

# Modularity (glossary)

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modularity

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(1) *Degree to which a system or computer program is composed of discrete components such that a change to one component has minimal impact on other components. (ISO/IEC 2011)*

(2) Software attributes that provide a structure of highly independent components. *(ISO/IEC/IEEE 2010)*

(3) In a resilience context modularity is a system resilience principle that states that the functionality of a system should be distributed through various nodes of that system so that if a single node is damaged or destroyed, the remaining nodes will continue to function. Jackson (2016) Modularity is a component principle in the tolerance attribute grouping. Jackson (2016)

## Sources

(1) ISO/IEC. 2011. *Systems and software engineering - Systems and software Quality Requirements and Evaluation (SQuaRE) - System and software quality models*. Geneva, Switzerland: International Organization for Standardization (ISO)/International Electrotechnical Commission (IEC). ISO/ISO 25010:2011.

(2) ISO/IEC/IEEE. 2009. *Systems and Software Engineering - System and Software Engineering Vocabulary (SEVocab)*. Geneva, Switzerland: International Organization for Standardization (ISO)/International Electrotechnical Commission (IEC)/Institute of Electrical and Electronics Engineers (IEEE). ISO/IEC/IEEE 24765:2009.

(3) Jackson, Scott. 2016. "Principles for Resilient Design - A Guide for Understanding and Implementation." In

IRGC Resource Guide on Resilience, edited by I. Linkov.  
University of Lausanne, Switzerland: International Risk  
Governance Council (IRGC).

## **Discussion**

also called localized capacity

**SEBoK v. 2.10, released 06 May 2024**

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