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Computers and Japanese Literacy ----Nihonzin no Yomikaki Nôryoku to Konpyûta

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Nihonzin no Yomikaki Nõryoku to Konpyûta

Computers and Japanese Literacy

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Watakusi wa saikin, gendai no konpyûta siyô to Nihongo ni tuite kenkyû site orimasu. Gengogakusya mo konpyûta no nôryoku ya mondaiten ni tuite iken o happyô suru sekinin ga aru to omou kara desu.

Sate, Amerika no zen- Kôsei Kyðiku tyðkan, John Gardner-si no kotoba de hazimetai to omoimasu. Sore wa "aizyô nasi no hihan to hihan masi no aizyô (Eigo de iu to, "unloving criticism and uncritical love") to iu kotoba desu. Gardner-si wa. Amerikazin no aikokusvugi ni tuite Amerika o sukosi de mo hihan site wa ikenai to syutyô suru hito wa kangaetigai da. aizvõ nasi ni syakai ya bunka no ketten o hihan bakari suru koto wa motiron warui keredo, hihan sore zitai o kiratte kokusuisyugi o susumeru koto mo syôrai no tame ni yoku nai, to iimasita. Kono koto wa bokoku igai no syakai to bunka ni tai suru baai de mo onazi de wa nai desyô ka? Gengogakusya ya rekisigakusya mo "aizyô nasi no hihan to hihan nasi no aizyô" to iu ryôkyokutan o sakeru yô ni sita hô ga ii to omou no desu. Watakusi wa Nihon no gengo to bunka o senmon ni site, Nihon ni tai site aizyô o motte orimasu kara koso, Nihongo no hyôkihô ya Nihonzin no yomikaki nôryoku ni

I am currently engaged in research on contemporary computer usage and the Japanese language. Linguists too, I believe, have a responsibility to present their views on the potentials and problems of computers.

Let me begin by quoting the former U.S. Secretary of Health, Education, and Welfare, John Gardner. I am thinking of his phrase "unloving criticism and uncritical love." By this, he meant that it was wrong for proponents of American patriotism to oppose even the slightest criticism of the United States: although it is bad to dwell unsympathetically on finding fault with social and cultural shortcomings, it is equally bad for the future of society to advance nationalism and eschew all criticism. I think that this is also true when considering foreign societies and cultures. Linguists and historians would do well to avoid the twin extremes of "unloving criticism and uncritical love." As someone professionally involved with the language and culture of Japan, I have an affection for the country, but for that very reason, I wish to call into question the accepted theory of Japanese script and literacy.

tuite no teisetu o mondai ni site iru wake desu. Iwavuru zyohoka svakai no zidai ni hairi, ippan no hitobito ga pasokon ya wapuro o kozin-yô ni tukau yô ni naru ni turete, nettowaku tūsin, kyôiku-yô <u>sohutowea</u>, sözőteki na puroquramingu nado ga yökyü sarete kite iru desyô. Mosi sono konpon ni aru yomikaki ndryoku no henka to genzyd o gokai sureba, gôriteki na konpyûta siyôhô o kaihatu dekinai darô to omou kara desu.

Sate, hyôi mozi to iu kotoba wa Nihongo ni tuite no hon ni yoku dete imasu kara kokugogaku no yôgo da to itte mo ii hodo desu ga, hyði mozi to iu mono wa zissai ni sonzai site iru desyô ka? Kyakkanteki ni kangaete miru to, dono gengo mo konponteki ni wa <u>hanasu</u> mono Mozi wa syakaiteki. rekisiteki na men ga arimasu ga, mozi wa kotoba no imi no moto de wa arimasen. Tatoeba, itizi mo vomenai mômoku no hito de mo. hoka no syögai ga nai kagiri, bokokugo ga kanzen ni hanaseru vô ni narimasu. Sitagatte, hanasi-kotoba to wa mattaku kankei ga nai mozi nado to iu mono wa muimi na gainen desu. Gengo no imi wa gengo no közð kara hassei si, mozi wa sono han'ei de sika nai wake desu. Kore wa toku ni kore kara no konpyûta o kangaeru toki ni wasurete wa ikemasen.

