

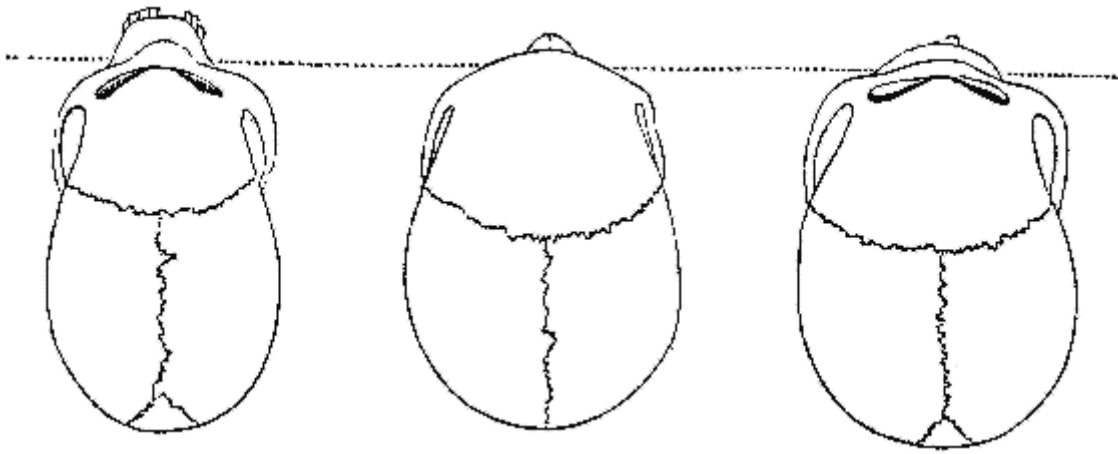
Craniometry

The Mismeasure of Man is a critical analysis of the early works of [scientific racism](#) which promoted "the theory of unitary, innate, linearly rankable [intelligence](#)"—such as [craniometry](#), the measurement of skull volume and its relation to [intellectual](#) faculties. Gould alleged that much of the research was based largely on [racial](#) and social prejudices of the researchers rather than their scientific objectivity; that on occasion, researchers such as [Samuel George Morton](#) (1799–1851), [Louis Agassiz](#) (1807–1873), and [Paul Broca](#) (1824–1880), committed the [methodological](#) fallacy of allowing their personal [a priori](#) expectations to influence their conclusions and analytical reasoning. Gould noted that when Morton switched from using bird seed, which was less reliable, to [lead shot](#) to obtain endocranial-volume data, the average skull volumes changed; however, these changes were not uniform across Morton's "racial" groupings. To Gould, it appeared that unconscious [bias](#) influenced Morton's initial results.^[7] Gould speculated,

“ Plausible scenarios are easy to construct. Morton, measuring by seed, picks up a threateningly large black skull, fills it lightly and gives it a few desultory shakes. Next, he takes a distressingly small Caucasian skull, shakes hard, and pushes mightily at the foramen magnum with his thumb. It is easily done, without conscious motivation; expectation is a powerful guide to action.^[8]

In 1977 Gould conducted his own analysis on some of Morton's endocranial-volume data, and alleged that the original results were based on *a priori* convictions and a selective use of data. He argued that when biases are accounted for, the original hypothesis—an ascending order of skull volume ranging from Blacks to Mongols to Whites—is unsupported by the data.

The "species" of man: "a Negro head . . . a Caucasian skull . . . a Mongol head", by S. G. Morton (1839)



The *first* of these figures represents a Negro head, elongated, and narrow in front, with expanded zygomatic arches, projecting cheek bones, and protruded upper jaw. The *second* is a Caucasian skull, in which those parts are nearly concealed in the more symmetrical outline of the whole head, and especially by the full development of the frontal region. The *third* figure is taken from a Mongol head, in which the orbits and cheek bones are exposed, as in the Negro, and the zygomæ arched and expanded; but the forehead is much broader, the face more retracted, and the whole cranium larger. Having been at much pains to give the *norma verticalis* of the skulls figured in this work, the reader will have ample opportunity to compare for himself. He will see that the American head approaches nearest to the Mongol, yet is not so long, is narrower in front, with a more prominent face and much more contracted zygomæ.

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