git

This is just the beginning

What is Git?

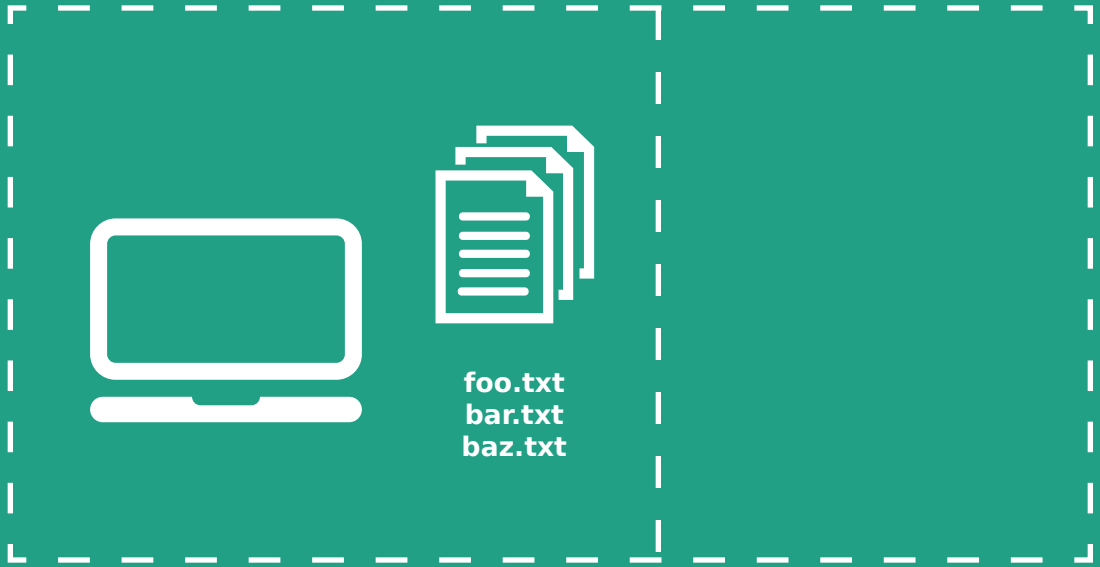
What is Git?

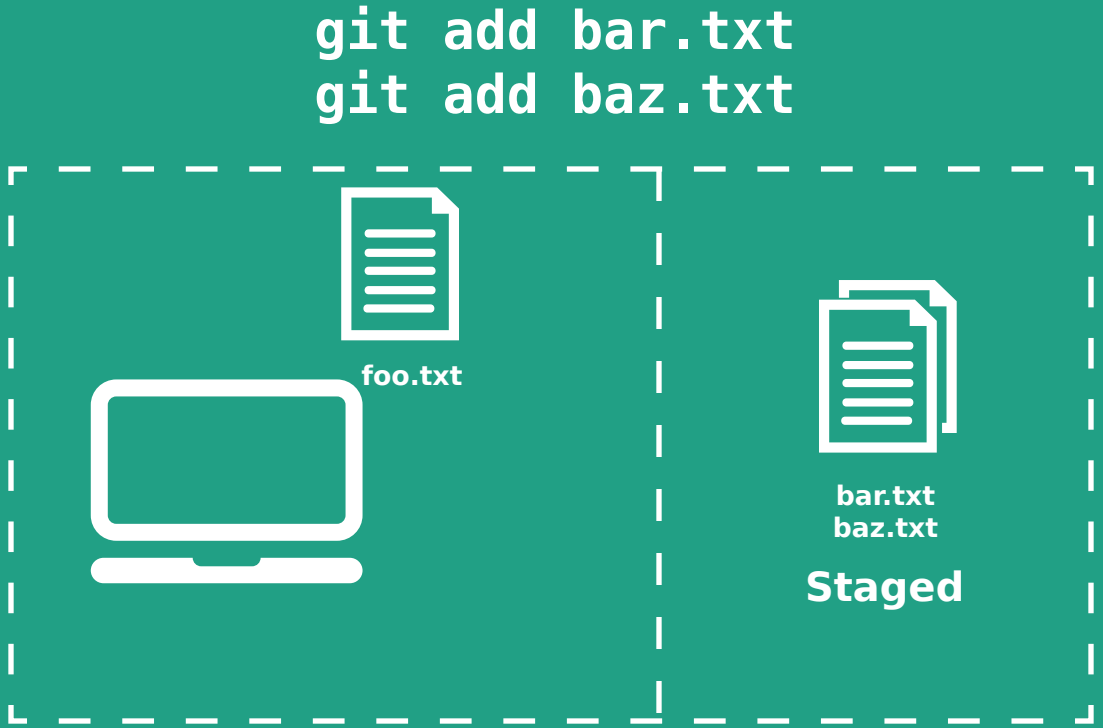
A distributed version control system

Wat?

