

# **Git Branching**

#### The Main Branch

In Git, the main project is completed on the main branch. Making your first commit in a new git repository will automatically create a main branch. Create new branches from the main branch to develop new features for a project. These branches can be merged into main 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
```

#### **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.

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

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

#### **Merge Conflicts**

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.

branch that is being merged into the current branch will

#### **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.

## code cademy

```
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).
$
```

### **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.

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