PHOENIX
SPACE

LUMO
ASSOCIAZIONE

IMPACT REPORT

Phoenix Space and Associazione Lumo
Python Pioneers
May – December 2023

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PARTNER AND COURSE INFORMATION

The Python Pioneers course is one of the professional training components provided in the wider Work4All program. It was designed by Phoenix Space and delivered by Associazione Lumo in Milan, Italy between May and November, 2023.
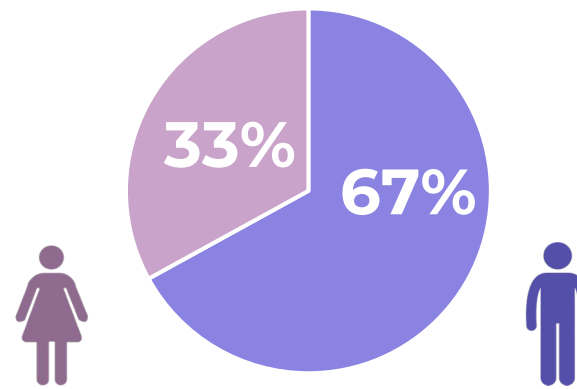
The Work4All program facilitates the entry/ re-entry into the labor market for migrants/ immigrants in Italy through vocational and professional training programs.

Student demographics

12 students

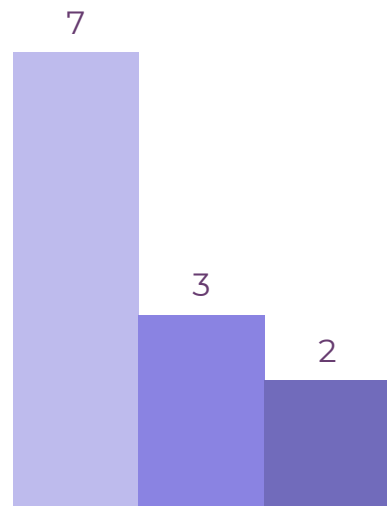**100%** are refugees or dis-advantaged migrants

Gender Distribution

33%

67%

Average **English** Proficiency

B2 Intermediate

Average **Italian** Proficiency

A2 Beginner

Students' Age Ranges

- 20-29
- 30-39
- 40-49

7

3

2

Average Age

32.7

Have you attended university?

20%

80%

- Yes
- No
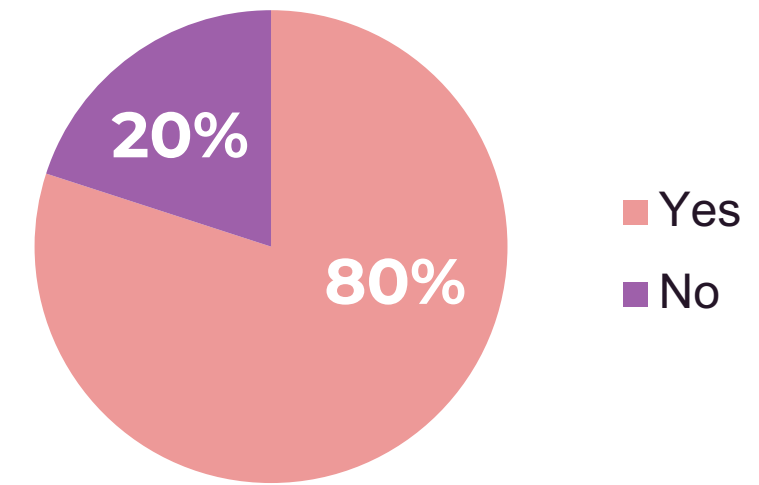
A multi-national cohort from 12 countries

