

# Vim as the poor man's sed

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 [brianstorti.com/vim-as-the-poor-mans-sed](http://brianstorti.com/vim-as-the-poor-mans-sed)

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Not long ago I [wrote](#) about [sed](#), a powerful non-interactive editor that can be used to edit multiple files in a fairly easy way. Today I want to show how we could use [vim](#)'s not so well known [ex](#) mode to do some of these same tasks, and what are the benefits and shortcomings.

## The [ex](#) mode

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The [ex](#) mode is very similar to the [command](#) mode: It allows you to enter [ex](#) commands. The main difference is that you won't be back to [normal](#) mode after the command is executed. You can enter the [ex](#) mode with [Q](#), and go back to [normal](#) mode with [:visual](#).

It's a mode designed for batch processing, and we can start [vim](#) with [-e](#), if that's all we need.

## The usage

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The usage is very similar to what we did with [sed](#). We just need to give it a file path and a set of commands to be executed:

```
$ echo "foo bar baz" > testing-ex.txt
$ vim -e testing-ex.txt <<-SCRIPT
%s/foo/new-value
W
SCRIPT
```

The same way, you could just pipe the result of an [echo](#) to vim:

# Note that, in vim, [|](#) is used to execute multiple commands at once:

```
$ echo "%s/foo/new-value/ | w" | vim -e testing-ex.txt
```

Or we could just move this script to its own file, and then execute the command as:

```
$ vim -e testing-ex.txt < command.vim
```

This script is just a bunch of [vim](#) commands, the same commands you would execute if you were editing this file by hand. The only caveat is to remember that you need to save the file ([w](#)) in the end.

For comparison, the equivalent [sed](#) command would be something like this:

```
$ sed -i'' -f command.sed testing-ex.txt
```

## The benefit

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The benefit is that it's just **vim**, and you probably already know the commands to edit a file. If you have a map to do some kind of editing, you are all set, just execute these commands in **ex** mode. What if you want to join all the lines? Just execute **%join**, as you would if you were editing a single file.

| Check `:help ex-cmd-index` for the list of all the ex commands available

## The shortcomings

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I know you thought about that as soon as you read the title of this post: Performance. And yes, you are right, **Vim** won't be that fast if you need to edit a lot of files. Let's measure that by running the same script that substitutes a string in 10.000 files:

```
# Creates 10.000 files to test
$ for i in {1..1000}; do echo "test" > $i.txt; done

$ time for i in {1..1000}; do echo "%s/test/new-value/g | w" | vim -e $i.txt; done
# Executes in 22.13s

$ time for i in {1..1000}; do sed -i'' -e 's/test/new-value/g' $i.txt; done
# Executes in 3.12s
```

In this simple test, **sed** is about 8x faster.

## Conclusion

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There is some overlap in what you can do with **sed** and with **vim** in **ex** mode. There is no right or wrong, they are just options, and, as always, it's important to know the trade offs and when it's worth to use one option over another.

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