



Amazing Pictures Inc.

Before



After



Cloud 9 Workspace Link: <https://ide.c9.io/kshah5225/csp6-shah-k-python>

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Brainstorming/Ideas

Ideas For Project:

- Apply border on the outside
- Make the borders different colors and shapes
- Add rounded corners to some pictures
- Change the whole tone of the picture any color
- Add borders to only certain sides
- Add text to the borders
- Apply company logo
- Make every picture for each family member the same
- Add multiple colors to the border
- Add multiple colors for the tone
- We can add a logo onto the frame
- Add different color borders
- Add watermarks
- Add different borders and relate them to other borders for other family member pictures
- We need to add stickers/drawings on the images if possible

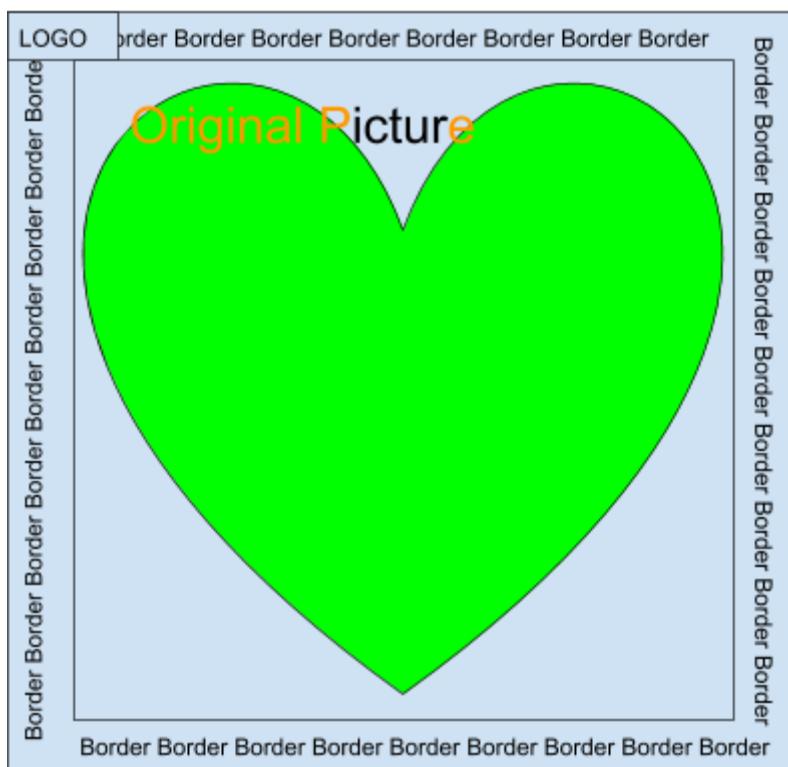
Tier 1: Change the whole tone of the picture any color/Apply logo on picture

Tier 2: Apply border on the outside/Apply logo on picture

Tier 3: Make the borders different colors and shapes, Add watermarks

Brainstorming Sketch:

Note everything in the heart shape changes color slightly



Gallery Walk

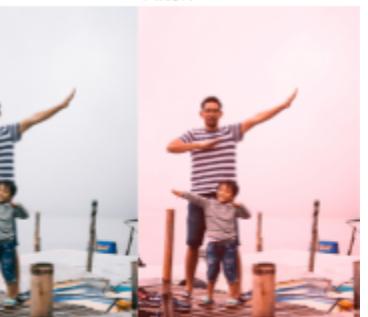
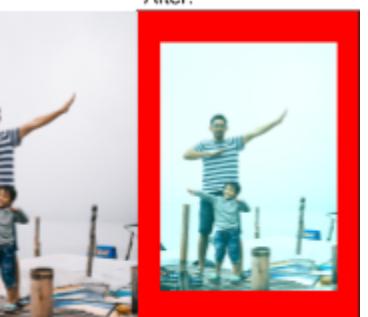
INSTRUCTIONS:

