2nd Internatational

Arakawa + Gins Conference

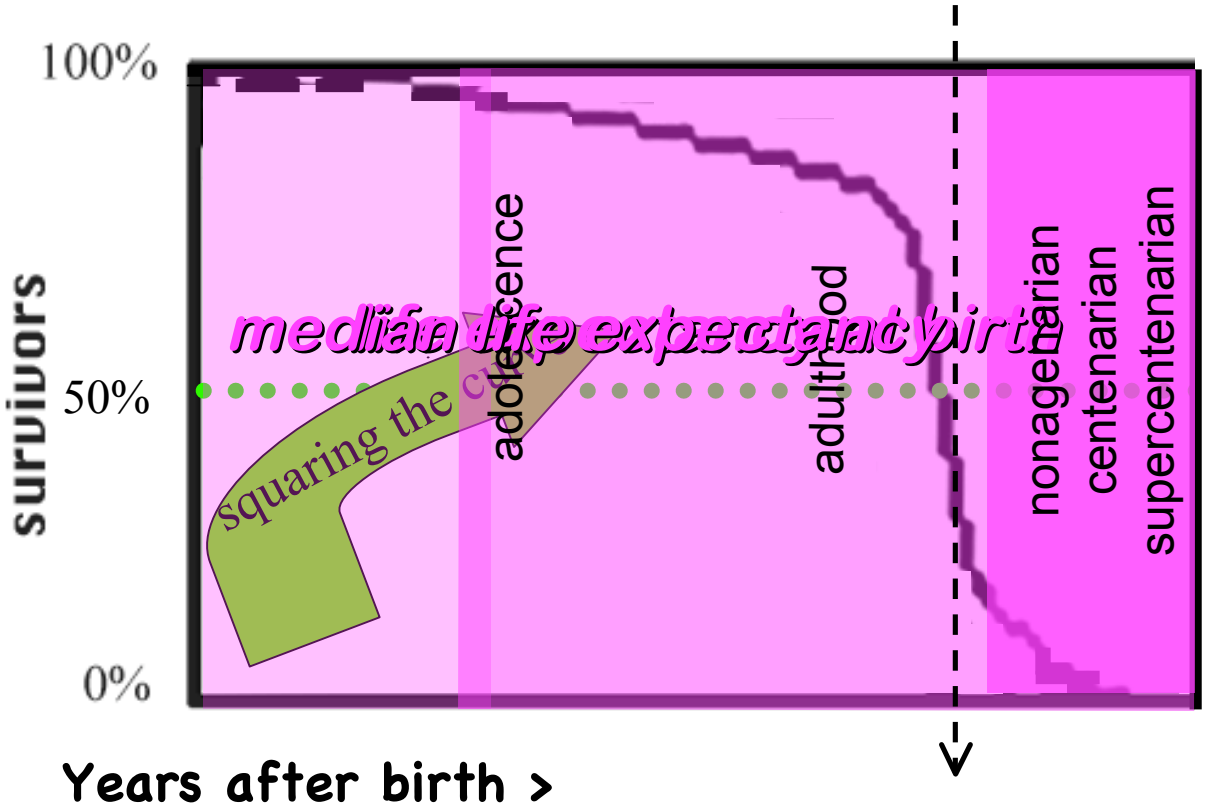
Toward Reversible Destiny

1) The way things are

consequence of biological evolution, the way human life has turned out through the natural selection of variants appearing spontaneously among our human populations, without planning—by chance

