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1 Word-based diffs for org-mode

<http://homepages.inf.ed.ac.uk/imurray2/compnotes/cwdiff/>

When we write manuscripts we often want or need to see how one version differs from another. latexdiff is pretty good for this, and we look at a nice way to see how to use it when your org-file is in git. This file is in git.

```
1 git hist
```

```
* 4ff3b06 Wed Jan 6 13:32:32 2016 | initial commit (HEAD -> master) [John Kitchin]
```

You can see above, at the time I ran the command there was one commit. As we develop the manuscript, we periodically export the result to see how it looks. At some point, all the changes should be committed *including the tex file*. We will use the different versions of the org and tex files to generate latexdiffs.

1.1 Generating diffs

Supposing you have a commit that represents some interesting point in the past, e.g. a submitted version, or the last edits made by a collaborator, here is how we generate a diff of the changes between the current version and that version.

First, check out your history. We will compare the current version to the commit 6f9a77a.

```
1 git hist
```

```
* 6f9a77a Wed Jan 6 13:37:03 2016 | successful build. we will compare to this version
* 26fdf5c Wed Jan 6 13:34:20 2016 | new files added, tex and pdf [John Kitchin]
* 4ff3b06 Wed Jan 6 13:32:32 2016 | initial commit [John Kitchin]
```

```
1 git diff --color-words --word-diff=plain 6f9a77a -- latex-diff-org.org
```

1.2 Generating the latexdiff

```
1 latexdiff <(git show 6f9a77a:latex-diff-org.tex) latex-diff-org.tex > diff.tex
```