Tokoro de, genzai, Nihon de urete iru <u>pasokon</u> nado wa hotondo iwayuru Nihongo zyôhô syori nôryoku ga tuite iru to iu koto ni natte imasu ga, zitu wa Nihongo zyôhô syori to iu yori, kanzi kanamaziribun syori to itta hô ga seikaku desu. Sono ue, Nihon no <u>sohutowea</u> kaihatu

As we enter the age of the socalled informational society, and as more and more ordinary people begin to use computers on an individual basis, demands on network communications, educational software, creative programming, and so on, will steadily increase. Unless we understand the present situation and history of literacy, which underlies all these applications, we cannot hope to develop a rational basis for computer usage.

The term "ideographic characters" appears so often in books on the Japanese language that one might say it has become a stock phrase of Japanese linguistics. I wonder, however, whether such things as "ideographs" actually exist. When examined objectively, all languages are fundamentally speech. Characters are not the source of the meanings of words, although they do have their social and historical aspects. For example, blind people who cannot read a single character can nonetheless speak their native tongues perfectly, unless they suffer from some other handicap. The very idea of characters totally divorced from speech is therefore meaningless. For the meaning of language emerges from the structure of language, of which writing is merely a reflection. It is particularly important that we not forget this when we consider the computers of the future.

Today, however, virtually all the personal computers sold in Japan are supposed to provide so-called Japanese information processing capabilities. But it would be more accurate to say that they provide Japanese script manipulating capabilities; moreover, Japanese

ga <u>hâdowea</u> kaihatu hodo susunde inakute, sono hotondo zenbu wa mada Eigo ni motozuita <u>puroquramu</u> gengo (tatoeba BASIC ya FORTRAN) de okonawarete iru no desu. Tumari, Nihon wa sohutowea kaihatu ga okurete iru no ni, "kanzi ga tukaenakereba hontô no Nihongo wa kakenai" to iu kangaekata ga ökö site iru no desu. Kô iu yô na kangae wa, tatoeba Keiô Daigaku no Suzuki Takao kyôzyu no <u>Tozasareta gengo</u> ya Tukuba Daigaku no Kaiho Hiroyuki zyokyôzyu no Kanzi o kagaku suru to iu hon nado ni dete iru to site mo, gengogaku no zyôsiki kara hazurete imasu si, mata sinkei-gengogaku no zikken kekka ya rinsyô keiken to mo kuitigatte iru no desu. (Kore ni tuite wa, Canada no McGill Daigaku no Paradis, Hagiwara, Hildebrandt syosi no sugereta ronpyô o zehi sankô ni site itadakitai to omoimasu.)

Yð suru ni, Nihongo o konpyûta de atukau toki ni, sono kotoba no imi sae wakareba, kanagaki de mo rômazigaki de mo zyûbun desu. Motiron, meibo sakusei, insatu nado, sunawati kanzi sore zitai ga <u>dêta</u> to naru baai ni wa, kanzi o nyûryoku suru hoka sikata ga arimasen ga, nitizyô no ôku no sigoto ni wa sonna hituyô ga arimasen. Sitagatte, "kanzi ga tukaenakereba, Nihongo ga kakenai" to iu taido wa kangaetigai bakari de wa naku, sohutowea no mondai no omo na gen'in no hitotu ni tigai nai no desu. Dôyô no koto o, tatoeba Kokuritu Minzoku Hakubutukantyô no Umesao Tadao hakusi ya Tôkyô Daigaku Rigakubu no Yamada Hisao kyôzyu nado ga sude ni siteki site imasu ga, Nihon no seizi to

bunka no sekai de wa kô sita

ga sukunai yô desu.

tyûkoku o ki ni tomete iru hito

software development is not keeping up with hardware development, and is still being carried out in programming languages (such as BASIC and FORTRAN) based on English. other words, the idea that "you can't write Japanese without Chinese characters" is widespread even though Japan lags behind in software development. Although this kind of thinking can be found in books, such as Suzuki 1975 and Kaiho 1983, by faculty at bigname universities, it flies in the face of the common sense of linguistic science, and is contradicted by both experimental and clinical results in psycholinguistics (Paradis et al. 1985).