By Stanley Shostak

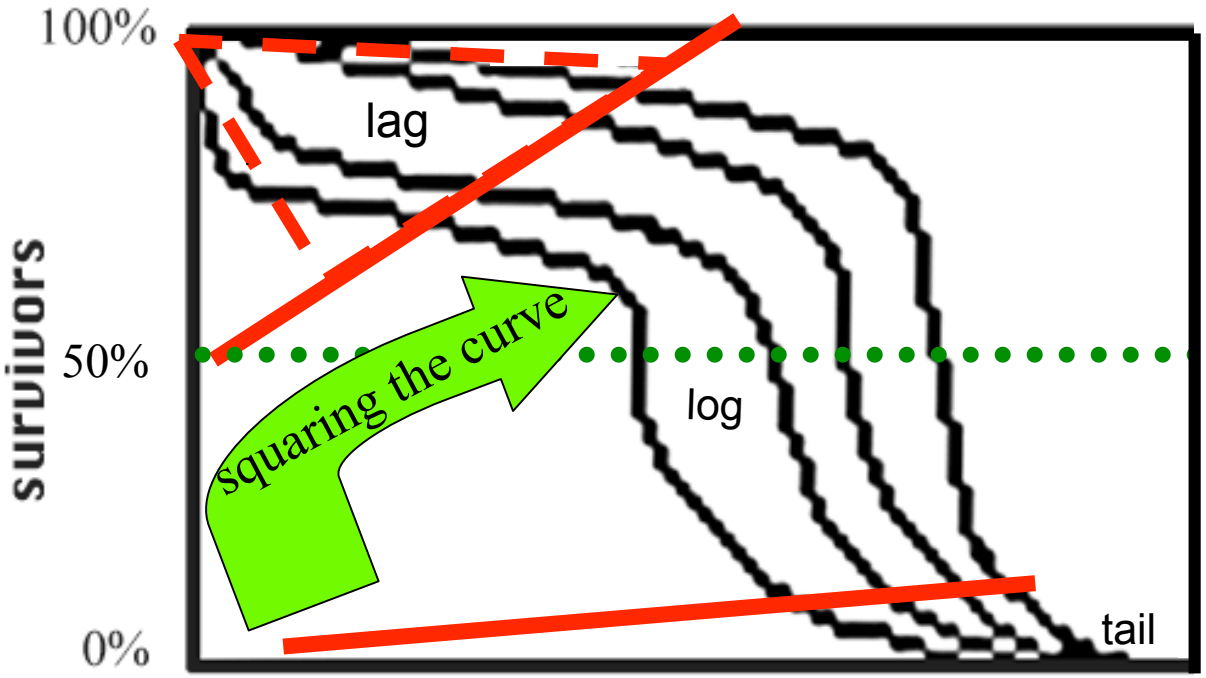
Life expectancy: survivors/years



median life expectancy at birth

life expectancy at birth

Life expectancy: survivors/years

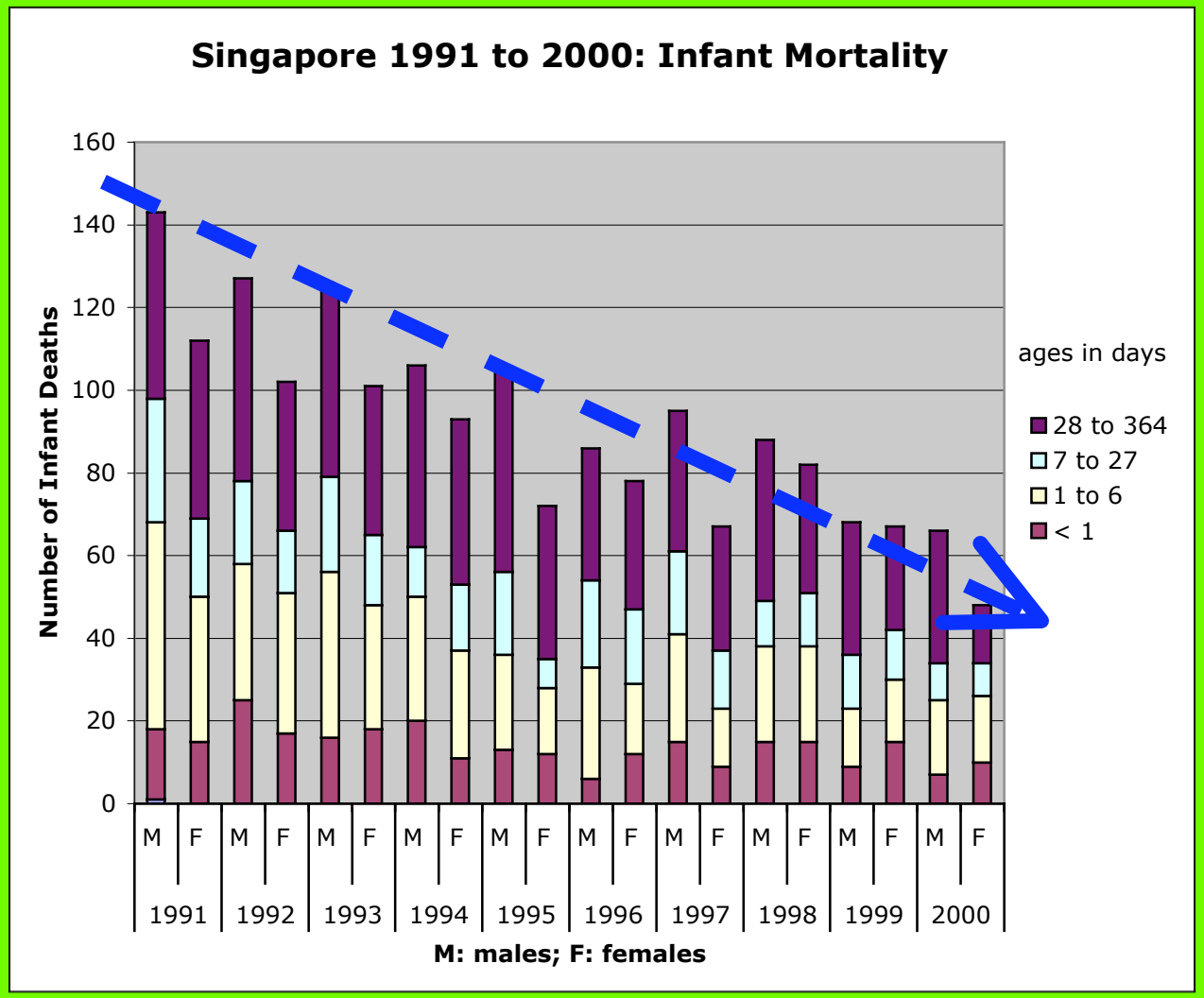


Years after birth >

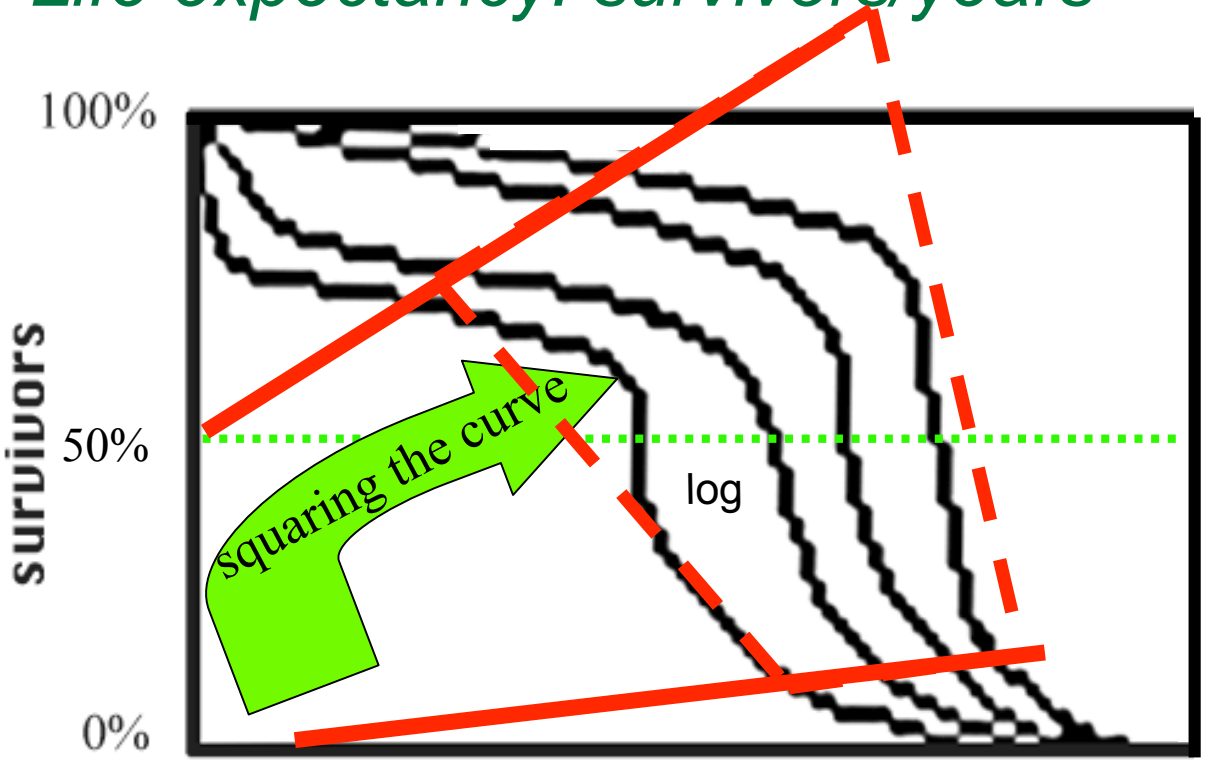
life expectancy at birth 24 42 47 75

in 1754 1850 1900 1988

I. Extending Life



Life expectancy: survivors/years



Years after birth >

