

Excerpt of Mason, W. A., 1968: "Early Social Deprivation in the Nonhuman Primates: Implications for Human Behavior," in: Glass, D. C. (Ed.): Environmental Influences, New York (Rockefeller University Press) 1968, pp. 70-101.

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Early Social Deprivation in the Non-W.A. Mason. human Primates: Implications for Human Behavior. In D.C. Glass (Ed.) Environmental Influences. New York: Rockefeller University Press, 1968, 70-101 --- p. 93--Perhaps there is no need to emphasize that the living series only approximates the evolutionary series. We are not actually descended from the living apes, nor --they from the monkeys as we know them today. -- The linear model of primate evolution implies, however, that the living chimpanzee is more representative of what we were in our remote past than of what we are today. It implies that we can use the living primates as a means for looking into our own behavioral past, for getting at the evolutionary trends that have culminated in human behavior. It suggests that the implications for man of our findings on the nonhuman primates will be better appreciated if they are viewed from within a comparative perspective. W.A. Mason. Early Social Deprivation in the Non--human Primates: Implications for Human Behavior. In D.C. Glass (Ed.) Environmental Influences. NY: Rockefeller Univ. Press, 1968. 70-101. ·p.94 Adolph Schultz, the anthropologist, finds that rate of growth varies systematically within the primates. He states: "in regard to all parts of postnatal life one can recognize a clear trend toward prolongation, beginning in monkeys, as compared with lemurs, more pronounced in gibbons, still more in all_three_great apes and by far the most marked in man.** 1..... -----



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Early Social Deprivation in the Non-W.A. Mason. human Brimates - Implications -for Human In D.C. Glass (Ed.) Behavior. Environmental Influences. N.Y. Rockefeller Univ. Press, 1968. 70-101. p.94/5 On the grounds that nature tends to display a certain economy in such matters, we might guess that the reason there is more time for learning in the advanced primates is that more learning is required. Taking this line of reasoning a step further, we might argue that the slowing down of the rate of ontogenetic development and the increasing need for learning are, in fact, different facets of the same evolutionary process, and that this is a process which was identified many years ago and given the name neoteny. Early Social Deprivation in the Non-human Primates: Implications for Human W.A. Mason. Behavior. In D.C. Glass (Ed.) Environmental Influences. N.Y. Rockefeller Univ. Press, 1968. 70-101. p.97/8 The behavioral equipment of the newborn monkey, the newborn ape, and the newborn human are so similar that they seem to have been fashioned on the same basic plan: all show the so-called reflex grasping response all show the rooting, oral grasping and sucking patterns involved in the first feeding reactions; a]] cry when things don't go their way; and all are comforted when properly held. If we take a closer look at these primitive responses, however, some important differences between species are at once apparent. Place a newborn rhesus monkey on its back and, unless it is given-something-to-cling to, it immediately rights itself. Do the same thing with a newborn chimpanzee



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and it may perform weak and irregular sweeping movements with the arms, but it cannot right itself; and it is not able to do so with any real facility until it is several months old. The same ability is not present in the human infant until it is about e eight months eld. Reflex grasping displays the same trend. An infant monkey can support itself with its hands for as long as half an hour, a chimpanzee for no longer than five minutes, and a human infant for two minutes or less. In general, we can say that the strength and persistence of these primitive infantile responses are less in the human infant than in the chimpanzee, or in the chimpanzee than inthe rhesus monkey. To be sure, these differences reflect the greater

developmental maturity of the newborn monkey, but,
more important, they also indicate fundamental
differences between these species in the way that
-infant-behavior is organized. Viewed as a
collection of responses preadapted to nursing and to
maintaining contact with the mother, the behavior of

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the chimpanzee never displays the same reflex-like efficiency as that of the monkey. Indeed, if -evolution had not brought about complementary changes in the behavior of the chimpanzee mother that permitted her to compensate for the behavioral deficiencies of her infant, its chances of survival would be slim. No human infant, of course, is able -to cling, to find the nipple, and to nurse without extensive maternal assistance. The same infantile responses that make the difference between life and death for the rhesus monkey are often viewed in the human infant as mere behavioral curios, without obvious-adaptive-value. In the light of these examples, I think you will agree that, even among the earliest organized behaviors to appear in primate infancy, there is evidence of a systematic trend, not only toward

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slowing down the rate of development, but also in the way that behavioral organization proceeds. It would not be a gross oversimplification to state that, throughout infancy, the human is a less finished product than the chimpanzee, just as the chimpanzee is a less finished product than the infant monkey. W.A. Mason. Early Social Deprivation in the Non-human Primates: Implications for Human . . . Behavior. In D.C. Glass (Ed.) Environmental Influences. N.Y. Rockefeller Univ. Press, 1968. 70-101. p.99 All these observations suggest that the number and variety of discrete motor acts, and the tendency to combine such acts spontaneously into new and more complex patterns, increases progressively from monkey to man. One of the pathways toward human behavior thus seems to be a "loosening" of motor patterns, and we can already see the process at work in the great apes. That a similar change has occurred in the internal mechanisms that govern behavior seems most likely. We might refer again to the evidence on the relation between hormones and behavior in primates, and particularly in man. In my own work with yound

chimpanzees I have found it necessary to speak in

In my own work with young



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sex - do not seem to be able to provide a satisfact account of their behavior.	
W.A. Mason.	Early Social Deprivation in the Non- human Primates: Implications for Huma Behavior. In D.C., Glass (Ed.) Environmental Influences. N.Y. Rockefeller Univ. Press, 1968. 70-101. - p.100/101.
With so much early behavi ptuous of me as to what t with the com	n excellent research being done on the ior of human beings, it would be presum- e to try to offer any concrete suggestio these requirements might be. In keepin mparative spirit of this inquiry, howeve to characterize the special features of

variable and diffuse. Thus, it seems likely that the fhesus monkey's self-rocking is a reaction to deprivation of a specific form of stimulation ordinarily provided by the mother. We have good ---reason to believe that this simple explanation will not apply to the development of self-rocking in Although some form of stimulus deprivation humans. may well be a common element in the etiology of these behaviors in all primates, it is likely that at the human level a wider range of specific causes must be considered. 2. Once a developmental sequence has been set in motion, the human infant will show a greater tendency to elaborate on it than will the monkey or the chimpanzee. The progressive enrichment in stereotyped movements from monkey to man provides one illustration of this tendency, but many other examples could be given. We can see the same process at work -in-sound production - infant monkeys show little, if any, "spontaneous" sound production; chimpanzees .___

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- 4 2. "invent" lip noises, clicking sounds, and the like; but only the human infant truly babbles. And we can-see it in the progressive enrichment and complication of the patterns of playful exploitation of objects. (It-could be argued that this same trend leads to the progressive development of such characteristics as openness and duality of patterning, which the linguist Charles R. Hockett has described as design features of human language.) 3. Because of the retardation of growth rates and the "loosening" of behavioral organization, developmental stages are less sharply delimited in humans than in other primates. Sensitive periods in development are more difficult to establish, there is less likelihood that the withholding of any specific experience will result in developmental arrest, and there is a much stronger tendency for behavior to reflect a blending or intermingling of different developmental stages, different response patterns, and different motivational systems. 4. These evolutionary changes have meant that the structure and integration of human behavior have become heavily dependent upon environmental support and, at the same time, less dependent upon BRXIXERN MERICAL Specific forms of experience. Of all the primates, man has gone farthest in an evolutionary venture in which the reliability and efficiency of instinctive patterns have been sacrificed to achieve the behavioral plasticity and the liberation of psychic energies that are so much a part of the human condition.

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