

Charles Scamahorn's Evolution Scale



EVOS A scale for measuring the evolution of information.

^ This scale was created by

^ A standardized name of this new scale.

< Symbol ^ Acronym ^ A short description of this scale. - 2006/04/13

/PROBAYAW/MetaScales/Evolution/Evolution.cdr

In publications please acknowledge that this scale is based on the Meta Scale System template for scaling complex phenomena developed from Proba # 30 by Charles Scamahorn probaway@gmail.com www.probaway.com

Labeled arabic numeral	Scalable graphic symbol	Popular Group and Action term	Definable unique name	Arithmetic and logarithmic measures	Typical things used for the descriptions	Description of typical conditions at the beginning of the process	Reasons for the processes to proceed as they do	Reactions which are developing during the processes	Description of the typical conditions at the end of the processes	Problems and limitations on this level of scale.
EVOS-0		Big Bang	Bigbee	Dimensionless	Vacuum squared	Before the big bang there is no testable speculation of conditions at present.	Preferential survival and reproduction by coevolution of matter by reaching balanced matter-energy states	Presently beyond reach of the highest energy nuclear experiments.	Speculation beyond the intelligence available from current testable lab research but Big Bang.	This transition to existence is untestable and nonscientific.
EVOS-1		Inflation of plasma	Inplas	Development of scale	Subatomic plasma / transfer of strings	In the first three seconds there is a very intense interaction of time, space, matter and energy.	Preferential survival and reproduction by coevolution of plasma while reaching stable lower energy states.	Various reactions within the nucleus of atoms on a universal scale.	Extremely energetic plasma processes which after they expanded permitted solid matter to form.	Experiments have not worked out all details and problems.
EVOS-2		Stellar Evolution	Stevevo	All scales	Atoms / transfer of electrons etc.	Hydrogen gas has formed and cooled and gravity is pulling it together into diffuse clumps and stars.	Preferential survival and reproduction by coevolution of atoms by reaching stable lower energy states.	Balancing of materials taking place in the reactions within atoms.	Stellar processes created complex nuclei which, with their other stuff, contracted into metallic stars, planets.	Hydrogen clumps become wildly complex given time.
EVOS-3		Crystal Fitting	Cryfit	Atomic to meter	Crystals and molecules / physical contact	There are multitudes of scattered pockets of various compositions of mud.	Preferential survival and reproduction by coevolution of new materials by adaptive fitting and splitting off.	Natural crystals form and from contact with them various printed templates peel off and twist.	New and unusual forms of materials have formed; some are carbon based and these tend to be complex.	The jump from crystals to replicating life needs details.
EVOS-4		Natural Selection	Natsel	Micrometer	Single-cell life / warning chemicals	Living things eating, reproducing, surviving and dying in their environmental niches.	Preferential survival and thus reproduction of the species members best fitted to their local environment.	The species use special structures for eating, approaching, retreating, for food and safety.	Later generations of the surviving individuals living more abundantly in the preexisting niches.	Most humans are afraid of the idea that they came from apes.
EVOS-5		Sexual Selection	Sexsel	Millimeter to decameter	Multi-cellular life / warning calls and signals	The species are well adapted to their local conditions with sexual dimorphism.	Preferential reproduction of fittest males by the females selecting the strong healthy males.	Males are competing for food by chasing males away; for acceptance of females by combats with males.	The species quickly adapted to the vagaries of the local environment and to their social needs.	Males chase and females choose but environment has final say.
EVOS-6		Verbal Selection	Verbsel	Meter	Dawn-human life / 2 word sentences	Men displaying virtues as in strength, boldness, hunting, sociability, talking, singing.	Preferential reproduction of the fittest men by the women verbally analyzing and defining the best men.	People have enough speech to permit local myths based on local conditions as a basis for choice.	Men displayed prowess as in talking, music, art hunting, possessions, and adapting to conventions.	Women seem to be arbitrary and fickle in their choices of mates.
EVOS-7		Verbal Culture	Verbcul	Kilometer	Spoken information / syntactical sentences	Ideas have been available for verbal refinement for 100K years which have come down as myths to cultures.	Preferential survival and reproduction of the ideas most fitted to the local human environment.	Special conditions of a local environment will require creation of adaptive information.	Information base for local conditions has grown to a limit of the group's ability to remember and transmit it.	After info has gone through a few cycles it is corrupted.
EVOS-8		Artificial Selection	Artsel	Micrometer to decameter	Domestic crops and livestock / Myths	Primitive farming where people are taking wild things and replanting them. Later replanting the best.	Preferential reproduction of fittest species by the breeders verbally identifying and selecting the best.	Local myths will develop based on local conditions and species and varieties will be propagated.	Farmers attended competitions for breeding biggest, strongest, tastiest, fastest growing plants and animals.	Nostalgia for a remembered past clouds improvements.
EVOS-9		Printed Culture	Pricul	Megameter	Written information / sacred texts	Writing has permitted ideas to be moved accurately thru time, space and cultures to foster testable knowledge.	Preferential survival and republication of the ideas most fitted to the literate human environment.	Retrieving information from remote time and space permits rapid social adaptation.	Information is quite good as it can be compared and corrected on a worldwide base and through millennia.	Moving info from one culture to another loses a working context.
EVOS-10		Gene Selection	Genesel	Micrometer	Domestic genes / published proofs	10,000 years of artificial selection brought a wide variety of foods and other things to our markets.	Preferential reproduction of fittest species by the genetic engineers modifying genes to preselected goals	Local conditions will require special varieties; these will be requested and genetically designed.	Research labs competing to breed biggest, tastiest, fastest growing, resistant, plants and animals.	Some science gone bad makes many fearful of all change.
EVOS-11		Species Creation	Speecre	Nanometer	Laboratory made life / creating information	Laboratories have created new sub-species and are developing new species to control disease and life.	Preferential reproduction of genes to preselected requirements to create new species to fit new needs.	Special conditions will require creation of original organisms to fulfill these needs.	Research labs competing to create never-before-seen living things to do never-before-seen actions	Ownership of genetic species drives innovation and new fears.
EVOS-12		Wikipedia Culture	Wikicul	Gigameter	Artificial life / Electronic information	Wiki permitted the growth of a knowledge base founded on the shared and critiqued experience of all humans.	Preferential juried survival and availability of the ideas most fitted to the universal human environment.	Creation of specific and quickly retrievable information gives rapid answers to most questions.	Information is accurate and available for destructive as well as creative ends. Some protections have been used.	Instant access to good info needs enforced responsibility.
EVOS-13		Stellar Culture	Stelcul	Terameter	Interstellar communication / generating meta-life	Our knowledge has been transmitted out from Earth at the speed of light which permits greater knowledge.	Preferential survival and reproduction of the metatools most fitted to the galactic environment.	Vast numbers of alternate situations and adaptations are available to permit experience-based solutions.	Our experience has been shared with other life forms and is used to improve their lives. We await contact.	Interstellar communication doesn't include responsibility.
EVOS-14		Federation Culture	Fedcul	Universal	Intergalactic communication / slow meta-wisdom.	Universal Wisdom is already developing, but it is a very slow process even in a geological time frame.	Preferential survival and reproduction of the metatools most fitted to the universal environment.	Nearly infinite knowledge and experience gives near perfect answers to complex problems.	With Fedcul there has been enough information and experience to permit the maximization of life force.	Universal wisdom still leaves unanswerable questions.