

PyImageSearch Gurus Course

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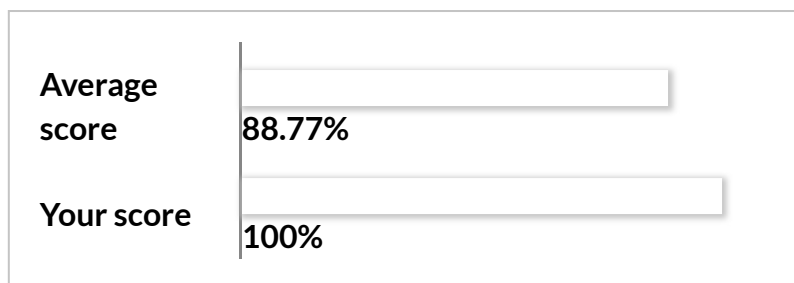
Your First Image Search Engine Quiz

Results

7 of 7 questions answered correctly

Your time: 00:00:44

You have reached 7 of 7 points, (100%)



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1. Question

The UKBench dataset consists of how many examples per image category?

- ☒ 4
- ☐ 8
- ☐ 2
- ☐ 12

Correct

2. Question

In this lesson we built our first CBIR system using color histograms as image descriptors. Based on this fact, determine if the following statement true or false: **A common assumption to make when building a CBIR using color histograms is that images with similar color distributions will have similar visual contents.**

- ☒ True
- ☐ False

Correct

Feedback

3. Question

When using color histograms to describe images, we need to be mindful of the number of bins in the histogram. Too few bins in the histogram and:

- ☐ We don't need to keep in mind the number of bins when constructing color histograms for CBIR systems.
- ☒ **The histogram will not be able to disambiguate between images with dramatically different color distributions.**
- ☐ The comparison of the histograms will be prohibitively slow.
- ☐ Images that are very similar in appearance will not be regarded as similar when comparing the histograms.



Correct

4. Question

Similarly, if we use too many bins:

- ☐ The comparison of the histograms will be prohibitively slow.
- ☒ **Images that are very similar in appearance will not be regarded as similar when comparing the histograms.**
- ☐ We don't need to keep in mind the number of bins when constructing color histograms for CBIR systems.
- ☐ The histogram will not be able to disambiguate between images with dramatically different color distributions.

Correct

5. Question

The best approach to tuning the number of bins in a color histogram for a CBIR system is an iterative one. Perform multiple experiments with varying bins and let the results drive your choice.

- ☐ False
- ☒ **True**

Correct

6. Question

By computing multiple histograms, one histogram for each of the 5 regions of an image, we were able to encode what in our feature vectors?

- ☒ **Locality of color.**

- ☐ The texture of each region.
- ☐ The shape of structures in an image.
- ☐ An over-representation of color.

Correct

7. Question

This lesson demonstrated a *linear searcher*, where we needed to compare the query histogram to every histogram in the dataset:

- ☐ False
- ☒ True

Correct

Feedback

Course Progress

Ready to continue the course?

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- [PyImageSearch Gurus Community](https://community.pyimagesearch.com/) (<https://community.pyimagesearch.com/>).
- [PyImageSearch Virtual Machine](https://gurus.pyimagesearch.com/pyimagesearch-virtual-machine/) (<https://gurus.pyimagesearch.com/pyimagesearch-virtual-machine/>).
- [Setting up your own Python + OpenCV environment](https://gurus.pyimagesearch.com/setting-up-your-python-opencv-development-environment/) (<https://gurus.pyimagesearch.com/setting-up-your-python-opencv-development-environment/>).
- [Course Syllabus & Content Release Schedule](https://gurus.pyimagesearch.com/course-syllabus-content-release-schedule/) (<https://gurus.pyimagesearch.com/course-syllabus-content-release-schedule/>).
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- [Your Achievements](https://gurus.pyimagesearch.com/achievements/) (<https://gurus.pyimagesearch.com/achievements/>).



- [Official OpenCV documentation \(http://docs.opencv.org/index.html\)](http://docs.opencv.org/index.html).

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