

Changes types in the taxonomy

Taxonomy Type	Macro Category	Description
Textual	Evolvability	Textual changes occur when there are problems related to information obtainable while reading the code. The most common examples are mistakes in variable names or documentation updates.
Supported by Language	Evolvability	Supported by Language changes are related to programming language features used to convey information, e.g., the use of final or static in Java. This kind of defects does not produce error in run-time execution.
Visual Representation	Evolvability	Visual Representation changes occur when the code does not respect the code formatting style of the project.
Organization	Evolvability	Organization changes occur when the structure of the code is changed. Typically, these changes remove unused part of code or move a functionality in a different module or class.
Solution Approach	Evolvability	Solution Approach changes involve modifications to the way in which a solution is implemented. For instance, to remove magic numbers in favour of predefined constants.
Resource	Functional	Resource changes are related to data handling. They typically occur when wrong data management is performed.
Check	Functional	Check changes typically occur when the run-time execution is affected by a not handled state. The need to address unchecked variables or functions is a common reason behind this kind of changes.
Interface	Functional	Interface changes concerns the interaction with other parts of the software: e.g., mistakes in function calls.
Logic	Functional	Logic changes impact the logic of the program. For instance, they might occur when there is a bug in the flow of execution or when an algorithm produces incorrect results.
Support	Functional	Support changes usually occur when there are problems in the development system. Configuration files, wrong data or environment inconsistency are usually the cause behind this kind of changes.
Larger Defects	Functional	Larger Defects changes occur when complete parts of code are missing, code outside the code under review needs to be checked or there is a bug in the User Interface.