life expectancy at birth 24 42 47 75

in 1754 1850 1900 1988

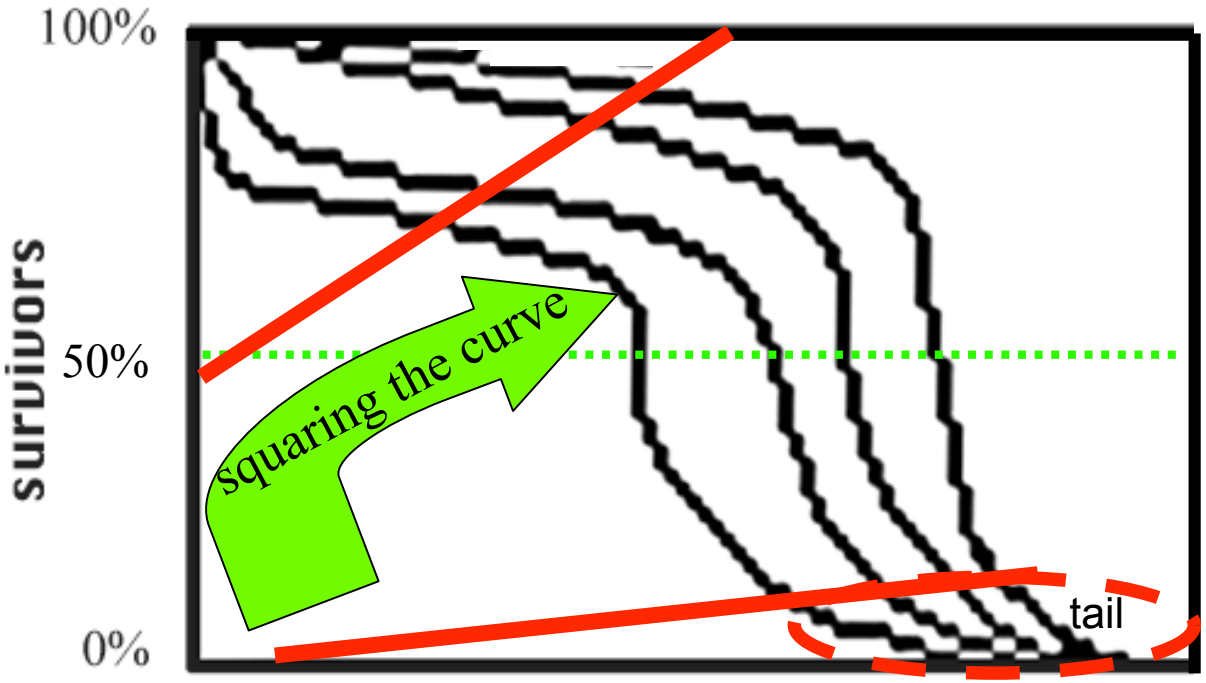
I. Extending Life

	Life expectancy at birth in 2000	***Life expectancy at birth in 2100*** if increase continues at present rate	***Life expectancy at birth in 2200*** if major killer diseases cured or prevented
White women	80	102	117
Black women	75	97	112
White men	75	97	112
Black men	68	90	105

- "The centenarian population grew by 160 percent in the U.S. during the 1980s. Many demographers predict that 20 million to 40 million people will be aged 85 or older in the year 2040, and 500,000 to four million will be centenarians in 2050."

- Perls, Thomas T., 1995, The oldest old: People in their late nineties or older are often healthier and more robust than those 20 years younger. Traditional views of aging may need rethinking. *Scientific American,* January 1995:70-5, p. 70.

