Visualizing version control

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</html>

2 Checkout a new branch with the

<body>

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a git checkout -b a_changes

b git checkout -b b_changes

Time

v1

v2

v3

Team member a

Team member b

individual commits or changes to the code uniquely identified by their hash (e.g. al)

3 Make changes to the code and commit those changes

a2 - index.html

a2 - styles.css

```
{
    margin: 0;
    padding: 0;
    font-family: Arial,
    sans-serif;
    font-size: 14;
}

git add styles.css
git commit -m "initial commit"
```

git add index.html
git commit -m "added header and footer tags"

- Push code to the remote server
- **a** git push origin a_changes



- Open a Pull Request
 (PR) on Github www.github.com
 so your team member can review
 the changes you wish to make
 to the **master** code
- **a** Open a PR on www.github.com



- On Github team member b reviews your code and does one of two things
 - Accepts and merges the code
 Makes comments, asks for revisions, and suggests changes to the code
- **b** Review code



- 7 Once the master branch is updated you should update your working branch
- git checkout master
 git pull
 git checkout b_changes
 git merge master
- At this point the cycle repeats itself.
 Team members continue to create changes
 to the code, commit the changes, and then
 send pull requests to have those changes
 reviewed by their team members.



You may encounter merge conflicts. This happens when two team members edit the same code and try and merge their code together.

git checkout master
git pull
git checkout a_changes
git merge master

Open the code and you'll see something like in a file, for example **index.html**

Fix the conflict by keeping the parts of the code that you want. Then remove the

>>>>> a branch

Save the file and then run the following commands

git add filename (name of file
where there was a conflict)
git commit -m 'fixed conflict'
git push