

Fractal intelligence development  
The David Star Model  
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Jean Piaget, and Edward de Bono made some observations regarding repetition of some structural patterns regarding dominatory behavior, and group relationships in cooperating environments. Piaget noticed the repetition of a three positions pattern (dominatory, dominated, pacifist), de Bono, noticed the repetition of a six positions pattern (six thinking hats).

These observations lead to a fractal development in structural niches model, that can explain both directions of diferentiating aptitudes, and dynamics of intelligence development (see fig 1).

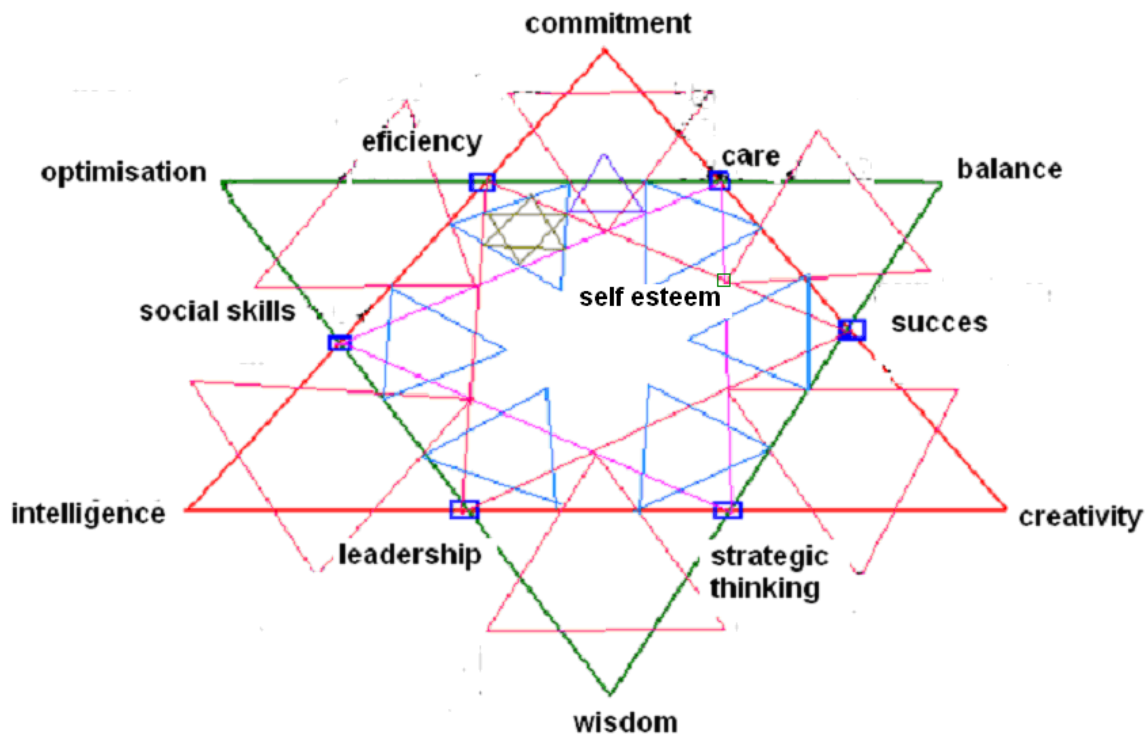


fig 1 fractal intelligence model

Fractal intelligence is developed by interference of two sets of characteristics, one coresponding to the social characteristics of humans (commitment, intelligence, creativity), and the other one by the natural characteristics of humans (wisdom, balance,

optimisation). The interference among these characteristics will generate other characteristics, for example intelligence and wisdom will generate leadership capacities. The second set of characteristics will be able to recuperate the primary characteristics, for example leadership and strategic thinking will generate wisdom. The opposite characteristics will generate dimensions. For example *wisdom-commitment* will generate the “**to do dimension**”, *intelligence-balance* “**to be dimension**”, *creativity-optimisation* “**to have dimension**”. The second set of opposite characteristics will generate different dimensions: *social skills-success* “**to become dimension**”, *leadership-care* “**to protect dimension**”, and *efficiency-strategic thinking* “**to succeed dimension**”

The main generating model will generate other new characteristics that can be described by smaller David stars models. Those new characteristics will correspond to new structuring dimensions. For example *care and success* will not generate only balance, but also self esteem, creating a new psychic dimension “**harmony dimension**”.

The model is not deterministic, giving a big degree of individual and cultural freedom, but is self sustainable for each people’s logic. There are various degrees of cultural and individual specificities, that describe both cultural dimensions of thinking, and individual abilities adapted for various social, and economical niches.

This fractal intelligence model permits to understand unity in variability for human differentiation, giftedness, evolution, and adaptation in structuring the individual set of dimensions and values.

We can therefore understand why and how students in a classroom will differentiate the own characteristics, and why there are stable roles into the class economy of communication (for example, the leader, the clown, the dumb, etc.). We can also understand why there are not two students to compete for the same position, each one developing slightly different personal reactions, and skills in the same learning environment. All these facts are due to only one fact: the normal tendency for a group of people to

structure as shown in the David Star model, and to extend the generating model for new characteristics into smaller David Stars in a fractal way. That characteristics explain why a big group of people can be lead, why they obey to the same rules or customs, and why there are differenties between the David Star dimensions of a nation's leader, and the David Star dimensions of a simple family man.