Life expectancy: survivors/years

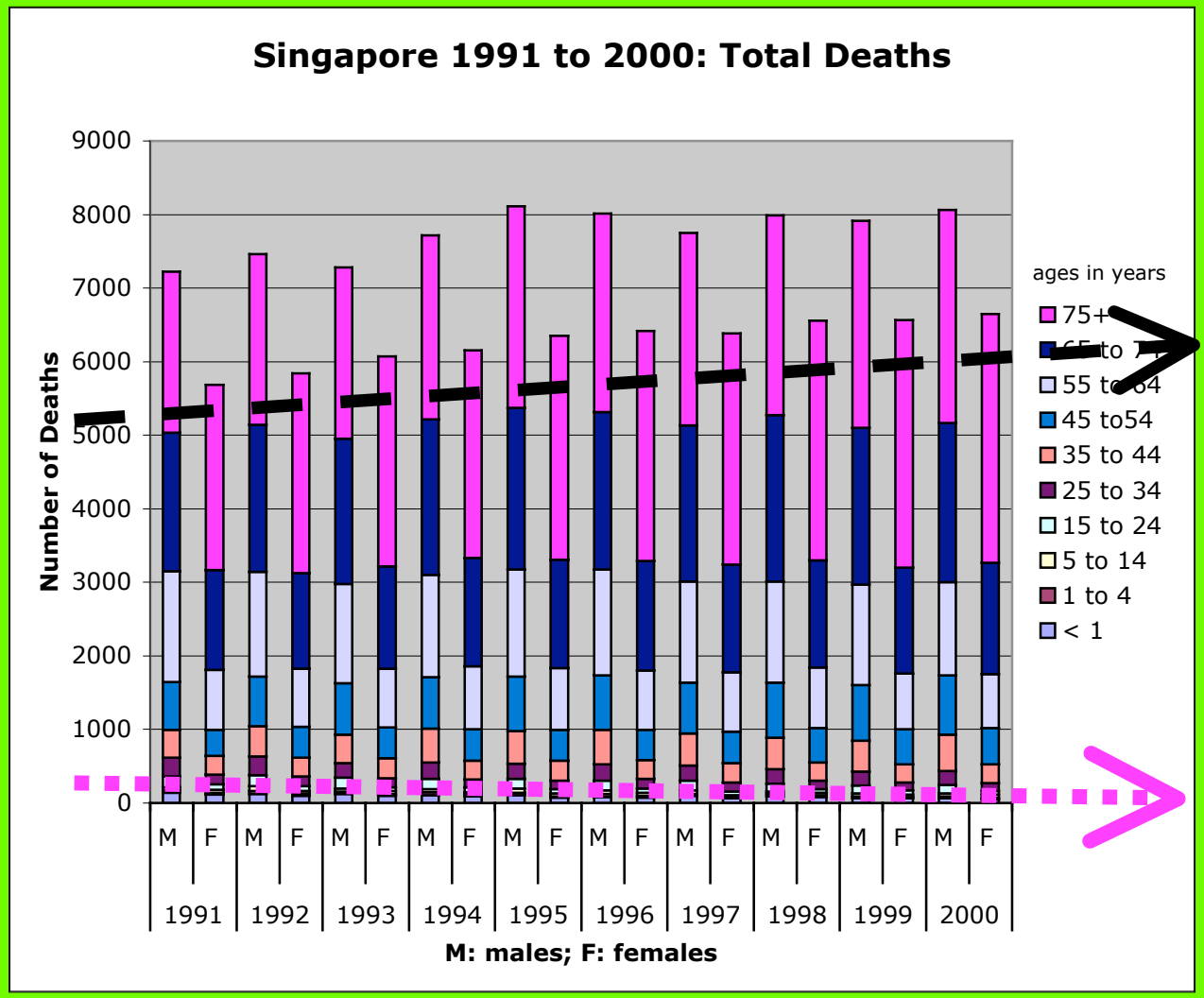


Years after birth >

