

# corollary

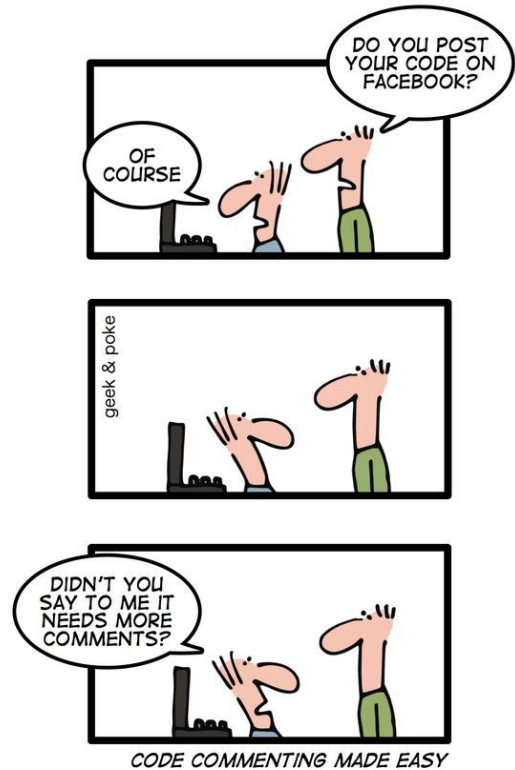
a Java documentation and  
verification tool



# Motivation

Many people have trouble writing good comments

- Lombok Project: good, but not quite right
- Javadocs: needs verification

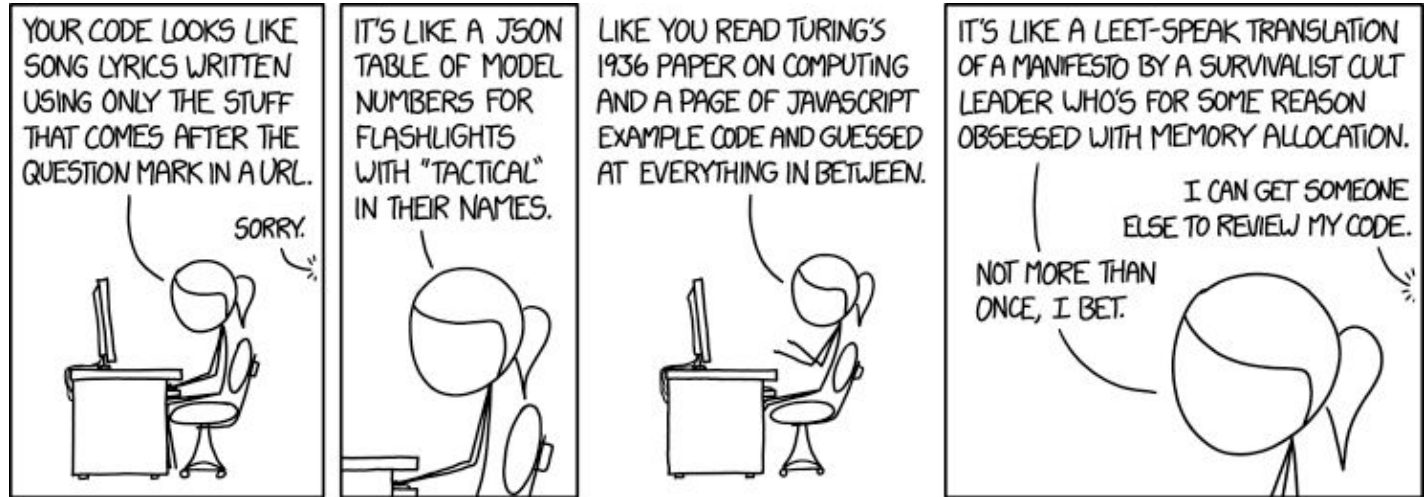


# Corollary

A tool that:

Helps understand the functionality of a piece of code

Verifies that a method keeps its invariants and conditions



# Example

```
/**
 * Combines the two dictionaries and returns the result.
 * @param dict1 the first dictionary
 * @param dict2 the second dictionary
 * @return combination of the two dictionaries
NEW * @precondition dict1 is not null, dict2 is not null
NEW * @invariant dict1 is immutable, dict2 is immutable
 */
public Set<String> combineDictionaries(Set<String> dict1, Set<String> dict2) {
    for (String word : dict2) {
        dict1.add(word); // Output - InvariantException: dict1 is immutable
    }
    return dict1;
}
```