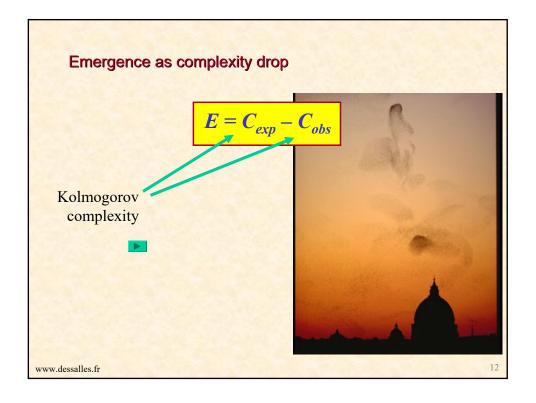
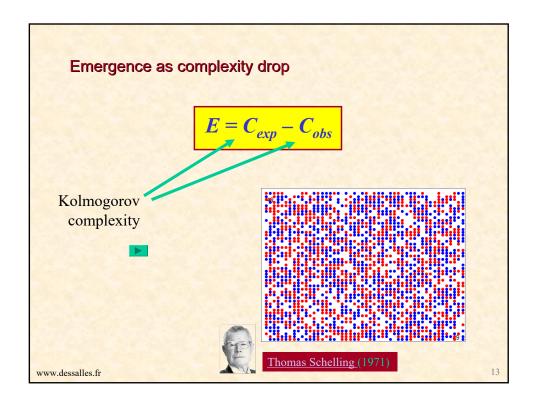


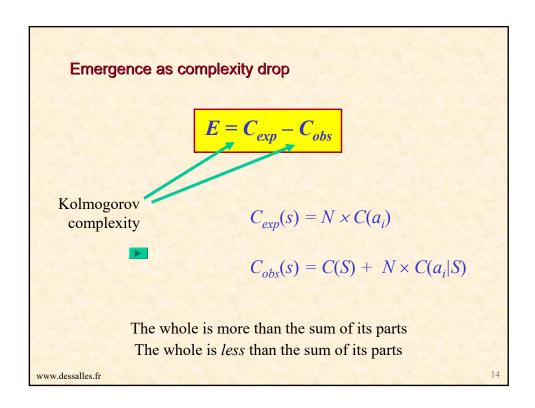


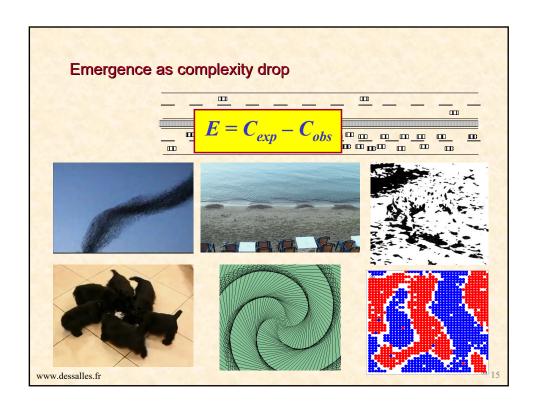
## Which sentence characterizes "emergence" best? A. The whole is less than the sum of its parts B. The whole is more than the sum of its parts

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## Emergence as complexity drop

$$E = C_{exp} - C_{obs}$$

$$C_{exp}(s) = \Sigma_j C(d_j) + C(s|\{d_i\})$$

$$C_{obs} = C(D) + \sum_{j} C(d_{j}|D) + C(s|D \& \{d_{i}\})$$

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