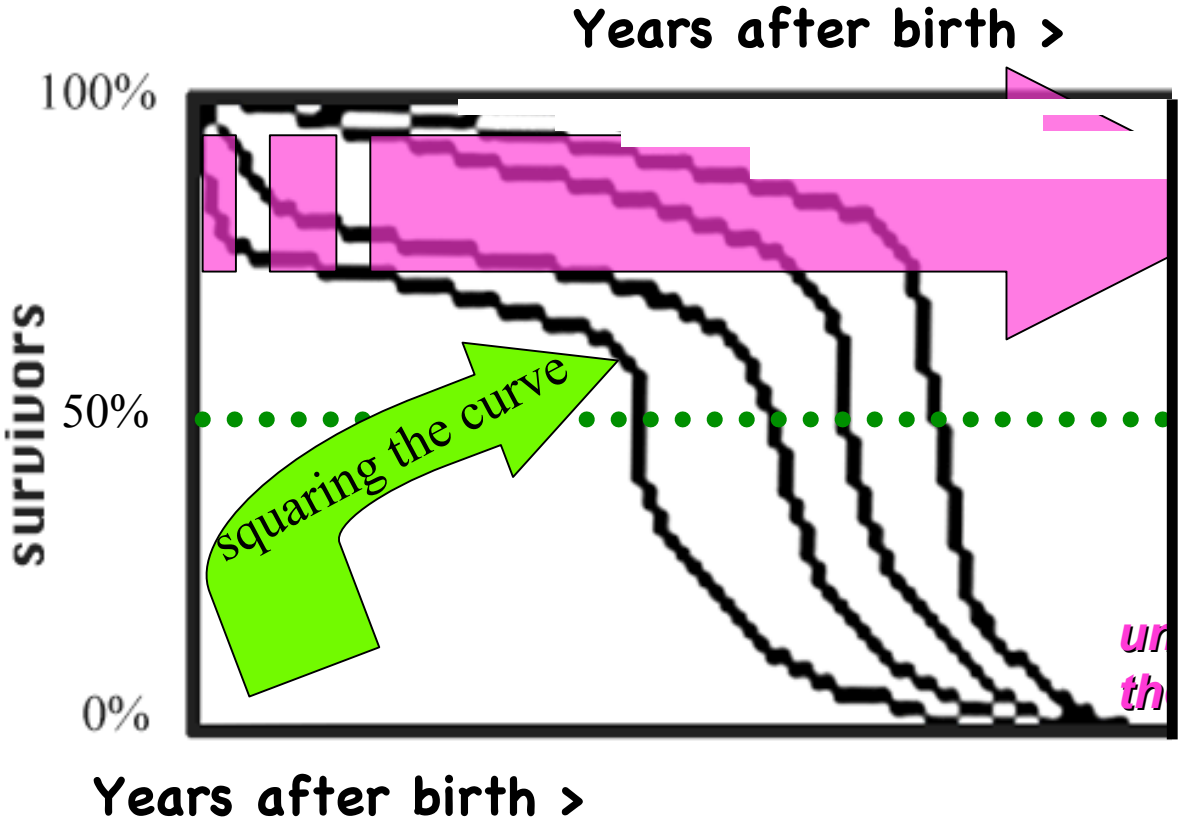
life expectancy at birth	24	42	47	75
in	1754	1850	1900	1988