To put it as briefly as possible, when one is dealing with the Japanese language on computers, all that matters is that word-meanings can be understood; either kana alone or Latin letters alone are sufficient. Of course, in applications such as preparing name lists and typsetting, in which Chinese characters serve as data in their own right, there is no option but to input Chinese characters; however, for most daily tasks, there is no such necessity. Therefore, the idea that "you can't write Japanese without Chinese characters" is not only a misconception; it is unquestionably one of the main reasons for Japan's software This has already been problems. pointed out by prominent Japanese such as Umesao Tadao (1972) and Yamada Hisao (1984),

Watakusi no tatiba kara mireba, Umesao-si ya Yamada-si no siteki wa akiraka ni tadasii no ni, ôku no Nihonzin ga Suzuki-si ya Kaiho-si ni sansei site iru no wa zitu ni husigi na Sono riyû ga koto desu. wakattara, gendai Nihon no syakai-gengogaku o daibu sinpo saseru koto ga dekiru no de wa nai ka to omoimasu. Watakusi wa kotosi, Kokusai Kôryû Kikin no fellow to site kono mondai nado ni tuite kenkyû site orimasu ga, ima made ni wakatte kita koto wa tugi no tôri desu.

Mazu, Nihonzin no gengo taido wa Dainizi Sekai Taisen no atc wa kanari kawatte itta to iu koto ni tyûmoku site itadakitai Tatoeba, ima wa no desu. "Gaikokuzin wa kessite Nihongo ga masutā dekinai" to iu kangae o motte iru hito wa ôi desyô ga, Dai-Nihon teikoku zidai no Taiwan to Tydsen ni tai suru kyðiku seisaku o sukosi de mo mireba, Nihon no kokusuisyugisya de mo gaikokuzin ni mo Nihongo ga masutâ dekiru si, Nihonzin de nai hito ni Nihongo o kyôsei suru no wa tôzen da to omotte ita yô desu. Mô hitotu no rei wa kokuzi kaikaku no koto desu. Genzai wa Nihongo hyôkihô o sara ni kantan ni siyô to iu koe ga sukunaku narimasita ga, Meizi zidai syoki kara Taiheiyô Sensô no owarigoro made wa, seizi ga motto hosyuteki datta ni mo kakawarazu, Rômazikai ya Kanamozikai, sara ni Monbusyô no Rinzi Kokugo Tyôsakai ya sono ato no Kokugo Singikai nado ga zutto katuyaku site ita no wa zizitu desu. Sono 70-nenkan no zyunbi kikan ga nakattara, Senryògungawa no aturvuoku ni ôzite, iwayuru tôyô kanzi to

but it seems that few Japanese in the worlds of politics and culture have taken their advice to heart.

From my point of view, it is quite incredible that so many Japanese agree with Suzuki and Kaiho when the arguments of Umesao and Yamada are so obviously correct. Surely, if we could understand the reason for this, we could greatly advance Japanese sociolinguistics. I have been doing research on this problem this year as a Japan Foundation fellow, and what follows are the conclusions I have reached so far.

First of all, I think we need to pay attention to the fact that Japanese attitudes towards languages underwent a considerable change following World War II. For example, there seem to be many people who hold the belief that "no foreigner can ever master Japanese," but if we look at the educational policies in Taiwan and Korea during Japan's imperialist phase, it seems that even the ultranationalists, so far from thinking that foreigners could not master Japanese, thought it reasonable to <u>force</u> Japanese on non-Japanese. Script reform provides another example. many people are calling for more script reform today, but it is a fact that the Romanization Society, the Society for Kana Writing, the Ministry of Education's Provisional National Language Survey Committee, and its successor, the National Language Investigation Committee were active from the Meizi Period right on to the end of the Pacific War, despite a far more conservative political

gendai kanazukai nado o tadati ni kimetari dekinakatta hazu desu.

Sono go, Syôwa 20-nen goro kara Nihonzin no gengo taido ni wa ziminzoku-tyûsinsyugi no keikô ga dandan tuyoku natte kita yô desu. Genzai no <u>konpyûta yûza</u> no aida ni aru "kanzi o tukaenakereba Nihongo ga kakenai" to iu kangae nado ga kono keikô no hitotu to sureba, kore wa sensô o taiken sita hito bakari de wa naku, sensô o siranai hito ni mo aru kangae na no de, sore wa haisen to iu syakai no itidekigoto kara hassei site kita hazu wa nai no desu.

De wa, Syôwa 20-nen ga dô site zyûyô na magarikado ni natta ka to ieba, watakusi wa sinkyðiku seido no zissi ni yoru senzen no kyūsei kôkô no haisi de wa nakatta ka to omoimasu. Sengo wa, seito ga danzyo byôdô ni atukawareru yô ni natte, nôryoku sae areba hotondo dare de mo kôkô ya daigaku made susumeru yô ni natta wake desu. Kono koto wa senzen to kurabereba yahari kakumeiteki na henka desita. Sikamo mozi kaikaku to dôzi desita no de, Nihonzin no yomikaki nôryoku ni bakudai na eikyô o ataeta no de wa nai ka to omo masu.

