberately imposed hardships (Ong 1971, pp. 113—41; 1981, pp. 119—48). It had no direct connection with anyone's unconscious of the sort that mother tongues, learned in infancy, always have.

Learned Latin related to orality and literacy, however, in paradoxical ways. On the one hand, as just noted, it was a chirographically controlled language. Of the millions who spoke it for the next 1400 years, every one was able also to write it. There were no purely oral users. But chirographic control of Learned Latin did not preclude its alliance with orality. Paradoxically, the textuality that kept Latin rooted in classical antiquity thereby kept it rooted also in orality, for the classical ideal of education had been to produce not the effective writer but the rhetor,

the orator, the public speaker. The grammar of Learned Latin came from this old oral world. So did its basic vocabulary, although, like all languages actually in use, it incorporated thousands of new words over the centuries.

soil, for philosophers and scientists through the time of Sir Isaac difficulty, if it had got under way at all. Modern science grew in Latin Newton commonly both wrote and did their abstract thinking in Latin. appears that modern science would have got under way with greater scholasticism and of the new mathematical modern science which world and making possible the exquisitely abstract world of medieval one's mother tongue, thus reducing interference from the human lifefollowed on the scholastic experience. Without Learned Latin, it and thus to establish objectivity. It has been suggested (Ong 1977, pp. knowledge in a medium insulated from the emotion-charged depths of 24-9) that Learned Latin effects even greater objectivity by establishing been seen, serves to separate and distance the knower and the known the unparalleled productivity of such isolation. Writing, as has earlier exemplification of the power of writing for isolating discourse and of ways but always written the same way, Learned Latin was a striking of its users, pronounced across Europe in often mutually unintelligible where language has its deepest psychic roots, a first language to none Devoid of baby-talk, insulated from the earliest life of childhood

Interaction between such a chirographically controlled language as Learned Latin and the various vernaculars (mother tongues) is still far from being completely understood. There is no way simply to 'translate' a language such as Learned Latin into languages like the vernaculars. Translation was transformation. Interaction produced all sorts of special results. Bäuml (1980, p. 264) has called attention, for example, phorical Latin were shifted into less metaphoricized mother tongues.

During this period, other chirographically controlled, sexlinked male languages developed in Europe and Asia where sizable literate populations wanted to share a common intellectual heritage. Pretty much coeval with Learned Latin were Rabbinic Hebrew, Classical Arabic, Sanskrit, and Classical Chinese, with Byzantine Greek a sixth, much less definitively learned language, for vernacular Greek kept close contact with it (Ong 1977, pp. 28–34). These languages were all no

longer in use as mother tongues (that is, in the straightforward sense, not used by mothers in raising children). They were never first languages for any individual, were controlled exclusively by writing, were spoken by males only (with negligible exceptions, though perhaps with more exceptions for Classical Chinese than for the others), and were spoken only by those who could write them and who, indeed, had learned them initially by the use of writing. Such languages are no more, and it is difficult today to sense their earlier power. All languages used for learned discourse today are also mother tongues (or, in the case of Arabic, are more and more assimilating to themselves mother tongues). Nothing shows more convincingly than this disappearance of chirographically controlled language how writing is losing its earlier power monopoly (though not its importance) in today's world.

### TENACIOUSNESS OF ORALITY

As the paradoxical relationships of orality and literacy in rhetoric and Learned Latin suggest, the transition from orality to literacy was slow (Ong 1967b, pp. 53–87; 1971, pp. 23–48). The Middle Ages used texts far more than ancient Greece and Rome, teachers lectured on texts in the universities, and yet never tested knowledge or intellectual prowess by writing, but always by oral dispute – a practice continued in diminishing ways into the nineteenth century and today still surviving vestigially in the defense of the doctoral dissertation in the fewer and fewer places where this is practiced. Though Renaissance humanism invented modern textual scholarship and presided over the development of letterpress printing, it also harked back to antiquity and thereby gave new life to orality. English style in the Tudor period (Ong 1971, pp. 23–47) and even much later carried heavy oral residue in its use of epithets, balance, antithesis, formulary structures, and commonplace materials. And so with western European literary styles generally.

In western classical antiquity, it was taken for granted that a written text of any worth was meant to be and deserved to be read aloud, and the practice of reading texts aloud continued, quite commonly with many variations, through the nineteenth century (Balogh 1926). This practice strongly influenced literary style from antiquity until rather recent times (Balogh 1926; Crosby 1936; Nelson 1976–7; Ahern

developed 'elocution' contests, which tried to repristinate printed texts, using careful artistry to memorize the texts verbatim and recite them so that they would sound like extempore oral productions (Howorator's platform. The famous McGuffey's Readers, published in the United States in some 120 million copies between 1836 and 1920, were prehension which we idealize today, but oral, declamatory reading. The McGuffey's specialized in passages from 'sound-conscious' literature concerned with great heroes ('heavy' oral characters). They provided endless oral pronunciation and breathing drills (Lynn 1973, pp. 16, 20).