Bitbucket

git init


foo.txt
bar.txt
baz.txt

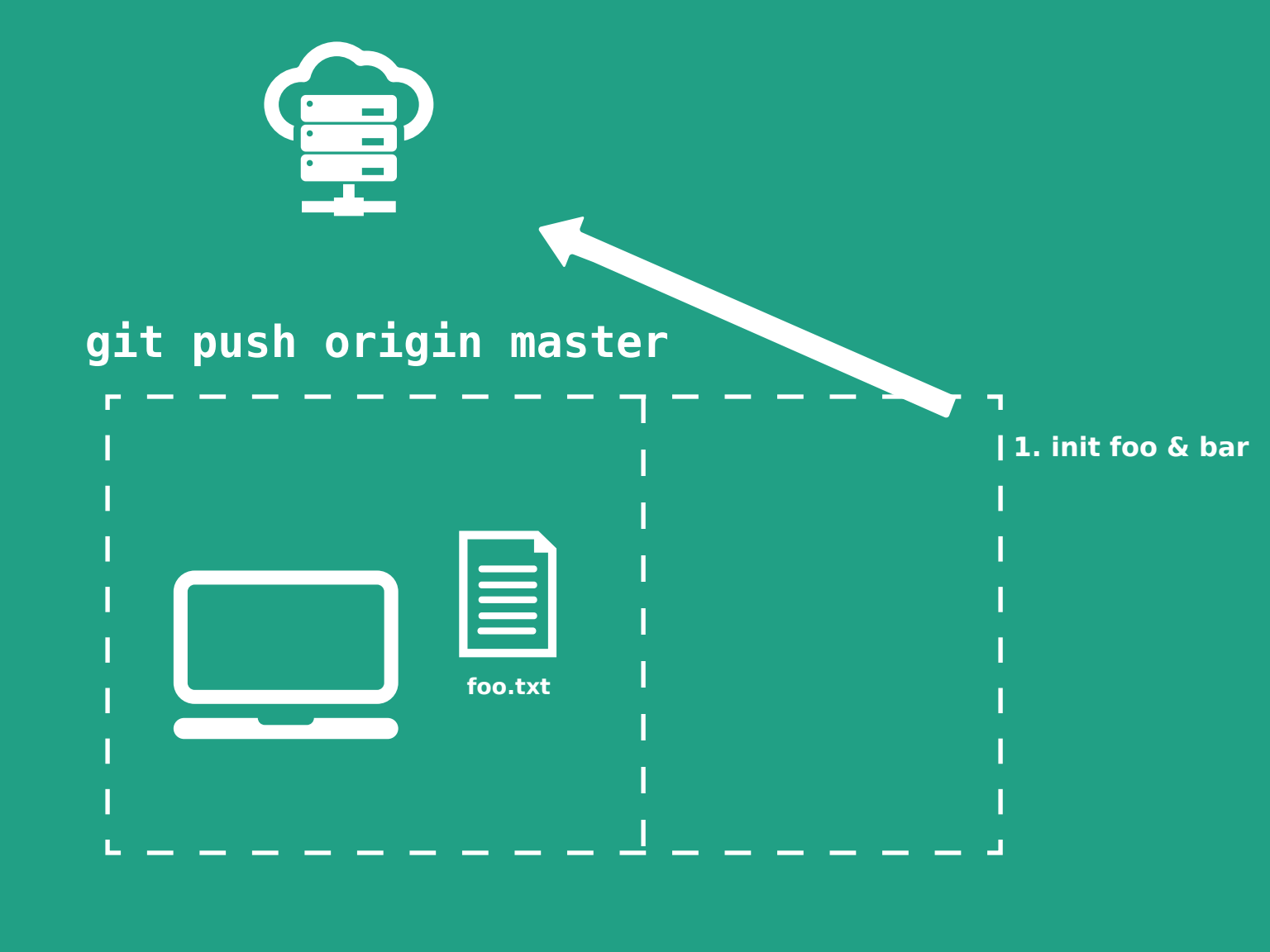

git add bar.txt
git add baz.txt
foo.txt
bar.txt
baz.txt
Staged

```
git commit -m “init foo & bar”
```