Nihonzin no yomikaki nôryoku wa senzen mo sengo mo amari tigatte inai to iu koto ga teisetu ni natte iru yô desu ga, sengo wa kanzi no siyôsû no gensyö ya onkun-yomi no seigen atmosphere than exists today. Indeed, had it not been for this period of 70 years of preparation, it is unlikely that the so-called tôyô kanzi and gendai kanazukai reforms could have been implemented so quickly in response to Occupation pressures.

It was later, from around 1945, that the ethnocentric tendency in Japanese language attitudes gradually grew stronger. To the extent that the attitude among today's computer users that "you can't write Japanese without Chinese characters" is part of this trend, it is something which belongs to those who know nothing of the war, not just those who lived through it; therefore, one cannot explain it be saying that it came from a single event, such as the surrender, which traumatized society.

What was it, then, that made 1945 a turning point? would suggest that it was the abolition of the prewar higher schools effected by the implementation of a new educational system. After the war, students, regardless of sex, were treated equally, and almost anyone could go on to high school or university as long as he or she had the This was a truly talent. revolutionary change when compared with the prewar situation. Moreover, it took place simultaneously with script reform, and so had an enormous influence on Japanese literacy.

It is generally believed that there is not much differences between Japanese literacy before and after the war, but when one looks at the whole Japanese nation today, the ni mo kakawarazu, Nihon kokumin zentai o mireba, ippan no hitobito no gengo seikatu wa kanarazusimo kantan ni natta to wa kagirimasen. Naze ka to iu to, senzen wa, ôku no hito wa amari kanzi o yondari kaitari suru koto ga dekinakute mo ii to omowarete ita kara desu. Ippan no hitobito wa hurigana ga nakereba sinbun ya zassi wa yomemasen desita si. seikai ya keizaikai no sidôsya ga kansin suru vô na bunsyô de, sakubun dekiru hazu wa arimasen desita. Zyosei wa sydgakkô o sotugyô site mo, kôtô zyogakkô ni susumu koto wa mezurasikatta no desu. Sore dake no riyû de mo, zenkoku no yomikaki nôryoku no heikin suizyun wa sengo ni kurabete yaya hikukatta wake desu. Sosite dansei no hô wa nanwari gurai ga tyûgaku izyô ni singaku sita ka to ieba, 2-wari ni mo tassite imasen desita. Kono setumei wa ato de simasu qa, ima wa kô iu zizyô ga atta koto o zentei ni site okimasyô.

Senzen to genzai o kurabete mita toki, yomikaki nôryoku wa dô kawatta desvô ka? Genzai no Nihon de wa tekirei zinkô no 95% gurai ga kôkô ni haitte iru sô desu. Kôkô ni yotte yôbô ni sa ga aru ka mo siremasen ga, Monbusyô wa kôkô ni hairu mae ni sukunaku to mo zydyd kanzi gurai made wa syûtoku suru yô ni to itte iru yô desu. Zissai ni wa zyôyô kanzi de ziyû ni tukaikonasenai gakusei ga ĉi no de wa nai ka to omoimasu ga, kore wa seihu no hôsin desu kara, tonikaku kizyun ni simasyô. De wa, senzen ni wa, kono kizyun no teido made kanzi ga dekiru no wa zinkô zentai no nanwari datta desyô ka? Rakkanteki ni mite mo, yahari 2-

"language life" of the average Japanese has not necessarily gotten any easier despite the reduction in the number of Chinese characters in use limitations on character readings. This is because, before the war, it was generally believed that most people didn't have to be able to read or write Chinese characters at a very high level. The average person couldn't read newspapers or magazines unless they had hurigana (sidenotes in kana giving the readings of characters), and no one expected them to be able to write in the style approved of by the country's political and economic leaders. It was unusual for a girl to go on to secondary school, if she graduated from primary school at all; for that reason alone, the average level of literacy had to be low relative to the postwar period. And the number of boys going beyond junior high school couldn't have been more than 20%. (The justification for this estimate will be given later.)