oriented (Ong 1967b, pp. 241-55). into academia, which also became more and more commercially cess, as rhetoric and Latin went out, women entered more and more and professional, ecclesiastical, or political public service. In the protion that had generally prepared young men in the past for teaching took over from the traditional orally grounded, heroic, agonistic educanonrhetorical, bookish, commercial and domestic education, gradually three Rs — reading, 'riting, and 'rithmetic — representing an essentially described as fundamentally rhetorical as it could be in past ages. The pervasive subject it had once been: education could no longer be omy. The drift was completed before it was noticed that anything was happening. Once it was completed, rhetoric was no longer the alllowed the drift of consciousness away from an oral to a writing econa program to give this new direction to rhetoric: the 'art' simply folstudy of how to write effectively. But no one ever consciously launched when curricula list rhetoric as a subject, it usually means simply the changes with specious explanations or no explanation at all. Today, able to writing. They were also minimizing the last part, delivery (Howell 1956, pp. 146–72, 270, et passim). By and large, they made these memory and delivery) the fourth part, memory, which was not applicthe traditional five parts of rhetoric (invention, arrangement, style, sixteenth century rhetoric textbooks were commonly omitting from rhetoric were put to use not only in oratory but also in writing. By the chirographic world. From classical antiquity the verbal skills learned in Rhetoric itself gradually but inevitably migrated from the oral to the

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# PRINT, SPACE AND CLOSURE

# HEARING-DOMINANCE YIELDS TO SIGHT-DOMINANCE

Although this book attends chiefly to oral culture and to the changes in thought and expression introduced by writing, it must give some brief attention to print, for print both reinforces and transforms the effects of writing on thought and expression. Since the shift from oral to written speech is essentially a shift from sound to visual space, here the effects of print on the use of visual space can be the central, though not the only, focus of attention. This focus brings out not only the relationship between print and writing, but also the relationship of print to the orality still residual in writing and early print culture. Moreover, while all the effects of print do not reduce to its effects on the use of visual space, many of the other effects do relate to this use in various ways.

In a work of this scope there is no way even to enumerate all the effects of print. Even a cursory glance at Elizabeth Eisenstein's two volumes, The Printing Press as an Agent of Change (1979), makes abundantly evident how diversified and vast the particular effects of print have been. Eisenstein spells out in detail how print made the Italian Renaissance a permanent European Renaissance, how it implemented the Protestant Reformation and reoriented Catholic religious practice, how it affected the development of modern capitalism, implemented

western European exploration of the globe, changed family life and politics, diffused knowledge as never before, made universal literacy a serious objective, made possible the rise of modern sciences, and otherwise altered social and intellectual life. In The Gutenberg Galaxy (1962) and Understanding Media (1964) Marshall McLuhan has called attention to many of the subtler ways print has affected consciousness, as George Steiner has also done in Lunguage and Silence (1967) and as I have undertaken to do elsewhere (Ong 1958b; 1967b; 1971; 1977). These subtler effects of print on consciousness, rather than readily observable social effects, concern us particularly here.

For thousands of years human beings have been printing designs from variously carved surfaces, and since the seventh or eighth century Chinese, Koreans and Japanese have been printing verbal texts, at first from wood blocks engraved in relief (Carter 1955). But the crucial development in the global history of printing was the invention of alphabetic letterpress print in fifteenth-century Europe. Alphabetic writing had broken the word up into spatial equivalents of phonemic units (in principle, though the letters never quite worked out as totally phonemic indicators). But the letters used in writing do not exist before the text in which they occur. With alphabetic letterpress print it is otherwise. Words are made out of units (types) which pre-exist as units before the words which they will constitute. Print suggests that words are things far more than writing ever did.

Like the alphabet, alphabetic letterpress print was a nonce invention (Ong 1967b, and references there cited). The Chinese had had movable type, but no alphabet, only characters, basically pictographic. Before the mid-1400s the Koreans and Uigur Turks had both the alphabet and movable type, but the movable types bore not separate letters but whole words. Alphabet letterpress printing, in which each letter was cast on a separate piece of metal, or type, marked a psychological breakthrough of the first order. It embedded the word itself deeply in the manufacturing process and made it into a kind of commodity. The first assembly line, a technique of manufacture which in a series of set steps produces identical complex objects made up of replaceable parts, was not one which produced stoves or shoes or weaponry but one which produced the printed book. In the late 1700s, the industrial revolution applied to other manufacturing the replaceable-part

techniques which printers had worked with for three hundred years. Despite the assumptions of many semiotic structuralists, it was print, not writing, that effectively reified the word, and, with it, poetic activity (Ong 1958b, pp. 306–18).

understand even figures better by listening than by looking today is examine them by sight. Earlier, residually oral folk could ally, by having them read aloud. Clanchy (1979, pp. 215, 183) ters in our vocabulary: even today, we speak of 'auditing', that is, describes the practice and draws attention to the fact that it still regis-England, checking even written financial accounts was still done aurhearing account books, though what an accountant actually does even when reading to oneself. At least as late as the twelfth century in versity disputations, in the reading of literary and other texts to groups (Crosby 1936; Ahern 1981; Nelson 1976-7), and in reading aloud to recycle knowledge back into the oral world, as in medieval unihearing in ways which strike us today as bizarre. Writing served largely course, written as well as oral. Written material was subsidiary to productions and remained implicitly the basic paradigm for all disthrough the Renaissance, the oration was the most taught of all verbal 5): 'Sight is often deceived, hearing serves as guarantee.' In the West Ambrose of Milan caught the earlier mood in his Commentary on Luke (iv. Manuscript culture in the West remained always marginally oral significant ways, even long after writing was deeply interiorized Hearing rather than sight had dominated the older poetic world ir

Manuscript cultures remained largely oral-aural even in retrieval of material preserved in texts. Manuscripts were not easy to read, by later typographic standards, and what readers found in manuscripts they tended to commit at least somewhat to memory. Relocating material in a manuscript was not always easy. Memorization was encouraged and facilitated also by the fact that in highly oral manuscript cultures, the verbalization one encountered even in written texts often continued the oral mnemonic patterning that made for ready recall. Moreover, readers commonly vocalized, read slowly aloud or sotto voce, even when reading alone, and this also helped fix matter in the memory.