Countries of Origin ⬤

Country of Residence ⬤
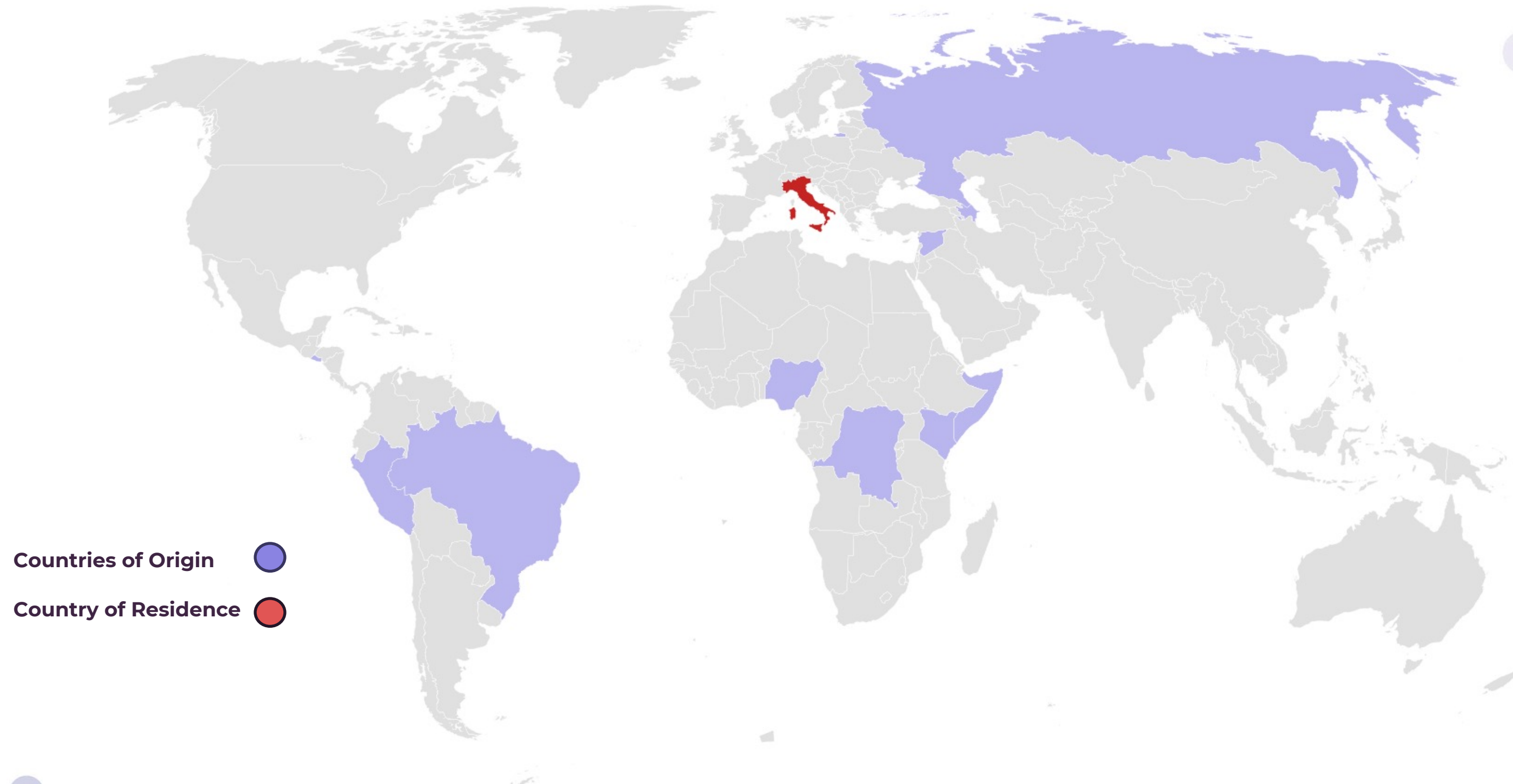
Course completion data

