**SUBJECT:** Object-oriented programming

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**CHAPTER:** 3

COMMENTS

This chapter teaches us that there is nothing more harmful than an old comment that spreads lies and misinformation

The book does not say that the use of comments compensates for our inability to express ourselves in the code, the comments are always flaws, we must use them because we do not always know how to express ourselves without them, when the code advances it evolves over time, the comments do not always follow rhythm can't always do it and they often break away from the code they describe and become orphans without any precision

The comments do not compensate for the wrong code instead of wasting time writing comments that explain the disaster committed, we will have to dedicate ourselves to solving it to better develop the code but there are times when comments are needed when it comes to quality comments, these may be some types such as:

**Legal comments**

They are necessary to indicate copyright and should be included at the beginning of each file as well as informative comments. Comments are usually useful to give some type of information, but it is much better to use the function name to transmit the information.

Sometimes they are very useful to warn other programmers of certain consequences that exist in the code, one of the most useful and most important is the Javadoc in the standard Java library API, it would be very difficult to create java programs without them.

There are also different types of comments that are

**the unnecessary ones in the code**

what it's like to babble what are add comment for no reason

redundant comments explaining the same thing clearly seen in the code those comments only mess and obscure the code have no documentary function

leftover comments those that downplay the obvious and do not offer any new information those comments are so useless that we learn to ignore them, when reading the code the view jumps them

No comment to use if you can use a function or a variable

The commented codes are the most hateful, these should not be done for any reason

Comments in function headers are not necessary as a well chosen name is usually better than a comment header

In assignments and mentions, you can think that these comments are useful and that they help others to talk about the code, but in reality they survive for years and are becoming less precise and relevant. The source code control system is the ideal point for this kind of information

historical comments or irrelevant descriptions of details should not be included in comments

sometimes programmers mark a certain position as a comment in a file for example, there are few occasions when it makes sense to group functions under this structure, generally it should be removed

html comments in source code comments is an aberration, makes it difficult to read comments where it should be easier

If the comments are going to be extracted with a tool like javadoc to display them on a web page, it should be the responsibility of that tool and not the programmer to decorate the comments with the corresponding html

javadoc may also be unnecessary are redundant comments created in wrong attempt to write documentation