How has literacy changed from the prewar period to the present day? Currently, 95% of the school-age population enters high school. There are perhaps differences in the quality of high schools, but the Ministry of Education seems to expect that all children will learn the 1,945 <u>zyôyô kanzi</u> before entering high school. There may be many students who do not actually learn how to use all these characters freely, but this is the government's policy, and so can be taken as a standard. Now what percentage of the population attained this standard before the war? Even the most optimistic estimate would not exceed 20%. In other

wari ni suginakatta desyô. Tumari, senzen no syônen syôzvo no hobo 8-wari wa genzai no gakusei hodo kanzi syūtoku no omoni ga nakatta koto ni narimasu. Kari ni, muzukasii kanzi ga oboerarenai gakusei wa, senzen mo sengo mo onazi wariai datta to site mo, sengo, kôkôsei no kazu ga nanbai ni mo narimasita kara, ninzûteki ni wa kyûzô sita koto ni narimasu. Gyaku ni iu to, senzen wa itininmae no Nihongo ga kakenakattari, gakumonteki na hon ga yomenakattari site mo sunda no ni, sengo wa, sono gurai dekinakereba hazi da to iu kimoti ga oya ya sensei no aida de ippanteki zyôsiki ni natte iru no desu.

Sate, senzen no Nihonzin no yomikaki nôryoku ni tuite no tôkei qa hotondo arimasen no de, kore ni tuite kansetuteki ni kenkyû suru hoka sikata arimasen. Siryô wa sinbun va zassi no hurigana siyöritu, hon no uriage, tyôhei kensa no kekka, bunkazin (tatoeba, Nitobe Inazô) no kozinteki iken nado, Nihongawa no kansetuteki na mono desu. Reigai no hitotu wa, Berlin Daigaku no Clemens Scharschmidt kyðzyu no 1924-nen no "Schriftreform in Japan" to iu ronbun desu. Kono ronbun mo deta no urazuke ni yowai no desu ga, tôzi no syôgakkô no sotugyôsei no gakusyû mokuhyô wa kanzi ga 2,380-zi yomete, sono naka no 1,360-zi ga kakeru koto de atta no ni, quntai ni nyûtai sita bakari no syonen wa 1,000zi sika yomenaku, 500-600-zi sika kakenakatta to iu tôkei ga dete imasu. Scharschmidt no kenkyû hôhô ga humei desu kara, kono sûzi no sinraisei wa wakarimasen ga, hoka no hitotati ni yoru sengo no kenkyû mo kôryo ni irereba. Scharschmidt no hôkoku wa tôzi no zituzyô ni kanari tikai no de wa nai ka to

words, a full 80% of prewar youth did not bear the burden of learning Chinese characters now borne by today's students. even that relative number of students who cannot learn difficult characters, before and after the war, is the same, there must have been a rapid increase in the absolute number. To put it the other way around, one could get by in the prewar period without being able to write educated Japanese or read serious books, but after the war, it became "common sense" among parents and teachers that inability to do these things was a matter of shame.

Since there are virtually no statistics on Japanese literacy before the war, one must investigate the situation indirectly. On the Japanese side, the evidence consists of the hurigana usage found in newspapers and magazines, sales figures of books, military conscription test results, and the remarks of prominent individuals (such as Nitobe Inazô [1931]). One exception is This article Scharschmidt 1924. is short on data, but it does state that although elementary school graduates were supposed to be able to write 1,360 characters and read 2,380, young conscripts could only write about 500 or 600 and read 1,000. Scharschmidt's research methods are unclear, and I do not know how reliable these figures are, but when research by others is taken into account (e.g. Taira 1971, Twine 1983), it appears that the figures which Scharschmidt reports must be close to the actual conditions of the time.

omoimasu. Sengo no kenkyû de wa, Amerika no Illinois Daigaku no Taira Kôzi kyôzyu to Australia no Griffiths Daigaku no Nanette Twine kôsi no Meizi zidai no yomikaki nôryoku to mozi kaikaku undô ni tuite no kenkyû ga toku ni tyûmoku ni atai suru to omoimasu.

Sengo no siryô to site wa, Syôwa 23-nen no Nihon Yomikaki Nôryoku Tyôsa ga arimasu. Sono kekka ga Syôwa 26-nen ni syuppan sareta toki, itibu no mozi kaikaku suisinsya ga yosô sita hodo warui kekka de wa nakatta no de, ima de mo senzen no Nihonzin no yomikaki nôryoku wa zissai ni takakatta koto ni naru to omou hito wa ôi yô desu. Sikasi, tyôsa o tyûi site yomeba, mattaku hantai no keturon ga deru no desu. Tugi no in'yô o kiite kudasai:

Nihon kokumin no monmôritu wa kiwamete hikui ga, <u>literacy</u> o motu to mitomerareru mono no ritu mo kiwamete hikuku, 6.2% sika nai. (426 peizi.)