1. init foo & bar

remote name

```
git remote add origin <url_to_repo>
```


git push origin master
1. init foo & bar
foo.txt

1. init foo & bar

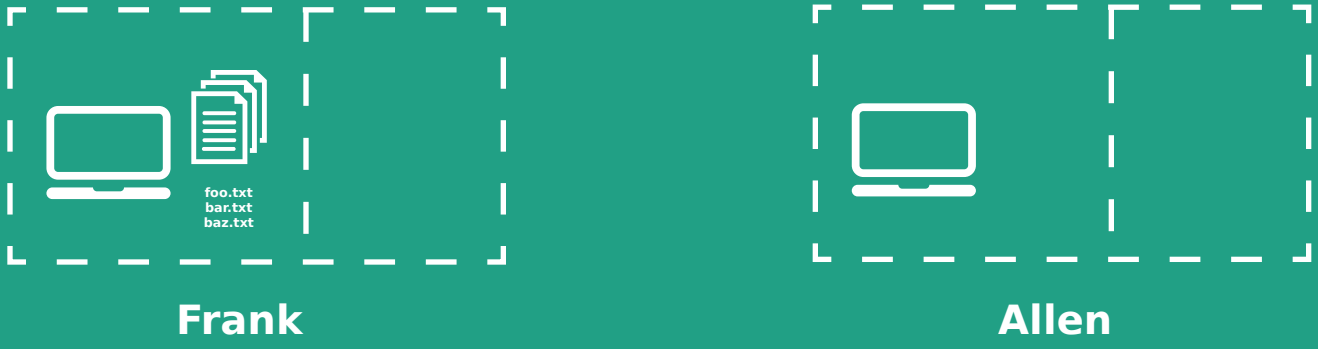
remote name

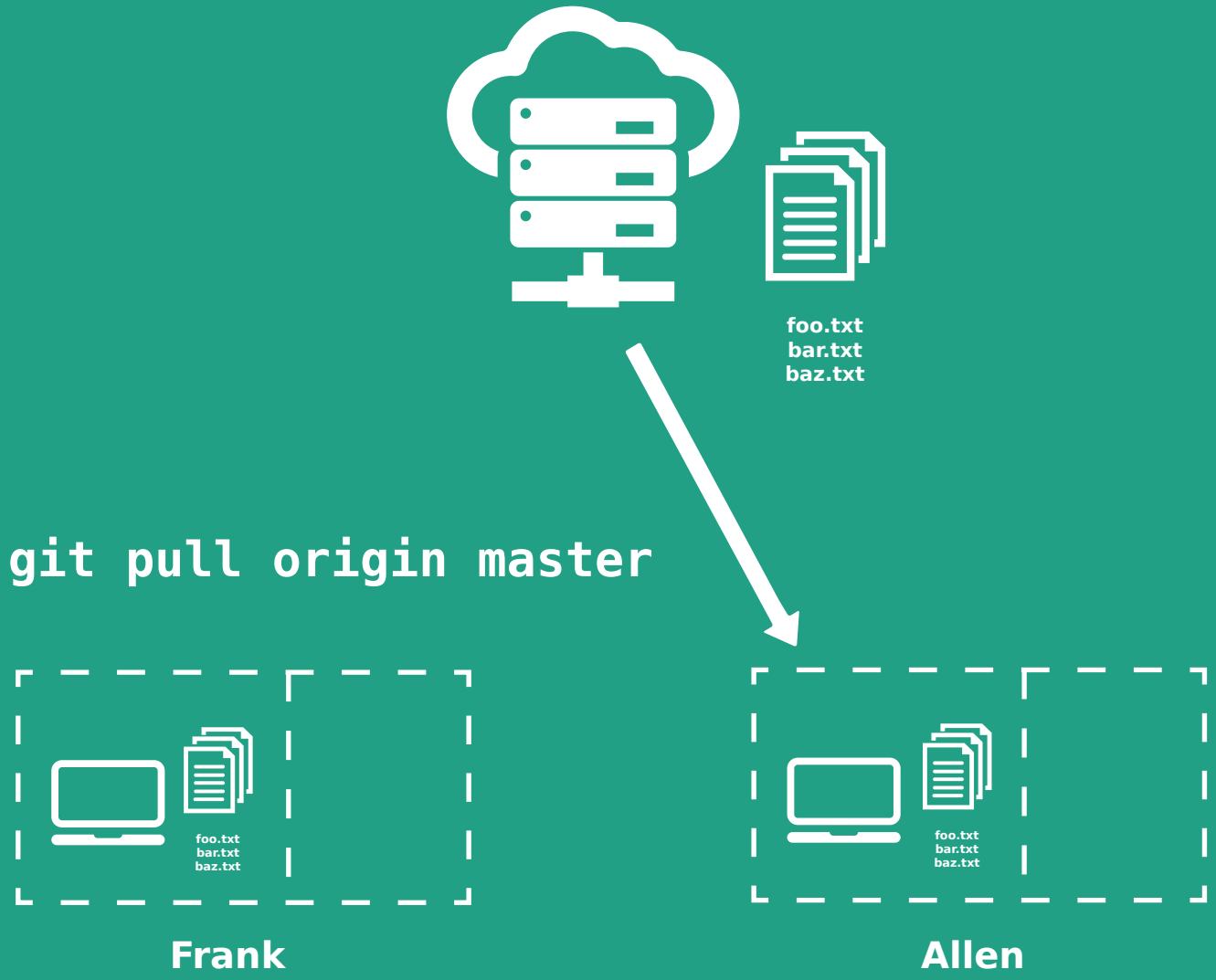
```
git push origin master
```

branch name

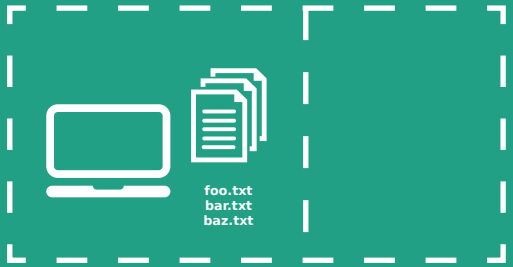
1. init foo & bar

foo.txt
bar.txt
baz.txt


foo.txt
bar.txt
baz.txt
Frank
Allen


foo.txt
bar.txt
baz.txt
git pull origin master
foo.txt
bar.txt
baz.txt
foo.txt
bar.txt
baz.txt
Frank
Allen

foo.txt
bar.txt
baz.txt


foo.txt
bar.txt
baz.txt

Frank

foo.txt
bar.txt
baz.txt

Allen

Merge Conflicts

Merge Conflicts

```
frank@fossbox $ ls
foo.txt bar.txt baz.txt
```

Merge Conflicts

```
frank@fossbox $ ls
foo.txt bar.txt baz.txt

allen@fossbox $ ls
foo.txt bar.txt baz.txt
```

Merge Conflicts

```
frank@fossbox $ ls
foo.txt bar.txt baz.txt

allen@fossbox $ ls
foo.txt bar.txt baz.txt
```

Merge Conflicts

foo.txt

```
<!DOCTYPE html>
<html>
<head>
    <title>buttz</title>
</head>
<body>
</body>
</html>
```

Merge Conflicts

```
*frank changes foo.txt*

frank@fossbox $ git add foo.txt

frank@fossbox $ git commit -m “updated
foo.txt”

frank@fossbox $ git push origin master
```

Merge Conflicts

foo.txt

```
<!DOCTYPE html>
<html>
<head>
    <title>buttz</title>
</head>
<body>
    <script type="text/javascript">
    window.location = "http://www.therubberduck-
is.in";
    </script>
</body>
</html>
```

Merge Conflicts

```
*allen changes foo.txt to some different
code*

allen@fossbox $ git add foo.txt

allen@fossbox $ git commit -m “updated
foo.txt”

allen@fossbox $ git push origin master
```

Merge Conflicts

foo.txt

```
<!DOCTYPE html>
<html>
<head>
    <title>buttz</title>
</head>
<body>
    <p>Nolski is the greatest dude ever</p>
</body>
</html>
```

Merge Conflicts