Well after printing was developed, auditory processing continued for some time to dominate the visible, printed text, though it was eventually eroded away by print. Auditory dominance can be seen

the title page shown here the initial 'THE' is by far the most prominent in London by Thomas Berthelet in 1534 (Figure 1 here; see Steinberg the edition of Sir Thomas Elyot's The Boke Named the Gouernour published a word in one line in large type and the latter part in smaller type, as in including the author's name, with hyphens, presenting the first part of 1974, p. 154). Inconsequential words may be set in huge type faces: on Sixteenth-century title pages very commonly divide even major words, to us crazily erratic in the their inattention to visual word units. strikingly in such things as early printed title pages, which often seem



Figure 1

scripts commonly ran words together or kept spaces between them its own visually aesthetic way? It will be recalled that pre-print manulistening to words, what difference did it make if the visible text went simply set in motion by sight. If you felt yourself as reader to be sound. But whereas we feel reading as a visual activity cueing in sounds word and more on its sound than we do. All text involves sight and ing, the sixteenth century was concentrating less on the sight of the the imagination when we read). Evidently, in processing text for meanfor us, the early age of print still felt it as primarily a listening process, words before us as visual units (even though we sound them at least in that need to be explained. Why does the original, presumably more tice has deviated. Our attitudes are the ones that have changed, and thus not our practice, is the original practice from which our present pracbut it plays havoc with our present sense of textuality. Yet this practice word of all. The result is often aesthetically pleasing as a visual design 'natural' procedure seem wrong to us? Because we feel the printed

a line of type can be cast from the properly positioned matrices in the chase, locking the chase firmly onto a press, affixing and process) calls for locking up the type in an absolutely rigid position Printing from 'hot metal' type (that is, from cast type - the older tronic patterns (letters) previously programmed into the computer. Composing on a computer terminal or wordprocesser positions elecmachine to position the separate matrices for individual lines so that compartments). Composing on the linotype consists in using a the upper compartments, small or 'lower case' letters in the lower proper compartments in the case (capitals or 'upper case' letters in are carefully repositioned, redistributed for future use into their sists in positioning by hand preformed letter types, which, after use into position in this space. Control of position is everything in print sight-dominance which had its beginnings with writing but could no 'Composing' type by hand (the original form of typesetting) conthe sound world to a world of visual space, but print locks words more relentlessly than writing ever did. Writing moves words from flourish with the support of writing alone. Print situates words in space dominance in the world of thought and expression with the Eventually, however, print replaced the lingering hearing

clamping down the makeready, and squeezing the forme of type with great pressure onto the paper printing surface in contact with the platen.

Most readers are of course not consciously aware of all this locomotion that has produced the printed text confronting them. Nevertheless, from the appearance of the printed text they pick up a sense of the word-in-space quite different from that conveyed by writing. Printed texts look machine-made, as they are. Chirographic control of space tends to be ornamental, ornate, as in calligraphy. Typographic control typically impresses more by its tidiness and inevitability: the lines perfectly regular, all justified on the right side, everything coming out even visually, and without the aid of the guidelines or ruled borders that often occur in manuscripts. This is an insistent world of cold, nonhuman, facts. 'That's the way it is' – Walter Cronkite's television signature comes from the world of print that underlies the secondary orality of television (Ong 1971, pp. 284–303).

have yet to be assessed fully. The journal Visible Language (formerly called upon thousands of copies. The effects of print on thought and style in producing a more readable text will immediately improve thousands work represent a much smaller investment of time: a few hours spent reader. Print is consumer-oriented, since the individual copies of a abbreviations, which favor the copyist although they inconvenience the individual copyist's time. Medieval manuscripts are turgid with every individual copy of a work represents great expenditure of an from a printed page. Manuscript culture is producer-oriented, since original works today: they are not organized for rapid assimilation prose works from manuscript cultures could pass editorial scrutiny as magnitude virtually unknown in a manuscript culture. Few lengthy print often calls for painstaking revisions by the author of an order of others. Before as well as after scrutiny by such persons, writing for work – publishers, literary agents, publishers' readers, copy editors and Print involves many persons besides the author in the production of a the authorial voice in the text and calls for different styles of writing ing in turn makes for a different relationship between the reader and greater legibility ultimately makes for rapid, silent reading. Such readtexts. The effects of the greater legibility of print are massive. The By and large, printed texts are far easier to read than manuscript

the Journal of Typographic Research) published many articles contributory to such an assessment.

### SPACE AND MEANING

Writing had reconstituted the originally oral, spoken word in visual space. Print embedded the word in space more definitively. This can be seen in such developments as lists, especially alphabetic indexes, in the use of words (instead of iconographic signs) for labels, in the use of printed drawings of all sorts to convey information, and in the use of abstract typographic space to interact geometrically with printed words in a line of development that runs from Ramism to concrete poetry and to Derrida's logomachy with the (printed, typically, not simply written) text.

