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About this Guided Project

In this 1-hour long project-based course, you will learn how to do Computer Vision on images with OpenCV and Python using Jupyter Notebook.

This course runs on Coursera's hands-on project platform called Rhyme. On Rhyme, you do projects in a hands-on manner in your browser. You will get instant access to pre-configured cloud desktops containing all of the software and data you need for the project. Everything is already set up directly in your Internet browser so you can just focus on learning. For this project, you'll get instant access to a cloud desktop with Python, Jupyter, and OpenCV pre-installed.

Prerequisites:

In order to be successful in this project, you should have a basic knowledge of Python.


Notes:

- You will be able to access the cloud desktop 5 times. However, you will be able to access instructions videos as many times as you want.
- This course works best for learners who are based in the North America region. We're currently working on providing the same experience in other regions.

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Learn step-by-step

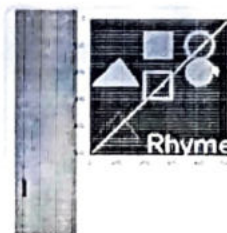
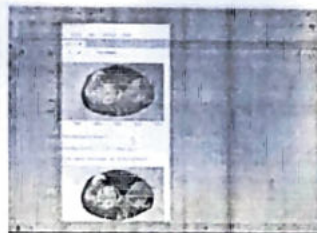
In a video that plays in a split-screen with your work area, your instructor will walk you through these steps:


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- 1 • Task 1: Introduction
- 2 • Task 2: How to open an Image with Matplotlib
- 3 • Task 3: Get familiar with RGB channels
- 4 • Task 4: Differences between Matplotlib and OpenCV
- 5 • Task 5: Resize & Flip an Image
- 6 • Task 6: Draw Shapes on an Image (Part 1)
- 7 • Task 7: Draw Shapes on an Image (Part 2)
- 8 • Task 8: Draw with the Mouse
- 9 • Task 9: Event Choices for the Mouse
- 10 • Task 10: Mouse Functionality

Recommended experience

4 project images



Instructor

Instructor ratings 3.9 ★ (41 ratings)



Ilias Papachristos

Coursera Project Network

1 Course • 15,735 learners

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How you'll learn



Skill-based, hands-on learning

Practice new skills by completing job-related tasks.



Expert guidance

Follow along with pre-recorded videos from experts using a unique side-by-side interface.



No downloads or installation required

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Access the tools and resources you need in a pre-configured cloud workspace.

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Available only on desktop

This Guided Project is designed for laptops or desktop computers with a reliable Internet connection, not mobile devices.

Why people choose Coursera for their career



Felipe M.
Learner since 2018

"To be able to take courses at my own pace and rhythm has been an amazing experience. I can learn whenever it fits my schedule and mood."



Jennifer J.
Learner since 2020

"I directly applied the concepts and skills I learned from my courses to an exciting new project at work."

★ 4.3 680 reviews



SD

★ 4 · Reviewed on Jun 10, 2020

It would be good, if instructor explains why we are using these modules and parameters inside it with different examples.

SV

★ 4 · Reviewed on Jun 13, 2020

It was a good course. But a very short one, I was hoping to learn more about image manipulation.

RB

★ 5 · Reviewed on Sep 12, 2020

Good course i thought it would cover all the basics of opencv but it was listed good project

[View more reviews](#)

