pyimagesearch gurus

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PylmageSearch Gurus Course

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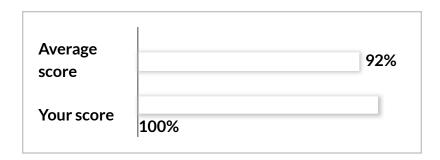
Kernels Quiz

Results

3 of 3 questions answered correctly

Your time: 00:03:05

You have reached 3 of 3 points, (100%)



Click Here to Continue (https://gurus.pyimagesearch.com/lessons/kernels/?quiz_type=lesson&quiz_redirect=1&lesson_id=1018&quiz_id=1667)



1. Question

What does the following kernel do:

- Smooths an image using a 5×5 averaging kernel.
- Smooths an image using a 3×3 averaging kernel.
- Smooths an image using a 7×7 averaging kernel.
- Smooths an image using a 3×3 Gaussian kernel.

Correct

2. Question

Convolve the following two matrices:

$$\begin{bmatrix} -1 & 0 & 1 \\ -2 & 0 & 2 \\ -1 & 0 & 1 \end{bmatrix} \star \begin{bmatrix} 202 & 119 & 154 \\ 106 & 119 & 11 \\ 186 & 48 & 250 \end{bmatrix} = ?$$

- -200
- -174
- 99
- 57

Correct

3. Question

We need to smooth the following image region with a 3×3 averaging kernel — what is the (approximate) output value?

$$K = \frac{1}{9} \begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix} \star \begin{bmatrix} 18 & 143 & 222 \\ 233 & 179 & 97 \\ 234 & 142 & 149 \end{bmatrix} = ?$$

Feedbac

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

- PylmageSearch Gurus Community (https://community.pyimagesearch.com/)
- PylmageSearch 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-developmentenvironment/)
- 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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