# Fotoshop Improvements

## Editor.java

* Moved four separate filter fields into an array list ‘filters’. This greatly improves extendibility and maintainability by making the list of filters enumerable, enabling the use of loops to perform operations. Also means that new filters can just be appended onto the ArrayList, instead of manually hard-coded as new fields.
* Compressed staircase of if statements into a for loop, operating on the ArrayList of filters.
* processCommand() changed to use reflection instead of many if/elseif to determine if a command is correct.
* Refactored to remove image-specific commands and create a general image class to hold any image specific data (filters, name, etc) as a precursor to the work to allow an image buffer/undo function, as well as improving overall program structure.

## Parser.java

* Moved individually-declared string fields (for each word) into an ArrayList ‘words’. This makes the application more extendable If the stakeholders wanted to add additional words for each command.

## Command.java

* Moved command words from individually-declared strings to an ArrayList of strings. Words can now be accessed using their index within the array. This greatly increases maintainability and extendibility as more command words can be added if desired – without the need to add additional fields, getters or null checks.
* Condensed the duplicated getters and null checking methods into one function each, both accepting array an index parameter.