

```
git diff a.txt
```

直接输入 `git diff` 行为: 如果 文件修改后被添加入暂存区, 则 `git diff` 是 工作区文件和 暂存区文件比对, 如果无暂存区修改, 则是 工作区文件和版本区文件比对

diff里面a表示前面那个变量, b表示第二个变量

HEAD commit版本

Index staged版本

a、查看尚未暂存的文件更新了哪些部分, 不加参数直接输入

```
git diff
```

此命令比较的是工作目录(Working tree)和暂存区域快照(index)之间的差异
也就是修改之后还没有暂存起来的变化内容。

b、查看已经暂存起来的文件(staged)和上次提交时的快照之间(HEAD)的差异

```
git diff --cached
```

```
git diff --staged
```

显示的是下一次commit时会提交到HEAD的内容(不带-a情况下)

c、显示工作版本(Working tree)和HEAD的差别

```
git diff HEAD
```

d、直接将两个分支上最新的提交做diff

```
git diff topic master 或 git diff topic..master
```

e、输出自topic和master分别开发以来, master分支上的changed。

```
git diff topic...master
```

Changes that occurred on the master branch since when the topic
branch was started off it

f、查看简单的diff结果, 可以加上--stat参数

```
git diff --stat
```

g、查看当前目录和另外一个分支的差别

```
git diff test
```

显示当前目录和另一个叫'test'分支的差别

```
git diff HEAD -- ./lib
```

显示当前目录下的lib目录和上次提交之间的差别（更准确的说是在当前分支下）

h、比较上次提交commit和上上次提交

```
git diff HEAD^ HEAD
```

i、比较两个历史版本之间的差异

```
git diff SHA1 SHA2
```