Kanzi no kakitori wa, mondai no uti de mottomo seiseki ga waruku, sikamo, tokuten no dankai mo, hoka no mondai to kurabete, issõ itizirusii koto ga akiraka ni natta. Nihon kokumin ni totte mozi gengo no hutan wa "kanzi no kakitori" no ue ni ôkiku kakatte iru to ieru. (426 peizi.)

kokuzi mondai o ronzuru
hitotati no iu, "Nihon
kokumin no genzai no
yomikaki nôryoku wa seizyô
na syakai seikatu o itonamu
no ni huzyûbun de aru" to
iu kasetu wa seiritu suru.
. . . Toku ni, kanzi no

As for postwar materials, we have the Literacy Survey of 1948. When its results were published in 1951, they were not as bad as had been predicted by some proponents of script reform, and even today there seem to be many who believe that it showed that the level of prewar literacy was actually high. If you read the survey itself, however, you will see that the conclusion is diametrically the opposite. For example:

Complete illiteracy among Japanese is extremely low, but the number of people who possess <u>full</u> <u>literacy</u> is also extremely low, only 6.2%. (p. 426.)

Questions requiring the writing of kanzi from dictation produced the poorest results, and in all groups tested produced significantly lower scores when compared with other problems. It can be said that the burden of written language for the Japanese depends largely on this skill (p. 426.)

The hypothesis, advanced by those who have studied problems of the national language and script, that "the literacy of today's Japanese is inadequate for conducting a full social life", was confirmed. . . . In

kakitori no tikara wa itizirusiku hikuku, seizyô na syakai seikatu qa yôkyû suru kanzi no kakitori no tikara wa akiraka ni huzyûbun de aru to ieru. (425 peizi.)

Genzai no Nihon no yomikaki nôryoku ni tuite wa, syôsai na dêta ga motto ĉi koto wa motiron desu ga, Amerika no John DeFrancis kyôzyu to Australia no J. V. Neustupný kyôzyu no kenkyû ni yoreba, Scharschmidt ga kiroku sita toki no zyôtai to genzai no zyôtai ni wa wazuka na sõi sika nai no desu. Saikin, tyûgaku o sotugyô sita gakusei wa, senzen to dôyô, 500-zi sika ziyû ni tukaenai wake desu. Kono 60-nenkan ni wa, kari ni yûtôseitati no tassei suizyun ga takaku natte kita to site mo. sore wa zinkô no itibubun ni tuite no koto desu. Sore yori, at random (musakui) ni erabareta gakusei no nitizyô yomikaki nôryoku no teido nado o zyûsi sita hô ga ii no de wa arimasen ka?

Sengo ni kokuzi kaikaku ga okonaware, ippanzin no gengo seikatu ga yutaka ni natta to wa ie, sono kokuzi kaikaku wa kanzi kanamaziribun no muzukasisa no konpon o kaeru ni wa itarimasen Sono tame, kôtô kyôiku o ukeru hito no wariai ga huete kuru ni turete, kanzi nado ni komaru hito ga zitu ni ôku natta no desu. Iya, kokugo bakari de naku, hoka no kamoku de mo yahari onazi yô desita. Tatoeba, 15-sai kara 24-sai made no seinen no zisaturitu o miru to, Syôwa 30-nen to 33-nen no aida ga <u>pîku</u> to natte imasu. Syôwa 34-nen kara 45-nen made qyaku ni densyô keikô ga arimasita kara, Thomas Rohlen hakusi ga 1983-nen no kenkyû de siteki sita tôri, sengo no seinen no zisaturitu wa zyuken

particular, the ability to write <u>kanzi</u> from dictation was remarkably low, and clearly inadequate for a full social life. (p. 425.)

There is, of course, much more, detailed data regarding current Japanese literacy; however, according to DeFrancis 1984 and Neustupny 1984, there hasn't been that much change from the situation recorded by Scharschmidt. Graduates of modern junior high schools, as in the prewar period, can freely use only about 500 characters. Even if we assume that, over the past 60 years, the level of accomplishment attained by the best students has risen, we are talking about only a small part of the whole population. Shouldn't we focus, rather, on the everyday literacy of students selected "at random"?