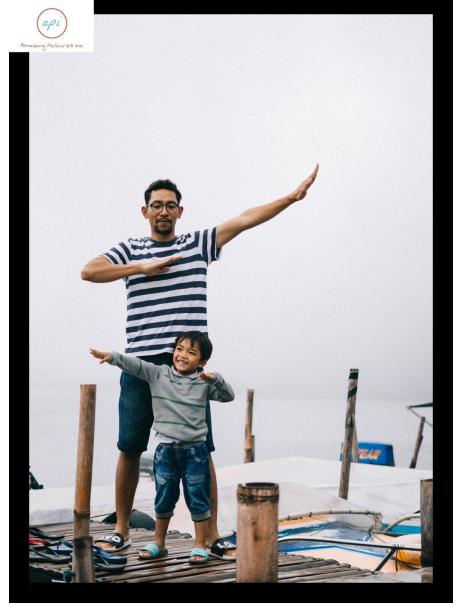
1. Open a new Terminal
2. in the ipython workspace put: ipython
3. Hit Enter
4. in the ipython workspace put: cd Joh_Shah_1.4.7/Project_Images
5. Hit Enter
6. again type in: %run . ./Joh_Shah_1.4.7.py
7. Hit Enter
8. Follow on Screen Instructions(Follow instructions in the Terminal)

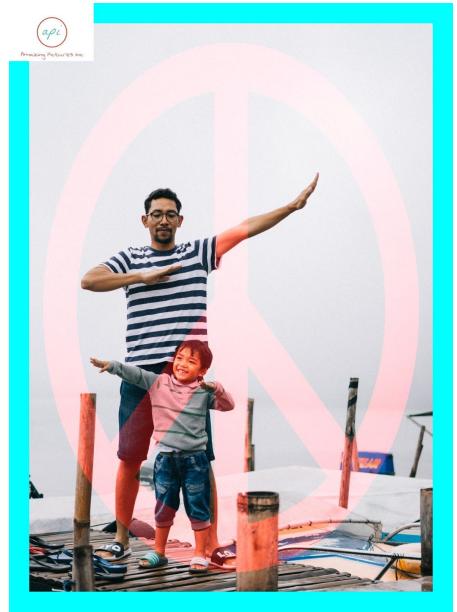
[link to presentation](#)

Pros:	Cons:
<ul style="list-style-type: none">● Like how you put the peace sign in all of them. The pictures all came out pretty smooth● Nice presentation, code is structured, and nice cover page● I like how you were able to put a semi-transparent peace-sign over the image, maybe you should have chosen another symbol, i.e. heart● pink-tinted peace sign is very cool and unique● CREATIVE● I like the transparent watermark●	<ul style="list-style-type: none">● Needs better doc strings, single comments x2● The overlay covers the whole image and only worsens the effect.● Remember to complete your docstrings they are incomplete or missing● watermark should be transparent x2● There isn't a range of values that you can set border colors to. Try allowing the user to input RGB values.● sometimes, the border and logo sizes make the image weird●

Project Log

Date:	Kunal Shah:	David Joh:	Pictures:
3/4	<ul style="list-style-type: none"> • Picked company name • Made company Logo • Started to Discuss which project to choose out of the 4 and how to implement them 	We picked our company name, which project we were going to do, and started coming up with ideas.	<p>Logo:</p>  <p>Amazing Pictures Inc</p>
3/5	<ul style="list-style-type: none"> • Choose project 2 • Did some Brainstorming and started looking into how to code it • Started with adjusting the RGB values to make a sort of simple filter(Only got Red working by end of today) • Went searching for free to use photos and tried to find one source for all of the family images 	We finished half of our brainstorming and started to form more condensed/finalized ideas.	<p>Before: </p> <p>After: </p>
3/6	<ul style="list-style-type: none"> • Had issues with photo directories but apollo helped me(I was being silly and not using strings for the file path) (This was done in preparation for running many images at once) 	finished finding the photos to use for our project and then organized the folders/directories for our photos	No difference in picture today
3/7	<ul style="list-style-type: none"> • I have Finished the RGB completely • I am moving on to add a border but I spent lots of time trying to figure out why my code was not working. In the End Apollo showed me that I was using numpy when to use the border Function I needed to use PIL. Apollo told me I needed to convert the image from numpy to PIL on numpy which looked like 	we finished the first edit to our photos which was color, and started to work on our second edit for our photos which was the borders	<p>Before: </p> <p>After: </p>