Completion rate

- Completed
- In progress
- Withdrawn/Dropped-out*

25%
50%
25%

75%
Attended the course in-person

others attended online
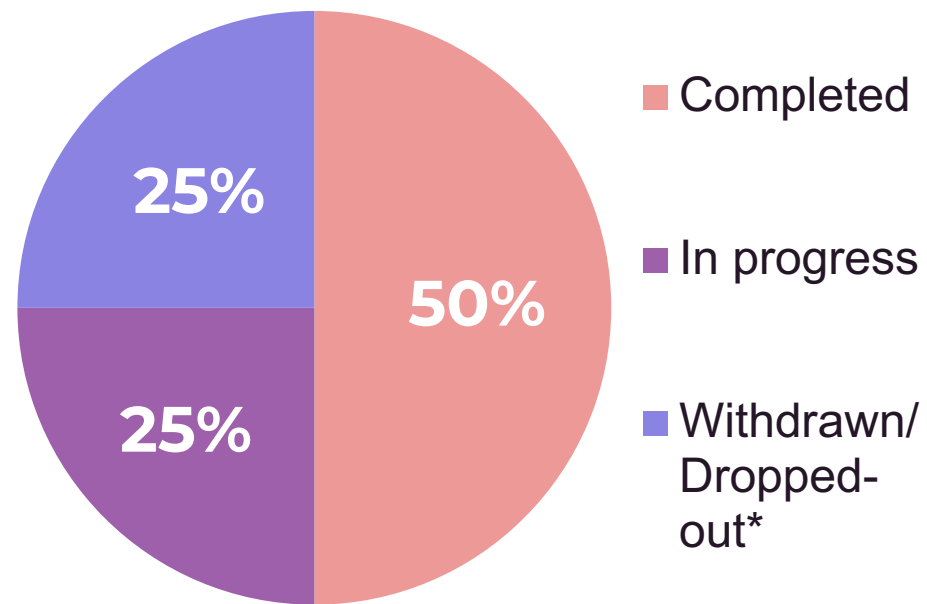
Course level completed
(of the 6 completers)