```
To git@github.com:allen/Fakez0rz.git
 ! [rejected]        master -> master (fetch first)
error: failed to push some refs to
'git@github.com/allen/Fakez0rz.git'
hint: Updates were rejected because the remote con-
tains work that you do
hint: not have locally. This is usually caused by an-
other repository pushing
hint: to the same ref. You may want to first inte-
grate the remote changes
hint: (e.g., 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push
--help' for details.
```

Merge Conflicts

```
allen@fossbox $ git push origin master
```

Merge Conflicts

allen@fossbox $ git push origin master

```
remote: Counting objects: 3, done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 3 (delta 0)
Unpacking objects: 100% (3/3), done.
From github.com:allen/Fakez0rz
 * branch            master     -> FETCH_HEAD
   ff02b9a..036e732  master     -> origin/master
Auto-merging foo.txt
CONFLICT (content): Merge conflict in foo.txt
Automatic merge failed; fix conflicts and then commit
the result.
```

Merge Conflicts

```
<!DOCTYPE html>
<html>
<head>
    <title>buttz</title>
</head>
<body>
<<<<<<< HEAD
    <p>Nolski is the greatest dude ever</p>
=======
    <script type="text/javascript">
    window.location = "http://www.therubberduck-
is.in";
    </script>
>>>>>>> 036e732087324e2ab1e0fe8905b9b1f8c8122220
```

Merge Conflicts

```
<!DOCTYPE html>
<html>
<head>
    <title>buttz</title>
</head>
<body>
<<<<<<< HEAD
    <p>Nolski is the greatest dude ever</p>
=======
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    window.location = "http://www.therubberduck-
is.in";
    </script>
>>>>>>> 036e732087324e2ab1e0fe8905b9b1f8c8122220
```

Merge Conflicts

```
<!DOCTYPE html>
<html>
<head>
    <title>buttz</title>
</head>
<body>
    <p>Nolski is the greatest dude ever</p>
...
```

Questions?