#### (i) Indexes

oral recall was of itself intellectually improving. (Educators in the West manuscript culture felt that having written series of things readied for gods, next gods' servants), and Egyptian onomastica or name-lists, tive lists, he discusses also event lists, lexical lists (words are listed in in making these lists, with word-dividers to separate items from numalso notes the initially awkward, ad hoc way in which space was utilized we hear an oral recitation of simply a string of nouns – unless they are not free-floating as in lists, but are embedded in sentences: rarely do and also from linguistic context (normally in oral utterance nouns are abstracted from the social situation in which it had been embedded which were often memorized for oral recitation. Still highly oral various orders, often hierarchically by meaning – gods, then kin of the bers, ruled lines, wedged lines, and elongated lines. Besides administrawritten words sound in the inner ear to yield their meanings. Goody being read off a written or printed list). In this sense, lists as such have scripts. He notes (1977, pp. 87-8) that the information in the lists is use of lists in the Ugaritic script of around 1300 BC and in other early 'no oral equivalent' (1977, pp. 86–7) though of course the individua ('fattened kids', 'pastured ewes', etc., with no further specifications) Lists begin with writing. Goody has discussed (1977, pp. 741 1 1) the

tors probably still do.) Writing is here once more at the service of until recently had the same feeling, and across the world most educa-

develops far more sophisticated use of space for visual organization and range names of related items in the same physical, visual space. Print more immediately retrievable through its spatial organization. Lists verbalized material in chirographic cultures so as to make the material Goody's examples show the relatively sophisticated processing of

work concerned with poetry, the god of poetry should get top billing all other entries under a, because Textor considers it fitting that in a Textor's Specimen epithetorum (Paris, 1518), alphabetizes 'Apollo' before 169-72). Here even visual retrieval functions aurally. Ioannes Ravisius pronounced, 'Halyzones' is listed under a (discussed in Ong 1977, pp. since in Italian and Latin as spoken by Italian-speakers the letter h is not sound: for example, in a Latin work published as late as 1506 in Rome, 1967, p. 73). Indexing was long by first letter only – or, rather, by first due not to his own prowess but 'the grace of God working in me' (Daly compiler could marvel at the alphabetical catalogue he had devised as beauty and mystery rather than for their utility. In 1286, a Genoese 1979, p. 144). Indexes seem to have been valued at times for their numbers to another manuscript with a different pagination (Clanchy index made for one manuscript was appended without change of page understood, even in thirteenth-century Europe, when sometimes an indexes occurred, they were rare, often crude, and commonly not ally meant this mark  $\P$ , not a unit of discourse at all. When alphabetic alphabetic indexes. A favorite sign was the 'paragraph', which originof materials in a manuscript text, pictorial signs were often preferred to was more economical, though not thorough-going. For visual location ing was not worth the effort. Auditory recall through memorization script of a given work would normally require a separate index. Indexsame dictation, almost never correspond page for page, each manu-9, 85). Since two manuscripts of a given work, even if copied from the embedding in typographic space. Manuscripts can be alphabetically indexed. They rarely are (Daly 1967, pp. 81–90; Clanchy 1979, pp. 28– strikingly the disengagement of words from discourse and their Indexes are a prime development here. Alphabetic indexes show

> processing words as things. given low priority. The personalized, oral world still could overrule Clearly, even in a printed alphabetic index, visual retrieval was

organized. and visibly localized. A new noetic world was shaping up, spatially the printed book, these vague psychic 'places' became quite physically thought of as, vaguely, 'places' in the mind where ideas were stored. In responding pages in the index locorum. The loci had originally been one or another locus was exploited, listing there the locus and the corthe indexer of 400 years ago simply noted on what pages in the text so on. Coming with this orally based, formulary equipment to the text, found, headings such as cause, effect, related things, unlike things, and we would style them - under which various 'arguments' could be visualist cultures. 'Index' is a shortened form of the original index locoplaces'. Rhetoric had provided the various loci or 'places' — headings, rum or index locorum communium, 'index of places' or 'index of common-The alphabetic index is actually a crossroads between auditory and

by announcing 'The Iliad' Homer would hardly have begun a recitation of episodes from the Iliad on), label-like titles as such are not very operational in oral cultures: recitations (the stories of the Wars of Troy, the Mwindo stories, and so cultures of course have ways of referring to stories or other traditional wrote about. . . .) The oral heritage is at work here, for, although oral quidam de....' (Here you have, dear reader, a book which so-and-so person to another: 'Hic habes, carissime lector, librum quem scripset of a title page the text proper might be introduced by an observation to kind of thing or object. Often in medieval western manuscripts, instead evinces a cértain residual orality). With print, as has been seen, come a thing. Manuscript culture had preserved a feeling for a book as a kind the reader, just as a conversation might start with a remark of one title pages. Title pages are labels. They attest a feeling for the book as a Lord's Prayer as the 'Our Father' is referring to it by its incipit and meaning it begins'), or the first words of its text (referring to the manuscript culture is normally catalogued by its 'incipit' (a Latin verb an object. Lacking title pages and often titles, a book from pre-print, of utterance, an occurrence in the course of conversation, rather than as In this new world, the book was less like an utterance, and more like

### (ii) Books, contents and labels

with allegorical figures and other nonverbal designs. emblematic engraved title pages that persisted through the 1660s, filled time the iconographic drive was still strong, as is seen in the highly printed book, being a lettered object, naturally took a lettered label, the work did not merely say the same thing, they were duplicates of one title page (new with print – Steinberg 1974, pp. 145–8). At the same another as objects. The situation invited the use of labels, and the they presented the same text. Now, with print, two copies of a given another, an identical object, as manuscript books were not, even when other, rather than, as earlier, a recorded utterance (Ong 1958b, p. 313). kind of object which 'contained' information, scientific, fictional or Once print has been fairly well interiorized, a book was sensed as a Each individual book in a printed edition was physically the same as

