

```
## index
```

```
# commit in flight  
# break a change into logical commits  
# exclude a whole file or a *part* of it
```

```
# show not added to index  
$ git difftool
```

```
# show added to index  
$ git difftool --staged|--cached
```

```
# show both, not added and added to index  
$ git difftool head
```

```
#                                     working dir  
# HEAD|                               git diff head |  
# ---o-----staged-----unstaged  
#      | git diff --staged | git diff |  
#
```

```
## reset
```

```
#                               topic
#   ---o---A-----B
#                               working dir
```

```
$ git reset --hard head~
```

```
#                               topic
#   ---o---A-----B
#                               working dir
```

```
# B is unstaged
```

```
$ git reset [--mixed] head~
```

```
#                               topic
#   ---o---A-----B (unstaged)
#                               working dir
```

```
# B is staged
```

```
$ git reset --soft head~
```

```
#                               topic
#   ---o---A-----B (staged)
#                               working dir
```

#		move	change	working
#		branch	index	dir
#	soft	Y		
#	mixed	Y	Y	
#	hard	Y	Y	Y