One might say that, due to the script reform of the postwar era, the "language life" of the average person became richer, but the script reform did not go far enough to alter the fundamental difficulties of the mixed kana/kanzi writing system. Consequently, as the proportion of people who received postprimary education increased, the number of those who experienced problems with kanzi actually grew larger. Indeed, this seems to be the case not only in Japanese language classes, but in other subjects as well. For example, there was a peak in the suicide rate of 15- to 24vearolds between 1955 and 1958. From 1959 until 1970, there was a decline; therefore, as pointed out by Rohlen (1983), one cannot

benkyô no aturyoku ni seihirei suru to wa setumei dekimasen.

De wa, naze Syôwa 30-nen to 33-nen no aida ga tyôten ni natta ka to ieba, sono toki wa sentvû ni umareta kodomotati ga sinsei kôkô o sotugyô suru ziki to itti site iru kara de wa nai ka to omoimasu. Sotugyô ga tikazuku ni ture, singaku suru ka, syûsyoku suru ka ni mayotta koto desvô. Sensei va ova nado wa sono sinkyðiku seido ni tuite no zyûbun na keiken ga nakatta no de, gakusei wa tekisetu na sigoto ya gakkô wa doko ka to nayande mo dare ni mo sôdan ga dekinatta desyô. Sore igo, zyugyő ni tuite ikenai kôkôsei no zettaisû wa huete ikimasita ga, sore ni mo kakawarazu, seinen no zisaturitu ga sagatta no wa, sono saisyo no ziki hodo huan o kanzinakatta kara desu.

Tada no gûzen ka dô ka sirimasen ga, tyôdo sono Syôwa 32-nen wa Kindaiti Haruhiko kyôzyu no Nihongo ya Oono Susumu kyôzyu no <u>Nihongo no kigen</u> nado ga <u>besuto-serâ</u> ni natta ziki ni atari, "Nihongo bûmu" to iu kotoba ga sinbun nado ni yoku deta mono desu. Kokugo Singikai wa okurigana kisoku o Syôwa 34nen ni happyô simasita ga, Monbudaizin ga Zimintônai no aturyoku ni sitagatte sono iin no hotondo sono yokunen made ni kaete simaimasita. (Kono sisai wa Ookubo Tadatosi-si no 1971nen no kenkyû ni kakarete imasu.) Gengo ni okeru genzai no ziminzoku-tyūsinsyugi no keikô no kizasi wa yahari kono koro kara hakkiri site kuru no desu.

Matomete ieba, sono gen'in wa sinkyôiku seido no zissi ni explain the juvenile suicide rate by saying it reflects increasing entrance examination pressure.

Why, then, the peak between 1955 and 1958? I think it is because it corresponds to the time when children born during the war were graduating from high school. As graduation approached, those children had to decide whether to try for college or seek employment. Their parents and teachers had not had sufficient experience with the new educational system, and so the students had no one to talk about the kind of jobs or schools they could expect to get into. Later on, the absolute number of high school students who couldn't keep up with the class increased; nevertheless, the juvenile suicide rate fell off becase they didn't feel as much uncertainty as existed during this initial experience.

Perhaps it was just coincidence, but it was at just this time that Kindaiti 1957 and Oono 1957 became best-sellers, and the newspapers were talking about a "Nihongo boom." National Language Investigative Committee announced rules for okurigana usage in 1959, but by the following year, the Minister of Education, under pressure from the Liberal Democratic Party, had packed the committee (see Ookubo 1971). It was from this period that the signs of linguistic ethnocentricism become clearly visible.

The cause of this, to summarize, was the establishment

arimasu. Syakai zentai no seisaku to kozin no sinri o nani ga tunaide iru ka to ieba, Nihongo no hyôkihô desu. Mondai wa hitokuti de ieba kanzi desu. Yô suru ni, tôyô kanzi nado no dakyôteki mozi kaikaku wa sore zitai waruku arimasen desita si. tôzi no kyôiku kaihô seisaku wa kitto yokatta to omoimasu ga, sorera o dôzi ni zissi sita koto ga omoigakenai kekka o unda no de wa nai ka to omoimasu. Kusuri ni tatoereba, betubetu ni nondara kiku no o ukkari site dôzi ni nonde simatta tame ni kaette byôki ga hidoku natta no to onazi de wa arimasen ka. Hukuzatu na sinrigakuteki riron o tateru hituyô wa issai arimasen.

