

Questions about code

Please complete the survey below.

Thank you!

What Python library does the developer use to work with images? Did they attempt a different API first? If so, which one?

* must provide value

What does this line of code do? What other approaches were attempted? What factors did the developer consider when choosing one approach over another?

main.py, line 14:

```
resized_image =  
img.resize((1,1),Image.Resampling.LANCZOS)
```

* must provide value

What web search did the original developer make that led them to the idea of kmeans clustering for image color similarity? Which website first suggested that the developer could use clustering to select photos for the mosaic?

* must provide value

Which approach did the developer work on first, calculating average pixels, or applying kmeans clustering to pixels?

* must provide value

- ☐ Calculating Average Pixels
- ☐ Clustering Pixels

Why did the original developer use the KDTree datatype? What were they searching for online when they found out about KDTrees? Which website gave the developer the idea to use KDTrees?

* must provide value

Why is Mean Squared Error used to compare image distance? More specifically, why does the developer

care about image distance?

* must provide value

Why does the code check for duplicate images before placing a new image in the mosaic?

* must provide value

What is meaningful about the threshold value of 85 specified on line 366?

* must provide value

How was this "85" value determined?

* must provide value

Why does the make_mosaic_kmeans function include the parameter "first_run"?

* must provide value

What is the variable "valid_image_found" used for? On what conditions is this variable set to "True"? What else happens once this variable == True?

* must provide value

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