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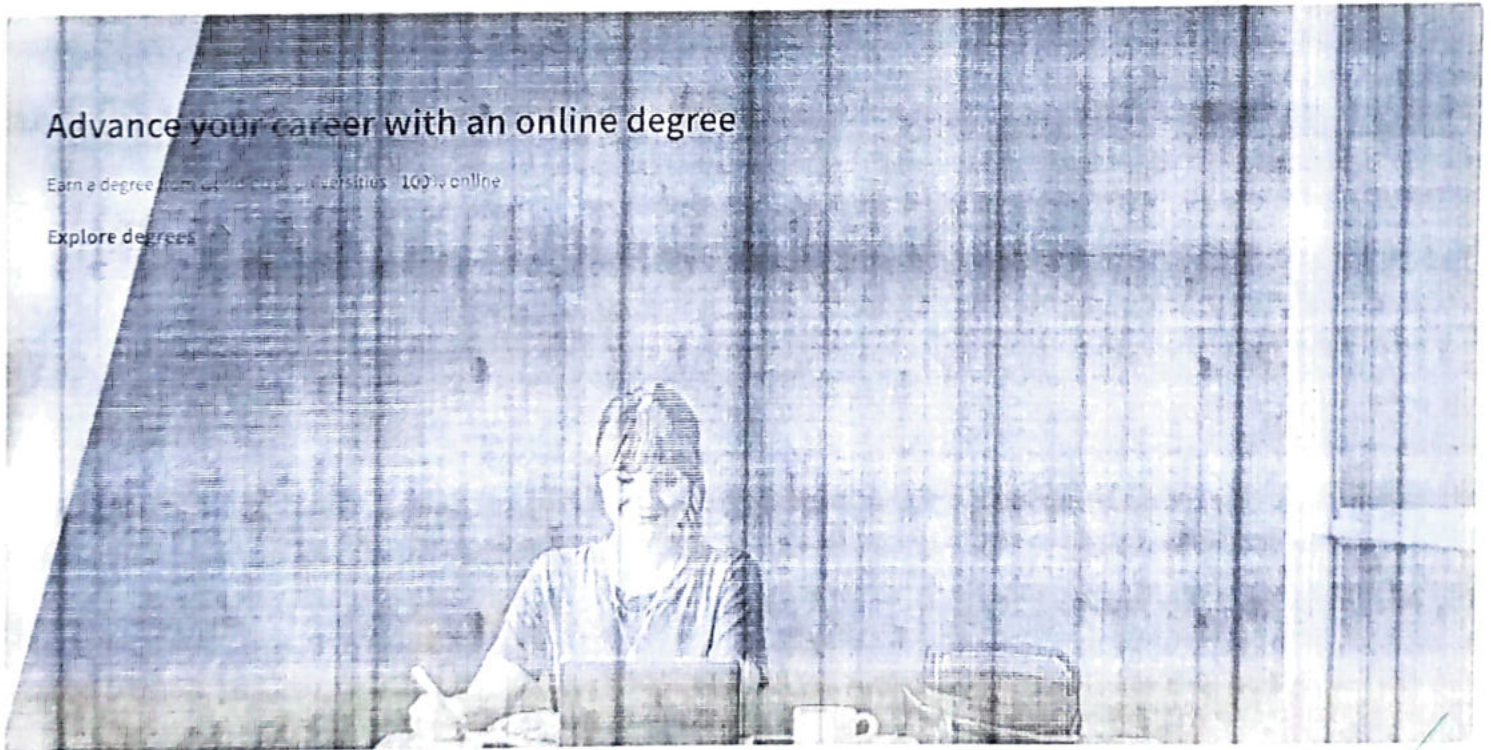
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Frequently asked questions

> What will I get if I purchase a Guided Project?

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Department: Electronics and Telematics Engineering
2019-20

REPORT

FDP on computer Vision-Image Basics with Open CV and Python

Date of program: 04-05-2020 to 10-05-2020

I N.Ramakrishna attended the FDP on computer Vision-Image Basics with Open CV and Python, in which I gained knowledge in the following topics. Introduction, to open an Image with Matplotlib, RGB channels, Differences between Matplotlib and OpenCV, Resize & Flip an Image. This hands-on approach not only enhanced my technical proficiency but also provided valuable resources for creating engaging classroom activities. Resize & Flip an Image, Draw Shapes on an Image, Draw Shapes on an Image, Draw with the Mouse, Choices for the Mouse, Mouse Functionality. Overall, the FDP proved to be an intensive and rewarding experience, significantly enhancing my expertise in the dynamic fields of Image with an open CV.

Signature of the Faculty member

N. Ramakrishna, Asst Professor, ETE

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