92

I. Extending Life



Life expectancy: survivors/years



life expectancy at birth

	24	42	47	75
in	1754	1850	1900	1988

2nd Internatational Arakawa + Gins Conference

Two ways of Extending Life

1) The way things are

2) Biotopology: the study of "rearrangements and transformation … [of] waxing and waning … in all scales of action that contribute to the formation of an architectural body."

II. Extending Life

niche-construction: "the activities of organisms [that] bring about changes in their environments."[1]

how a species´ activity feeds back on the species´ environment and hence on its evolution.

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[1] Laland, K. N., J. Odling-Smee, and M. W. Feldman, Causing a commotion: Niche construction. *Nature* 429:609; June 10, 2004, 609.

II. Extending Life

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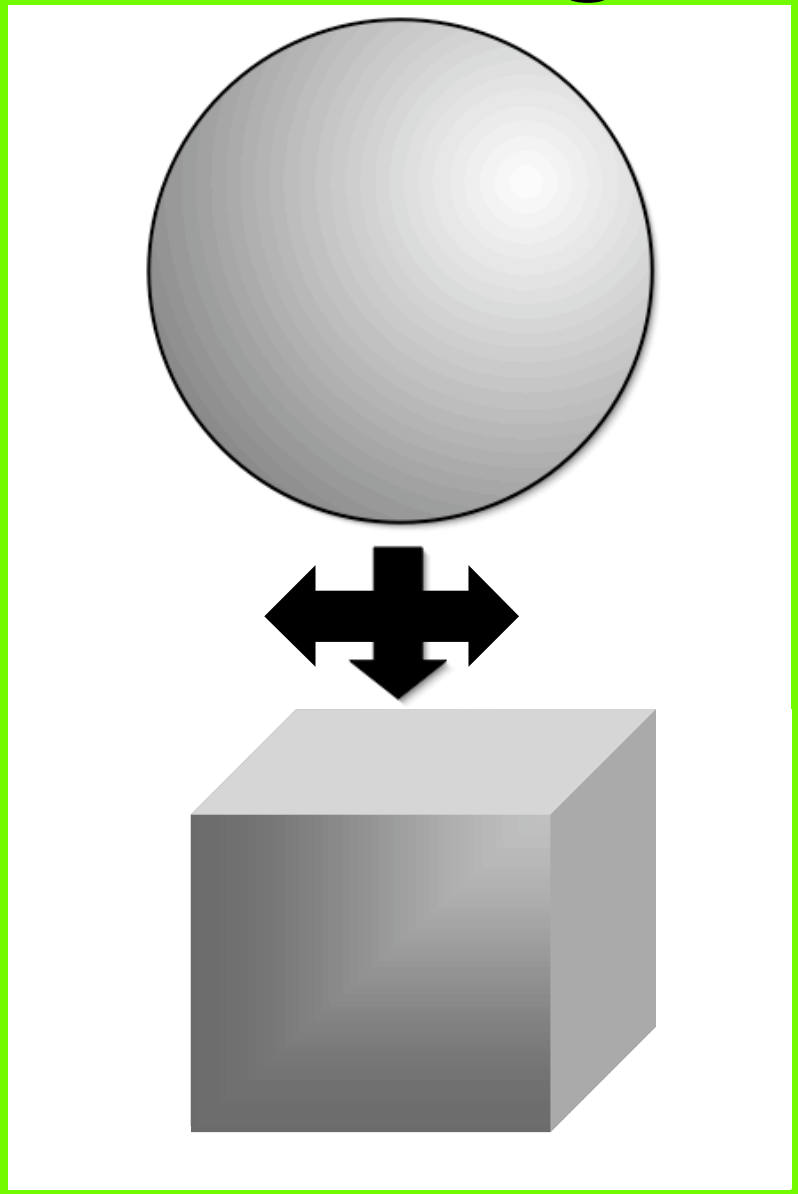
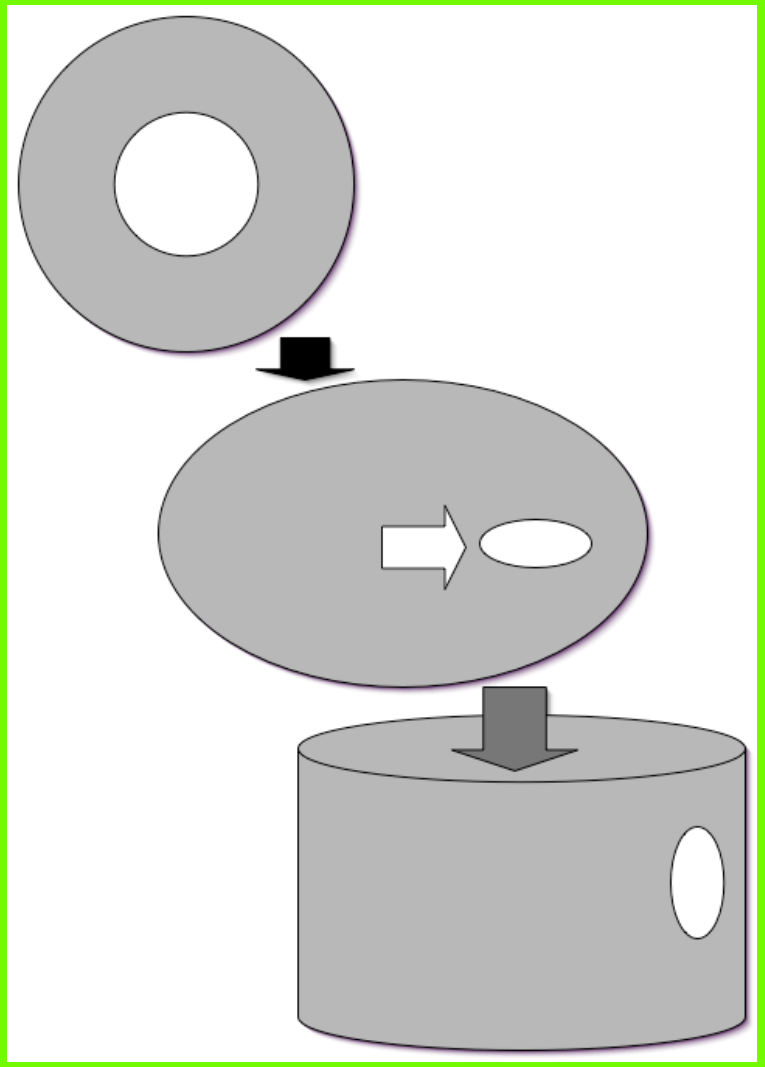



www.reversibledestiny.org

II. Extending Life



The Biotopology of Extending Life

Toward Reversible Destiny

By Stanley Shostak