Tumari, naze genzai no Nihonzin ga <u>kopnyûta</u> de kanzi ga tukaenakereba Nihongo ga kakenai to iu kangae o motte iru ka wa, kono yô ni syakai-gengogakuteki ni kaisyaku dekiru no desu. Sikasi, kono kangaekata wa, gôriteki na setumei ga arinagara, kekkyoku, kagakuteki na konkyo wa arimasen. Itirei to site, <u>wâpuro</u> o mainiti ka no yô ni tukatte iru Nihonzin no genzyô ni tuite kangaete mimasu. <u>Kîbôdo</u> ni wa nôritu ga takai kizyun hairetu wa mada arimasen. Kanzi henkan nyûryoku wa naraiyasui desu ga, Eibun no tatti taipu no supîdo to kosuto de wa dekimasen si, gairaigo ga hueru ni turete, sono kôka ga sukosi zutu sagatte ikimasu. Sono ue, kanzi henkan nyûryoku wa zituzikan tûsin (tumari tûsinmô tanmatu sôti) nado ni wa hutekitő desu. Sono kawari ni facsimile o tukatte mo ii to iu hito qa arimasu ga, ima de mo tegami ga kakitaku nai no de denwa o syottyû tukatte iru <u>bizinesuman</u> nado ga wazawaza tegaki nyûryoku o yorokonde suru desyô ka. <u>Wâpuro</u> o tukau to benri na men mo arimasu ga,

of the new educational system. The link between social policy and individual attitudes is to be found in the Japanese writing system itself. In a word, the problem is <u>kanzi</u>. The tôyô kanzi reforms were not bad in themselves, nor was the liberalization of education; but the combined effects of these two changes seems to have produced an unintended result. To make an analogy, it is like an illness which gets worse because one mixes two medicines which, taken individually, would effect a cure. There is absolutely no need for an elaborate psychological theory.

To put it another way, the question of why Japanese believe that Japanese cannot be written without kanzi can be given a sociolinguistic interpretation. The explanation of this way of thinking is rational, but the way of thinking itself is devoid of any scientific basis. give an example, consider the case of Japanese who use word processors daily. There is no efficient keyboard standard. <u>Kana-</u> or <u>rômazi</u>-to-<u>kanzi</u> conversion input is easy to learn, but cannot compete with English touch typing in speed or cost; moreover, as the number of loanwords from Western languages increases, the efficiency of such input systems declines. Furthermore, conversion input is inappropriate for real-time communications. Some people think that facsimile equipment can be used in these cases, but it is hard to believe that businessmen who avoid writing letters and are constantly on the telephone will happily switch to handwritten input systems. Word processors have their points of convenience, but

sizen ni kanzi no tukaisugi ya okurigana no matigai nado ga okori, rôdô no kôritu o takameru dokoro ka, kaette rôdô zikan ya sutoresu ga huete mo iru võ desu. Saigo ni, <u>wâpuro</u> ni tayotte iru hito wa genkô vôsi nado ni kaku toki kanzi o wasurete simatte iru koto ni ki ga tuku to iu gensyô ga arimasu. Desu kara, kanzi no syuturyoku ga hituyô na baai ni dake kanzi no nyûryoku o suru yô ni seigen site, zyūrai no tegaki mo heiyô sinakereba, sekkaku no kanzi bunka o ukkari nakusu yō ni naru desyô.

Iikaereba, syôrai, Nihonzin wa konpyûta no tame no hyôkihô to site kanzi to kana ni rômazi o kuwaeta hô ga ii to omoimasu. Nihongo no dêta ya puroguramu o rômazi de kaite mo aikawarazu Nihongo desu kara, kanzi sae tukawanakereba, ima sugu ni de mo Eigo nado to onazi sokudo de nyû medhia ya konpyûta ga riyô dekiru no desu.

they also encourage the overuse of kanzi, errors in okurigana usage, and, so far from raising productivity, often increase labor time and stress. As if this weren't bad enough, people who rely on word processors notice that they forget kanzi when they try to write with pencil and paper. Therefore, unless Japanese restrict kanzi input to those situations which require kanzi output, and integrate computers with the earlier handwriting techology, they will unwittingly lose the very <u>kanzi</u> culture they seek to preserve.

In short, I believe that Japanese will in the future have to add rômazi to kana and kanzi in their writing system. Japanese data and programs written in rômazi are after all just as much Japanese as those written in conventional script. In order to move into the new world of computers at the same pace as the English-speaking world, all that is necessary is giving up kanzi.

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Editor's Note: J. Marshall Unger is the author of The Fifth Generation Fallacy: Why Japan Is Betting Its Future on Artificial Intelligence. New York and Oxford: Oxford University Press, 1987.

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