**Viewing Changes**

We know that

If this isn't the best part of a version control system, I don't know what is! Being able to see the exact changes that were made to a file is incredibly important! Being able to say, "oh, ok, so this commit adds 5 pixels of border-radius to the button!".

For example, in the blog project, the commit

*[The Terminal application. The command](https://classroom.udacity.com/nanodegrees/nd104-ent/parts/e325d5cc-ccd1-4ca8-a562-7eed09ab76c7/modules/a141ebc6-acee-494b-927f-2016d6fe0f9c/lessons/d3d05608-c044-4161-8d5f-9fa3a48b0170/concepts/dac0d8d4-e9a0-4b6e-bf65-f2d8e7a434c8#)*

The

Run this command and check out what it displays.

*[The Terminal application showing the output of the](https://classroom.udacity.com/nanodegrees/nd104-ent/parts/e325d5cc-ccd1-4ca8-a562-7eed09ab76c7/modules/a141ebc6-acee-494b-927f-2016d6fe0f9c/lessons/d3d05608-c044-4161-8d5f-9fa3a48b0170/concepts/dac0d8d4-e9a0-4b6e-bf65-f2d8e7a434c8#)*

**at two different versions of the same file.**

Play

*[The Terminal application showing the output of the](https://classroom.udacity.com/nanodegrees/nd104-ent/parts/e325d5cc-ccd1-4ca8-a562-7eed09ab76c7/modules/a141ebc6-acee-494b-927f-2016d6fe0f9c/lessons/d3d05608-c044-4161-8d5f-9fa3a48b0170/concepts/dac0d8d4-e9a0-4b6e-bf65-f2d8e7a434c8#)*

**Annotated**

Using the image above, let's do a quick recap of the

* 🔵 - the file that is being displayed
* 🔶 - the hash of the first version of the file and the hash of the second version of the file
  + not usually important, so it's safe to ignore
* ❤️ - the old version and current version of the file
* 🔍 - the lines where the file is added and how many lines there are
* ✏️ - the actual changes made in the commit
  + lines that are red and start with a minus (
  + lines that are green and start with a plus (

**Further Research**

* [Generating patches with -p](https://git-scm.com/docs/git-diff#_generating_patches_with_p) from the Git docs

**QUESTION 1 OF 4**

Using what you've learned so far about

Tip - don't forget that while looking at the

* line 63     line 89    line 127    line 155

**SUBMIT**

**QUESTION 2 OF 4**

Using

* color: #352d2d;     color: #250808;     color: #333333;    color: #2e3d49;

**SUBMIT**

**QUESTION 3 OF 4**

What happens when

* it displays only the patch information     it displays only the stats     it displays both with the patch info above the stats info    it displays both with the stats info above the patch info

**SUBMIT**

In the video above, we looked at a commit that indents a lot of code. The patch output shows all of those lines as having been removed and then added again at their new level of indentation. Showing all of the indent changes makes it hard to tell what was actually added, though.

**QUESTION 4 OF 4**

What does the

* it displays non-whitespace characters in blinking text     it displays non-whitespace changes in bold    it ignores whitespace changes    it shows a separate patch area with just new/removed content

**SUBMIT**

To recap, the

This command adds the following to the default output:

* displays the files that have been modified
* displays the location of the lines that have been added/removed
* displays the actual changes that have been made