Science may be viewed as the art of data compression (binary sequences). By compression we don't mean syntactic compression only able to compress a sequence up to the limit of Shannon where it becomes normal in the sense of Borel. Semantic compression goes beyond the limit of Shannon the Occam's razor principle privileges the shortest program that halts and prints the sequence in question. SBTM is the most compact program. It is shown that regular sequences are printed first before random ones.

We have run all 8^4=4096 two-state machines then all 12^6= three-state machines then all 16^8= four-state machines but only the first (out of the 20^10=existing five-state machines. Only the elegant machines are retained : those that halt printing a sequence not printed before.