#### (iii) Meaningful surface

pre-existing parts. Print was congenial. The verbal text was reproduced from pre-existing parts, and so could prints be. A press could print an manufacture. Manuscripts were produced by handwriting, not from ment'. But manuscript production was not congenial to such provided just what was needed, an 'exactly repeatable visual stateate printing block for white clover would have been quite feasible long before the invention of letterpress printing, and would have solved the problem in a manuscript culture, since print-making had white clover can end up looking like asparagus. Prints might have white clover copied by a succession of artists unfamiliar with real been practiced for centuries for decorative purposes. Cutting an accuran expert in the field the illustrations refer to. Otherwise, a sprig of point of an illustration they are copying unless they are supervised by soon deteriorated in manuscripts because even skilled artists miss the only after the development of movable letterpress type in the middone technical drawings, as Ivins has shown (1953, pp. 14–16, 40–5) designs from various carved surfaces had been known for centuries Ivins (1953, p. 31) has pointed out that, although the art of printing 1400s were prints used systematically to convey information. Hand-

'exactly repeatable visual statement' as easily as a forme set up from

accurate picture of anything. earlier cultures where relatively few persons had ever seen a physically Eisenstein (1979, p. 64) suggests how difficult it is today to imagine long-standing rhetorical tradition were not of a visual-vocal sort tecture is notoriously vague. The kinds of exactitude aimed at by the 65-6; cf. Havelock 1963, pp. 61-96). Vitruvius' treatise on archivisual appearance of objects or scenes or persons (Fritschi 1981, pp. Romanticism, that is, the age of the Industrial Revolution. Oral and residually oral verbalization directs its attention to action, not to the that appear after print and, indeed, that mature chiefly with the Age of descriptions of complex objects at all approximating the descriptions and medieval writers are simply unable to produce exactly worded The resulting hypervisualized noetic world was brand new. Ancient prints and technical verbalization reinforced and improved each other. engravings) implemented such exactly worded descriptions. Technical prints (first woodcuts, and later even more exactly detailed metal objects and processes. The availability of carefully made, technical modern science is the conjuncture of exact observation and exact verexample, hunters and craftsmen of many sorts. What is distinctive of ence. For ages, it has always been essential for survival among, for modern science. Exact observation does not begin with modern scibalization: exactly worded descriptions of carefully observed complex One consequence of the new exactly repeatable visual statement was

physics this kind of poetry grows out of the world of print. in Inversnaid. As much as Darwin's evolutionary biology or Michelson's ena found, for example, in Hopkins's description of a plunging brook ceeds with the close, meticulous, clinical attention to natural phenom-Manley Hopkins's notebooks (1937) and no pre-Romantic poetry proaffected not just science but literature as well. No pre-Romantic prose provides the circumstantial description of landscape found in Gerard and correspondingly exact verbal description of physical reality The new noetic world opened by exactly repeatable visual statement

#### (iv) Typographic space

Because visual surface had become charged with imposed meaning and because print controlled not only what words were put down to form a text but also the exact situation of the words on the page and their spatial relationship to one another, the space itself on a printed sheet—white space as it is called—took on high significance that leads directly into the modern and post-modern world. Manuscript lists and charts, discussed by Goody (1977, pp. 74–111), can situate words in specific spatial relationships to one another, but if the spatial relationships are extremely complicated, the complications will not survive the vagaries of successive copiers. Print can reproduce with complete accuracy and in any quantity indefinitely complex lists and charts. Early in the age of print, extremely complex charts appear in the teaching of academic subjects (Ong 1958b, pp. 80, 81, 202, et passim).

final word 'grasshopper' — all this to suggest the erratic and optically them unevenly about the page until at last letters come together in the about the grasshopper disintegrates the words of its text and scatters the unit of verse. E. E. Cummings's untitled Poem No. 276 (1968) the poem so that the page, with its typographic spaces, not the line, is declared objective is to 'avoid narrative' and 'space out' the reading of reproduced and discussed in Bruns 1974, pp. 115-38). Mallarmé's free-fall suggesting the chance that rules a throw of dice (the poem is lines scattered calculatingly across the pages in a kind of typographical 'Un Coup de dés' to be set in varying fonts and sizes of type with the and with greater sophistication, Stéphane Mallarmé designs his poem the reader to fill in. Space here is the equivalent of silence. Much later, blank pages, to indicate his unwillingness to treat a subject and to invite uses typographic space with calculated whimsy, including in his book only marginally viable. In Tristram Shandy (1760-7), Laurence Sterne altar respectively. In manuscripts, this kind of visual structure would be of the complicated ways in which typographic space is present to the lengths, give the poems a visualized shape suggesting wings and an in his 'Easter Wings' and 'The Altar', where the lines, of varying psyche. George Herbert exploits typographic space to provide meaning imagination, but also on the literary imagination, which shows some Typographic space works not only on the scientific and philosophic

dizzying flight of a grasshopper until he finally reassembles himself straightforwardly on the blade of grass before us. White space is so integral to Cummings's poem that it is utterly impossible to read the poem aloud. The sounds cued in by the letters have to be present in the imagination but their presence is not simply auditory: it interacts with the visually and kinesthetically perceived space around them.

