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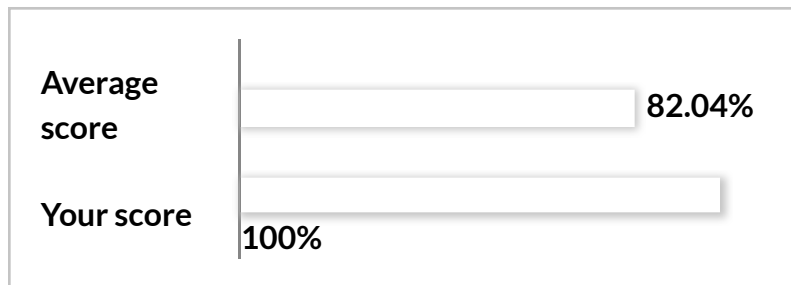PyImageSearch Gurus Course

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Morphological Operations Quiz

Results

5 of 5 questions answered correctly

Your time: 00:04:12

You have reached 5 of 5 points, (100%)

Average score	82.04%
Your score	100%

Click Here to Continue (https://gurus.pyimagesearch.com/lessons/morphological-operations/?quiz_type=lesson&quiz_redirect=1&lesson_id=405&quiz_id=1659)

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1. Question

What is the difference between an erosion and dilation?

Feedback

  ◉ **An erosion eats away at the foreground object, while a dilation increases the size of the object.**

  ◯ An erosion is an opening followed by a closing, while a dilation is a closing followed by an opening.

  ◯ An erosion is a closing followed by an opening, while a dilation is an opening followed by a closing.

  ◯ An erosion increases the size of the foreground object, while a dilation decreases the size of the object.

Correct

2. Question

What is the difference between a closing and opening operation?

  ◯ An opening is a dilation followed by an erosion, while a closing is an erosion followed by a dilation.

  ◯ An opening is the difference between the dilation and an erosion, while a closing is the result of adding the dilation and erosion together.

  ◉ **An opening is an erosion followed by a dilation, while a closing is a dilation followed by an erosion.**

Correct

3. Question

Morphological operations can only be applied to binary images.

  ◯ True

  ◉ **False**

Correct

4. Question

How would you create a 5 20 rectangular kernel using OpenCV?

⚪ `rectKernel = cv2.createKernel(cv2.MORPH_RECT, (20, 5))`

🔘 **`rectKernel = cv2.getStructuringElement(cv2.MORPH_RECT, (5, 20))`**

⚪ `rectKernel = cv2.getStructuringElement(cv2.MORPH_RECT, (20, 5))`

⚪ `rectKernel = cv2.createKernel(cv2.MORPH_RECT, (5, 20))`

Correct

5. Question

Use the OpenCV documentation (http://docs.opencv.org/index.html) to lookup the

`cv2.getStructuringElement` function.

Which kernel shape is **NOT** listed?

⚪ MORPH_RECT

⚪ MORPH_ELLIPSE

⚪ MORPH_CROSS

🔘 **MORPH_CIRCLE**

Correct

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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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