	<p>this:</p> <pre>(insert name of PIL image) = PIL.Image.fromarray(img)</pre> <ul style="list-style-type: none"> I added the code to add my border after this 		
3/8	<ul style="list-style-type: none"> I want to add my logo to the top left of the picture Had lots of trouble with the paste command in PIL because I was trying to get the paste function to open the images itself instead of opening the image as a PIL on a previous line then pasting the image) 	<p>we tried to add a logo to our photos but we were stuck for a little and just kept trying to get it to work, I also started to work on the presentation.</p>	No difference in picture today
3/11	<ul style="list-style-type: none"> I figured out the paste issue yesterday but still needed to work on the paste function to make it work right because of weird sizing Started to look into making masks and I have made no real progress in masks because I have no clue how to do them 	<p>we had some issues so we spend most of class trying new code and just trying to figure out how to do fix everything, trying to get help from others and just repeating new and different code over and over again.</p>	
3/13	<ul style="list-style-type: none"> I worked on Masks for a while longer before getting frustrated because I couldn't get it to work at all. I worked a good Bit on Documentation 	<p>we finished a lot of documentation and we were still stuck trying to figure out code and we were just working on code/deleting code to try and get everything to work.</p>	No difference in picture today
3/14	<ul style="list-style-type: none"> I got Help From Apollo and He showed me that I was using the wrong function to put on a mask and I had to use paste Function 	<p>our edits were very basic so we started to come with the idea to make a peace sign</p>	

	<ul style="list-style-type: none"> on for a mask. I attempted to make a Peace Sign a masked overlay that's a altered/original image combo but it looks cool in its own way 	on our photos and we had to edit the borders of our photos to just overall make the photos look better.	
3/20	<ul style="list-style-type: none"> I got the program to semi work but the border causes a weird aspect ratio which does not allow the 2 images to line up correctly I reworked my code a lot so the border would apply after before logo and after masking to cause minimal torture for myself. It's just getting Hard to test due to lag and general slowness 	we finished working on the code and fixed the images up a little and we just put together more of the code, we were running and testing our codes to see if it was working on our images.	
3/21	<ul style="list-style-type: none"> I have added an percentage counter to show how much percent done an particular image is but that lagged the code a lot more so I removed it. I am completely done with the code to do one picture at a time so I start to implement code to do all images at once which is mostly copied code from the mask.py code with some tweaks 	added touches to the docstrings to make it more specific and cleaned up the comments and just looked over our code for a final time.	
3/22	<ul style="list-style-type: none"> I Finished The code to do all images at once where my biggest problem was understanding code that I did not make. I had to understand the code in order to change it to work for my 	cleaned up our final code and just made sure everything was correct. After finishing all our photos we put the	No difference in picture itself today but now we can do many pictures at once as long as they are in one folder

	<p>application</p> <ul style="list-style-type: none">• got Final images and put them into a presentation full of before and after pics• Also NOTE: there are a couple of errors in my code which aren't actually errors and run just fine.	<p>photos into a google slide to display all our work.</p>	
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Examples

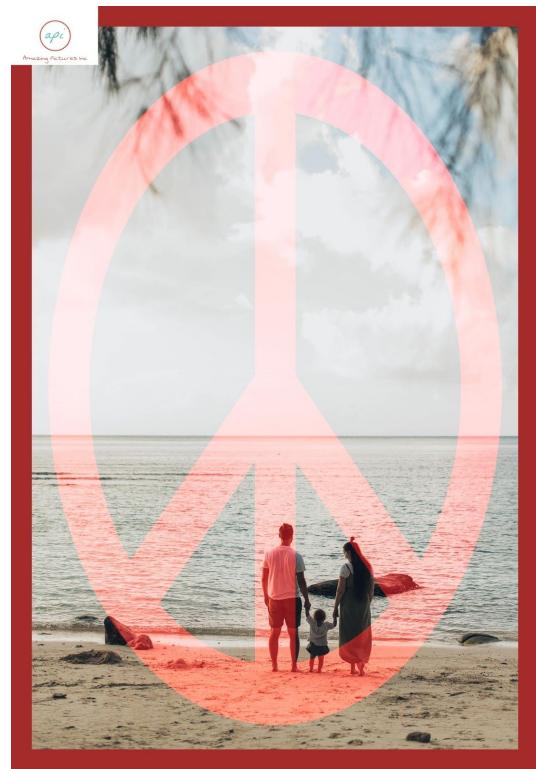
Original:



Input:

```
[1]: %run ../Joh_Shah_1.4.7.py
How much would you like to increase the redness by?(enter a number from 0-255)
120
How much would you like to increase the greeness by?(enter a number from 0-255)
0
How much would you like to increase the Bluiness by?(enter a number from 0-255)
0
How Thick(in pixels) would you like your border to be?(enter a positive number
80
What color do you want your border to be?(preferably enter a word)
brown
Would you like to use a custom watermark image?, If yes you must use a true transparency image(using custom image is highly unrecommended unless you know
what you are doing. Y/N)
N
```

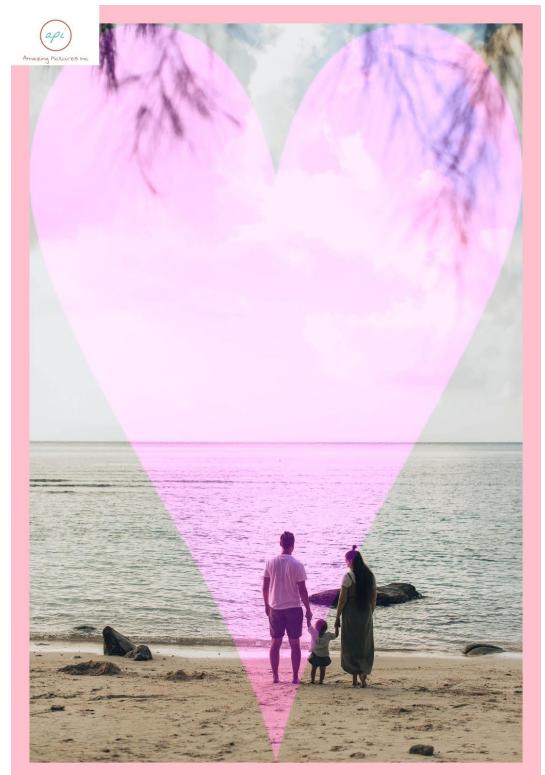
Output:



```
In [4]: %run ../Joh_Shah_1.4.7.py
How much would you like to increase the redness by?(enter a number from 0-255)
0
How much would you like to increase the greeness by?(enter a number from 0-255)
80
How much would you like to increase the Blueness by?(enter a number from 0-255)
80
How Thick(in pixels) would you like your border to be?(enter a positive number
300
What color do you want your border to be?(preferably enter a word)
yellow
Would you like to use a custom watermark image?, If yes you must use a true transparency image(using custom image i
s highly unreccomended unless you know what you are doing. Y/N)
N
```



```
In [5]: %run ../Joh_Shah_1.4.7.py
How much would you like to increase the redness by?(enter a number from 0-255)
60
How much would you like to increase the greeness by?(enter a number from 0-255)
0
How much would you like to increase the Blueness by?(enter a number from 0-255)
60
How Thick(in pixels) would you like your border to be?(enter a positive number
70
What color do you want your border to be?(preferably enter a word)
pink
Would you like to use a custom watermark image?, If yes you must use a true transparency image(using custom image i
s highly unreccomended unless you know what you are doing. Y/N)
Y
Please type out the what the picture is called, includong where it      is in the file tree
.../black_Heart.png
```



Mask Used for this Picture:



Team Reflection

KUNAL SHAH:

At the very beginning we started out very well but then as time went along we lost motivation and the productivity went down as time went on. Something we should do in the future is set deadlines for ourselves internally to ensure that everything gets done on time. If those deadlines aren't met then we will face consequences that escalate severely.

DAVID JOH:

Overall we came up with good ideas to incorporate into our images and collaborated to make the images. We saw eye to eye on many ideas and did not have a hard time coming up with final ideas. We worked mostly in class so neither of were lost at any point because when we were working we were mostly together. There were some disagreements but we were able to positively solve them and come up with an idea that incorporated both our ideas. We were able to finish the project efficiently and work with helping each other and taking responsibility for certain aspects of this project.

Raw Images Used in Algorithm





Credits

<https://www.pexels.com/search/family/>