Concrete poetry (Solt 1970) climaxes in a certain way the interaction of sounded words and typographic space. It presents exquisitely complicated or exquisitely uncomplicated visual displays of letters and/or words some of which can be viewed but not read aloud at all, but none of which can be appropriated without some awareness of verbal sound. Even when concrete poetry cannot be read at all, it is still not merely a picture. Concrete poetry is a minor genre, often merely gimmicky—a fact which makes it all the more necessary to explain the drive to produce it.

Hartman (1981, p. 35) has suggested a connection between concrete poetry and Jacques Derrida's on-going logomachy with the text. The connection is certainly real and deserves more attention. Concrete poetry plays with the dialectic of the word locked into space as opposed to the sounded, oral word which can never be locked into space (every text is pretext), that is, it plays with the absolute limitations of textuality which paradoxically reveal the built-in limitations of the spoken word, too. This is Derrida's terrain, though he moves over it at his own calculated gait. Concrete poetry is not the product of writing but of typography, as has been seen. Deconstruction is tied to typography rather than, as its advocates seem often to assume, merely to writing.

### MORE DIFFUSE EFFECTS

One can list without end additional effects, more or less direct, which print had on the poetic economy or the 'mentality' of the West. Print eventually removed the ancient art of (orally based) rhetoric from the center of academic education. It encouraged and made possible on a large scale the quantification of knowledge, both through the use of mathematical analysis and through the use of diagrams and charts. Print eventually reduced the appeal of iconography in the management

of knowledge, despite the fact that the early ages of print put iconographic illustrations into circulation as they had never been before. Iconographic figures are akin to the 'heavy' or type characters of oral discourse and they are associated with rhetoric and with the arts of memory that oral management of knowledge needs (Yates 1966).

Print produced exhaustive dictionaries and fostered the desire to legislate for 'correctness' in language. This desire in great part grew out of a sense of language based on the study of Learned Latin. Learned tongues textualize the idea of language, making it seem at root something written. Print reinforces the sense of language as essentially textual. The printed text, not the written text, is the text in its fullest, paradigmatic form.

Print established the climate in which dictionaries grew. From their origins in the eighteenth century until the past few decades, dictionaries of English have commonly taken as their norm for language only the usage of writers producing text for print (and not quite all of them). The usage of all others, if it deviates from this typographic usage, has been regarded as 'corrupt'. Webster's Third New International Dictionary (1961) was the first major lexicographical work to break cleanly with this old typographical convention and to cite as sources for usage persons not writing for print – and of course many persons, formed in the old ideology, immediately wrote off this impressive lexicographical achievement (Dykema 1963) as a betrayal of the 'true' or 'pure' language.

Print was also a major factor in the development of the sense of personal privacy that marks modern society. It produced books smaller and more portable than those common in a manuscript culture, setting the stage psychologically for solo reading in a quiet corner, and eventually for completely silent reading. In manuscript culture and hence in early print culture, reading had tended to be a social activity, one person reading to others in a group. As Steiner (1967, p. 383) has suggested, private reading demands a home spacious enough to provide for individual isolation and quiet. (Teachers of children from poverty areas today are acutely aware that often the major reason for poor performance is that there is nowhere in a crowded house where a boy or girl can study effectively.)

Print created a new sense of the private ownership of words. Persons

in Ulysses and Finnegans Wake undertook to echo everybody on purpose. electronic age, Joyce faced up to the anxieties of influence squarely and not quite private property. They were still shared property to a degree. individualism had been served well by print. Of course, words were claimed freeholdings. The drift in human consciousness toward greater commodity. The old communal oral world had split up into privately shaping up over western Europe. Typography had made the word into a rights, and by the eighteenth century modern copyright laws were ated in London to oversee authors' and printers' or printer-publishers' often secured forbidding the reprinting of a printed book by others Printed books did echo one another, willy-nilly. At the onset of the 1518 from Henry VIII. In 1557 the Stationers' Company was incorporthan the original publisher. Richard Pynson secured such a privilegium in In the very early days of print, however, a royal decree or privilegium was giarist or plagiarism. The oral commonplace tradition was still strong plunderer, oppressor, for someone who appropriates another's writing ancient Latin poet Martial (i. 53.9) uses the word plagiarius, a torturer, draws. With writing, resentment at plagiarism begins to develop. The common share of lore, formulas, and themes on which everyone to a poem, but such a sense is rare and ordinarily enfeebled by the But there is no special Latin word with the exclusive meaning of plain a primary oral culture can entertain some sense of proprietary rights

By removing words from the world of sound where they had first had their origin in active human interchange and relegating them definitively to visual surface, and by otherwise exploiting visual space for the management of knowledge, print encouraged human beings to think of their own interior conscious and unconscious resources as more and more thing-like, impersonal and religiously neutral. Print encouraged the mind to sense that its possessions were held in some sort of inert mental space.

## PRINT AND CLOSURE: INTERTEXTUALITY

Print encourages a sense of closure, a sense that what is found in a text has been finalized, has reached a state of completion. This sense affects literary creations and it affects analytic philosophical or scientific work.

