

# FURPS

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**FURPS** is an acronym representing a model for classifying software quality attributes (functional and non-functional requirements):

- **Functionality** - Feature set, Capabilities, Generality, Security
- **Usability** - Human factors, Aesthetics, Consistency, Documentation
- **Reliability** - Frequency/severity of failure, Recoverability, Predictability, Accuracy, Mean time to failure
- **Performance** - Speed, Efficiency, Resource consumption, Throughput, Response time
- **Supportability** - Testability, Extensibility, Adaptability, Maintainability, Compatibility, Configurability, Serviceability, Installability, Localizability, Portability

The model, developed at Hewlett-Packard, was first publicly elaborated by Grady and Caswell. *FURPS+* is now widely used in the software industry. The + was later added to the model after various campaigns at HP to extend the acronym to emphasize various attributes.

## Further reading

- Watson, Mike (2006). *Managing Smaller Projects: A Practical Approach*. Multi-Media Publications Inc. pp. 117 ff. ISBN 978-1-895186-85-7.
- Kenett, Ron; Baker, Emanuel (1999). *Software Process Quality: Management and Control*. CRC Press. pp. 130 ff. ISBN 978-0-8247-1733-9.
- Grady, Robert; Caswell, Deborah (1987). *Software Metrics: Establishing a Company-wide Program*. Prentice Hall. p. 159. ISBN 0-13-821844-7.
- Grady, Robert (1992). *Practical Software Metrics for Project Management and Process Improvement*. Prentice Hall. p. 32. ISBN 0-13-821844-7.

## External links

- IBM on Furps+ <sup>[1]</sup>

## References

[1] <http://www.ibm.com/developerworks/rational/library/4706.html#N100A7>

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# Article Sources and Contributors

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