≡

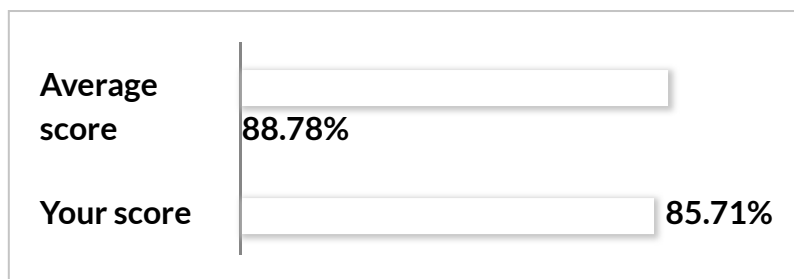## PyImageSearch Gurus Course

🏠 (HTTPS://GURUS.PYIMAGESEARCH.COM) ›

Your First Image Search Engine Quiz

Results

6 of 7 questions answered correctly

Your time: 00:02:21

You have reached 6 of 7 points, (85.71%)

Average score		
	88.78%	
Your score		**85.71%**

Feedback

[Restart quiz] [View questions]

1. Question

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

⊙ **4**

⌃

○ 12

○ 8

○ 2

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.**

○ False

◉ **True**

Correct

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.

○ Images that are very similar in appearance will not be regarded as similar when comparing the histograms.

◉ **The histogram will not be able to disambiguate between images with dramatically different color distributions.**

○ The comparison of the histograms will be prohibitively slow.

Correct

4. Question

Similarly, if we use too many bins:

○ The histogram will not be able to disambiguate between images with dramatically different color distributions.

○ We don't need to keep in mind the number of bins when constructing color histograms for CBIR systems.

◉ **Images that are very similar in appearance will not be regarded as similar when comparing the histograms.**

○ The comparison of the histograms will be prohibitively slow.

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

Incorrect

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?

○ The texture of each region.

○ An over-representation of color.

◉ **Locality of color.**

○ The shape of structures in an image.

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

Course Progress

Ready to continue the course?

Click the button below to **continue your journey to computer vision guru**.

I'm ready, let's go! (/pyimagesearch-gurus-course/)

Resources & Links

- PyImageSearch Gurus Community (https://community.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/)
- Course Syllabus & Content Release Schedule (https://gurus.pyimagesearch.com/course-syllabus-content-release-schedule/)
- Member Perks & Discounts (https://gurus.pyimagesearch.com/pyimagesearch-gurus-discounts-perks/)
- Your Achievements (https://gurus.pyimagesearch.com/achievements/)
- Official OpenCV documentation (http://docs.opencv.org/index.html)

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