Before print, writing itself encouraged some sense of noetic closure

By isolating thought on a written surface, detached from any interlocutor, making utterance in this sense autonomous and indifferent to attack, writing presents utterance and thought as uninvolved with all else, somehow self-contained, complete. Print in the same way situates utterance and thought on a surface disengaged from everything else, but it also goes farther in suggesting self-containment. Print encloses thought in thousands of copies of a work of exactly the same visual and physical consistency. Verbal correspondence of copies of the same printing can be checked with no resort to sound at all but simply by sight: a Hinman collator superimposed corresponding pages of two copies of a text and signal variations to the viewer with a blinking light.

material the text deals with is similarly complete or self-consistent. the impression, unintentionally and subtly, but very really, that the Print is curiously intolerant of physical incompleteness. It can convey lines of type are normally all justified (i.e. all exactly the same width). filled – certain kinds of printed material are called 'fillers' – just as its print is at times grossly physical. A newspaper's pages are normally all writing for print. The sense of closure or completeness enforced by closed off from the author, less absent, than are the readers of those give-and-take of oral expression. The readers of manuscripts are less with the world outside their own borders. They remained closer to the often got worked into the text in subsequent copies) were in dialogue trast, manuscripts, with their glosses or marginal comments (which changes (erasures, insertions) so readily as do written texts. By conplate is made, and the sheet printed, the text does not accommodate Once a letterpress forme is closed, locked up, or a photolithographic definitive or 'final' form. For print is comfortable only with finality. The printed text is supposed to represent the words of an author in

Print makes for more tightly closed verbal art forms, especially in narrative. Until print, the only linearly plotted lengthy story line was that of the drama, which from antiquity had been controlled by writing. Euripides' tragedies were texts composed in writing and then memorized verbatim to be presented orally. With print, tight plotting is extended to the lengthy narrative, in the novel from Jane Austen's time on, and reaches its peak in the detective story. These forms will be discussed in the next chapter.

In literary theory, print gives rise ultimately to Formalism and the

New Criticism, with their deep conviction that each work of verbal art is closed off in a world of its own, a 'verbal icon'. Significantly, an icon is something seen, not heard. Manuscript culture felt works of verbal art to be more in touch with the oral plenum, and never very effectively distinguished between poetry and rhetoric. More will be said of Formalism and the New Criticism also in the next chapter.

Print ultimately gives rise to the modern issue of intertextuality, which is so central a concern in phenomenological and critical circles today (Hawkes 1977, p. 144). Intertextuality refers to a literary and psychological commonplace: a text cannot be created simply out of lived experience. A novelist writes a novel because he or she is familiar with this kind of textual organization of experience.

anxieties about influence to plague them, and oral cultures had of others' texts. Harold Bloom's work The Anxiety of Influence (1973) really new or fresh at all, that they maybe totally under the influence virtually none. treats this modern writer's anguish. Manuscript cultures had few if any their own works, are concerned that they may be producing nothing agonizingly aware of literary history and of the de facto intertextuality of shock. They were all the more disquieting because modern writers, isolationist aesthetics of a romantic print culture, they came as a kind of off from other works, a unit in itself. Print culture gave birth to the the past few decades doctrines of intertextuality arose to counteract the meaning as independent of outside influence, at least ideally. When in individual work from other works even more, seeing its origins and romantic notions of 'originality' and 'creativity', which set apart an itself has a different mindset. It tends to feel a work as 'closed', set into fresh literary forms impossible without writing. Print culture of originally oral, formulas and themes, even though it worked them up texts out of other texts, borrowing, adapting, sharing the common, the commonplace tradition of the old oral world, it deliberately created Manuscript culture had taken intertextuality for granted. Still tied to

Print creates a sense of closure not only in literary works but also in analytic philosophical and scientific works. With print came the catechism and the 'textbook', less discursive and less disputatious than most previous presentations of a given academic subject. Catechisms and textbooks presented 'facts' or their equivalents: memorizable, flat statements

inviting further reflection by the paradoxes they involved presenting not 'facts' but rather reflections, often of a gnomic kind, of residually oral manuscript cultures tended to be of a proverbial sort, given field. By contrast, the memorable statements of oral cultures and that told straightforwardly and inclusively how matters stood in a

given passage of discourse, one used simultaneously logic, grammar, rhetoric, and possible other arts as well (Ong 1958b, pp. 30–1, though the arts were mingled in 'use' – that is to say, in working up a as houses with intervening open spaces are separate from one another, the mind. Every art was in itself completely separate from every other, showed exactly how the material was organized spatially in itself and in could be presented in printed dichotomized outlines or charts that enclosed 'art'. Moreover, the material in each of the Ramist textbooks grammar, arithmetic, and all the rest. These lectures lay outside the selfcomplete and self-contained. Ramus relegated difficulties and refutations of adversaries to separate 'lectures' (scholae) on dialectic, rhetoric, everything in the art was completely self-evident and the art itself was Ramists maintained): if you defined and divided in the proper way, properly according to Ramist method, involved no difficulties at all (so ties or 'adversaries' appeared. A curriculum subject or 'art', if presented ledged interchange with anything outside itself. Not even any difficuldisposed of. A Ramist textbook on a given subject had no acknowdivisions, until every last particle of the subject had been dissected and definitions and divisions leading to still further definitions and more genre: textbooks for virtually all arts subjects (dialectic or logic, rhetoric, grammar, arithmetic, etc.) that proceeded by cold-blooded Peter Ramus (1515-72) produced the paradigms of the textbook

no need to make everything a kind of Menippean satire, a mixture of another way a greater tacit understanding. The writer could go his or her own way confidently (greater distance, lack of concern). There was showed in one way a greater distance between writer and reader and in lengthy prose composition. The fixed point of view and fixed tone view, a fixed tone could now be preserved through the whole of a 126-7, 135-6), came into being with print. With the fixed point of point of view, which as Marshall McLuhan pointed out (1962, pp. A correlative of the sense of closure fostered by print was the fixed

