



Features and Products

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[What is a feature?]

- Literature defines a feature in different ways

“an identifiable functional abstraction that must be implemented, tested, delivered, and maintained.”

Kang, 1998

“an increment of program functionality.”

Batory, 2005

[Book Definition of Feature]

- A feature is a characteristic or end-user behaviour of a software system
- Features are the concerns of primary interest in product line engineering
 - They are used to specify **commonalities** and **variabilities** (differences)

[Product and Feature Selection]

- A specific product is identified by a subset of features (feature selection)
 - *Feature selection* is also called *product configuration*
- Not all feature selections are valid
 - A constraint on the feature selection is called a *feature dependency*
 - In a feature model, feature dependencies are also called *cross-tree constraints*

[Bibliography]

- S. Apel, D. Batory, C. Kastner, G. Saake. **Feature-Oriented Software Product Lines: Concepts and Implementation**. Springer; 2013.
 - Section 2.1