# Code Smells

## Code Smell #10- Switch Statements

Found: @SE2122\_55677\_56773\_\_56971\_57066\_58655/src/main/java/org/jabref/model/entry /BibEntry.java

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Descrição gerada automaticamente

Uma imagem com texto

Descrição gerada automaticamente

### Uma imagem com texto Descrição gerada automaticamente

This method has too many ifs, not only some of this ifs also have a very complex set of conditions that must be verified, there is also a lot of duplicated ifs and some these are all the possible combinations between the involving enumerator types. This makes code feel and look very bloated, hard to read and follow and it and adds a lot of complexity to the operation.

### Proposed Solution:

To fix this first I would evaluate if every single if is necessary, because some of this ifs return the exact same value. There is also a lot of duplicated ifs, so those should probably be moved to its own method, same could probably be applied to the ifs that have all the possible combinations between enumerator types. A case could also be made to replace these conditions with polymorphism, but I'm not sure on how viable this solution would be.

## Code Smell #11- Duplicated Code

### Found:

@SE2122\_55677\_56773\_\_56971\_57066\_58655/src/main/java/org/jabref/model/entry/identified/DOI.java



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These two methods are practically identical and return the same information

### Proposed Solution:

To fix this I believe the simplest solution is to remove one of these methods.

## Code Smell #12- String literals should not be duplicated

### Found:

@SE2122\_55677\_56773\_\_56971\_57066\_58655/src/main/java/org/jabref/model/openoffice/ootext/OOTextIntoOO.java





As we can see, in the areas highlighted in yellow, we have a lot of occurrences where we use string literals instead of the already appropriated defined constants, duplicating this string literals.

This makes the process of refactoring error-prone, since we must be sure to update all occurrences. Making constants a much more appealing solution since they can be referenced in many places and only need to be updated in a single place, when we refactor something.

### Proposed Solution:

I recommend we change all the occurrences highlighted in yellow to the appropriate constants, like so:



