Cheatsheets / Learn Git

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Git Branching

The Master Branch

In Git, the main project is completed on the master branch. Making your first commit in a new git repository will automatically create a master branch. Create new branches from the master branch to develop new features for a project. These branches can be merged into master at a later time to incorporate the new features. You can use git branch to check what branch you're on.

```
$ git init
Initialized empty Git repository in
/home/ccuser/new-project/.git/
$ echo "Hello World!" >> hello.txt
$ git add hello.txt
$ git commit -m 'initial commit'
[master (root-commit) bb0e565] initial
commit
1 file changed, 1 insertion(+)
    create mode 100644 hello.txt
$ git branch
* master
```

Viewing the Current Branch

In Git, the git branch command will display all of the branches. The current branch will display * before its name.

```
$ git branch
* master
new-feature
$
```

Creating a New Branch

In Git, the git branch branch-name command is used to create a new branch called branch-name. Branches should be named something that describes the purpose of the branch.

Note that branch names can't contain whitespace: new-feature and new_feature are valid branch names, but new feature is not.

```
$ git branch new-feature
$ git branch
* master
   new-feature
$
```

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Merging Branches

In Git, the git merge branch-name command will add the changes from branch-name into the current branch. Use this command when you have finished building a feature in a separate branch and want to bring those changes into your current branch.

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```
$ git merge resume-edits
Updating 86b8a77..c443513
Fast-forward
  resume.txt | 2 ++
  1 file changed, 2 insertions(+)
$
```

Merge Conflicts

In Git, a merge conflict occurs when the same file is changed on the current branch and the branch that is being merged. An error will appear displaying: CONFLICT (content): Merge conflict in [filename].

Git will automatically edit the file with the conflict to show where the conflict is. The current branch's text will be between <<<<<< href="https://www.head.org/">
HEAD and ======= . The text from the branch that is being merged into the current branch will be between ======= and >>>>> branch-name

To resolve a merge conflict, edit the file with the conflict, decide which parts of each branch's edits should be kept, then add and commit the file.

Deleting a Branch

In Git, the git branch -d branch_name command is used to delete the branch_name branch. It's good practice to delete a branch after it has been merged into the master branch.

```
PETE PAN

<<<<< HEAD

Address: No 31 Kensington Hill Park,
London, England

======

Address: 113 Gloucester Rd Patchway,
Bristol, England

>>>>>> resume-edits
-------
```

```
$ git branch

* master
  new-feature

$ git branch -d new-feature

Deleted branch new-feature (was 828ea2c).
$
```

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