> with certain more or less established points of view. clientele of readers unknown personally to the author but able to deal ing). At this point, the 'reading public' came into existence – a sizable could be confident that the reader would adjust (greater understandvarious points of view and tone for various sensibilities. The writer

## POST-TYPOGRAPHY: ELECTRONICS

orality. Although the full relationship of the electronically processed itself is too vast a subject to be considered in its totality here, some few word to the orality-literacy polarity with which this book concerns fied by print and has brought consciousness to a new age of secondary points need to be made. the commitment of the word to space initiated by writing and intensi-The electronic transformation of verbal expression has both deepened

motion and optimizes analytic sequentiality by making it virtually maximizes commitment of the word to space and to (electronic) local of intensity by print, is further intensified by the computer, which spatializing of the word, initiated by writing and raised to a new order swell the typographic output. Finally, the sequential processing and electronically gathered and/or processed makes its way into print to aid of electronic equipment. And of course information of all sorts soon virtually all printing will be done in one way or another with the minals is replacing older forms of typographic composition, so that pp. 82-91). Moreover, as earlier noted, composition on computer terinformal (oral folk believe it should normally be formal – Ong 1971, typographic folk believe that oral exchange should normally be forms it because it fosters a new, self-consciously informal style, since the thousands which would never have seen print before taping was possible. The new medium here reinforces the old, but of course trans-Electronically taped interviews produce 'talked' books and articles by eliminating printed books but are actually producing more of them. Despite what is sometimes said, electronic devices are not

of sound tape, electronic technology has brought us into the age of 'secondary orality'. This new orality has striking resemblances to the At the same time, with telephone, radio, television and various kinds

old in its participatory mystique, its fostering of a communal sense, its concentration on the present moment, and even its use of formulas (Ong 1971, pp. 284–303; 1977, pp. 16–49, 305–41). But it is essentially a more deliberate and self-conscious orality, based permanently on the use of writing and print, which are essential for the manufacture and operation of the equipment and for its use as well.

ings carefully to be sure that they are thoroughly spontaneous. we have decided that spontaneity is a good thing. We plan our happenary orality promotes spontaneity because through analytic reflection analytic reflectiveness implemented by writing is unavailable, secondinward, we are turned outward because we have turned inward. In a who are turned outward because they have had little occasion to turn like vein, where primary orality promotes spontaneity because the must be socially sensitive. Unlike members of a primary oral culture, programmatically. The individual feels that he or she, as an individual, our age of secondary orality, we are groupminded self-consciously and group-minded because no feasible alternative had presented itself. In McLuhan's 'global village'. Moreover, before writing, oral folk were for groups immeasurably larger than those of primary oral culture -individuals in on themselves. But secondary orality generates a sense group, a true audience, just as reading written or printed texts turns strong group sense, for listening to spoken words forms hearers into a primary orality. Like primary orality, secondary orality has generated a Secondary orality is both remarkably like and remarkably unlike

The contrast between oratory in the past and in today's world well highlights the contrast between primary and secondary orality. Radio and television have brought major political figures as public speakers to a larger public than was ever possible before modern electronic developments. Thus in a sense orality has come into its own more than ever before. But it is not the old orality. The old-style oratory coming from primary orality is gone forever. In the Lincoln-Douglas debates of 1858, the combatants – for that is what they clearly and truly were – faced one another often in the scorching Illinois summer sun outdoors, before wildly responsive audiences of as many as 12,000 or 15,000 persons (at Ottawa and Freeport, Illinois, respectively – Sparks 1908, pp. 137–8, 189–90), speaking for an hour and a half each. The first speaker had one hour, the second an hour and a half, and the first

out of which such oratory grew. nia and far beyond, or of the oral lifestyle and oral thought structures oratory reaching back from pre-electronic times through two millencentury ago. But what they hear will give them very little idea of the old more talk, from major public figures than people commonly heard a its primary oral roots. Others perhaps hear more oratory, or at least remember what oratory was like when it was still in living contact with literate domesticity is rampant. Only quite elderly persons today can accommodate themselves to the psychology of the media. Genteel hostility might break open the closure, the tight control. Candidates dull. Electronic media do not tolerate a show of open antagonism tions with each other in which any agonistic edge is deliberately kept absent, invisible, inaudible. The candidates are ensconced in tight little today are completely out of this older oral world. The audience is exhausted at the end of each bout. Presidential debates on television speaker and audience. The debaters were hoarse and physically balanced, highly agonistic style, and the intense interplay between inated by a sense of closure which is the heritage of print: a show of Despite their cultivated air of spontaneity, these media are totally dombooths, make short presentations, and engage in crisp little conversa-Primary orality made itself felt in the additive, redundant, carefully another half hour of rebuttal — all this with no amplifying equipment

which, back of its human authors, has God as author as no other writing does. In what way are the two senses of God's 'word' related to one another and to human beings in history? The question is more one another are before

focused today than ever before. So are countless other questions involved in what we now know about orality and literacy. Orality–literacy dynamics enter integrally into the modern evolution of consciousness toward both greater interiorization and greater openness.

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Besides works cited in the text, this bibliography lists also a few other works the reader may find particularly helpful.

The bibliography does not undertake to give complete coverage of the massive literature in all fields where orality and literacy are matters of concern (for example, African cultures), but only to list some significant works which can serve as entries into major fields. Many works listed here contain bibliographies that lead further into the various issues.

Most of the major work on orality—literacy contrasts has been done in English, much of the pioneering work by scholars in the United States and Canada. This bibliography concentrates on English-language works, but includes some few in other languages.

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