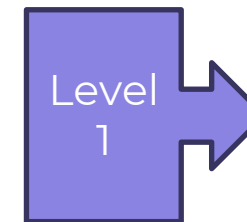- Beginner
- Advanced

17%
83%
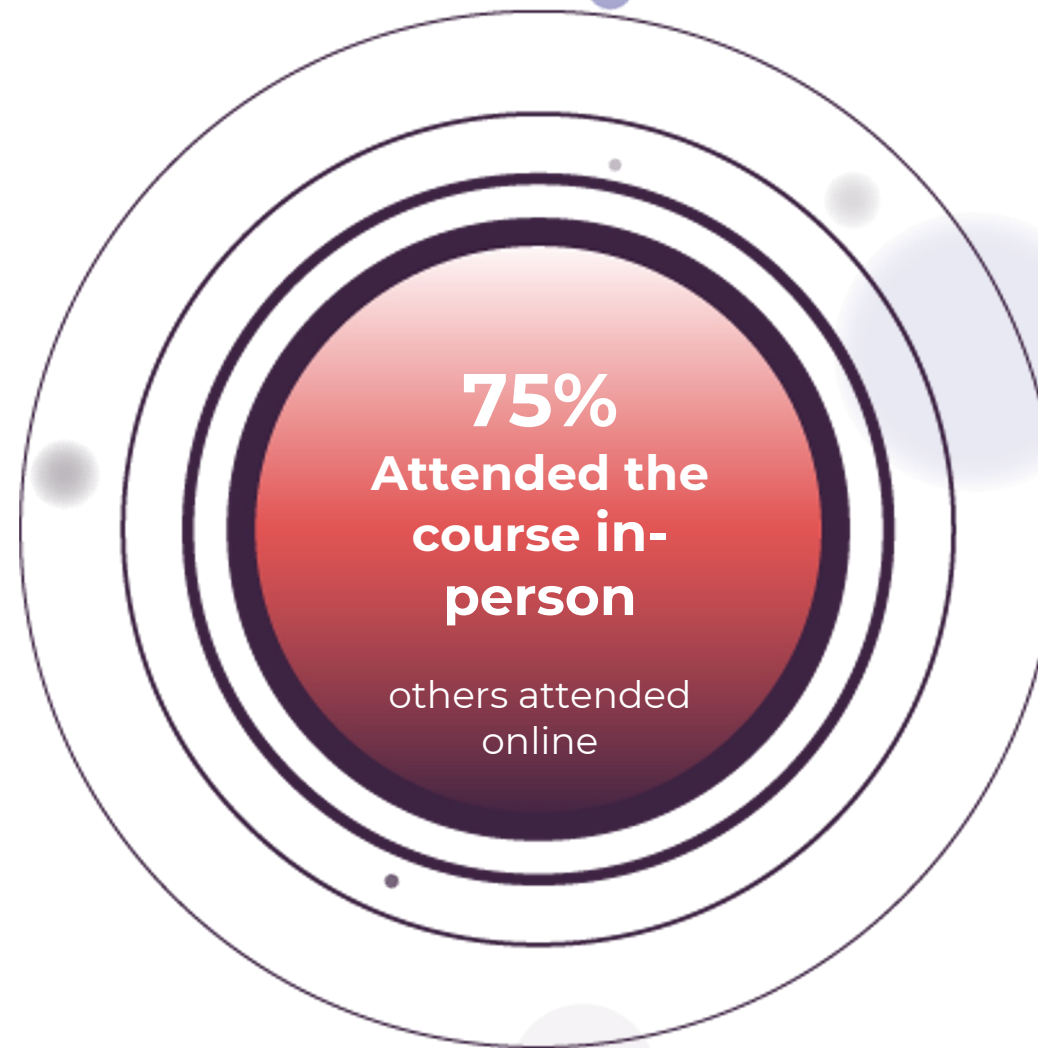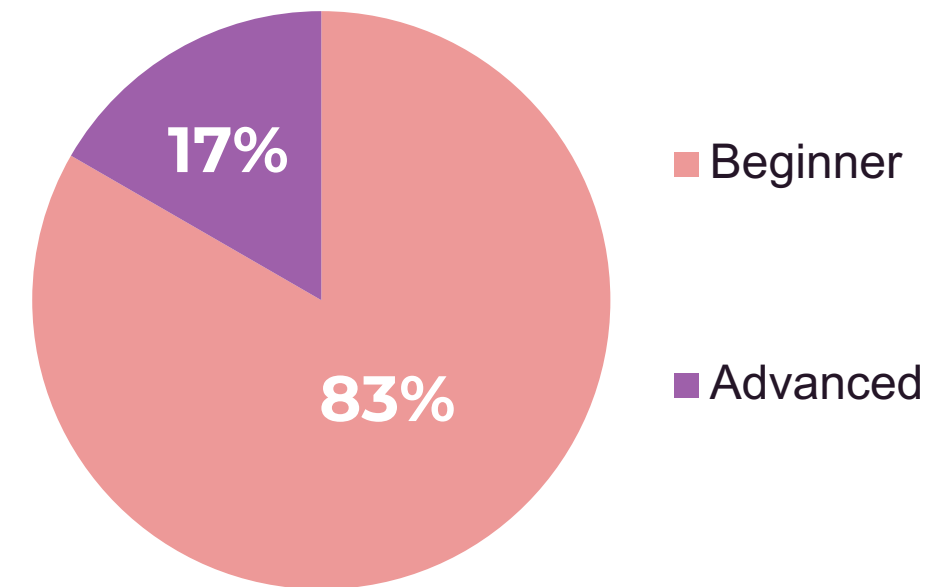
*Students withdrew from the course for various reasons, including conflicting time commitments due to full-time work or university obligations, personal/family issues (including being stranded in home country), or serious health concerns.
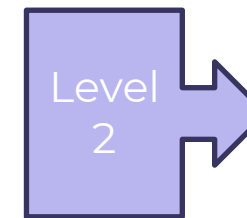
Course details

Course Duration

42 potential learning hours

8 or 14 Lessons

Over 14 weeks

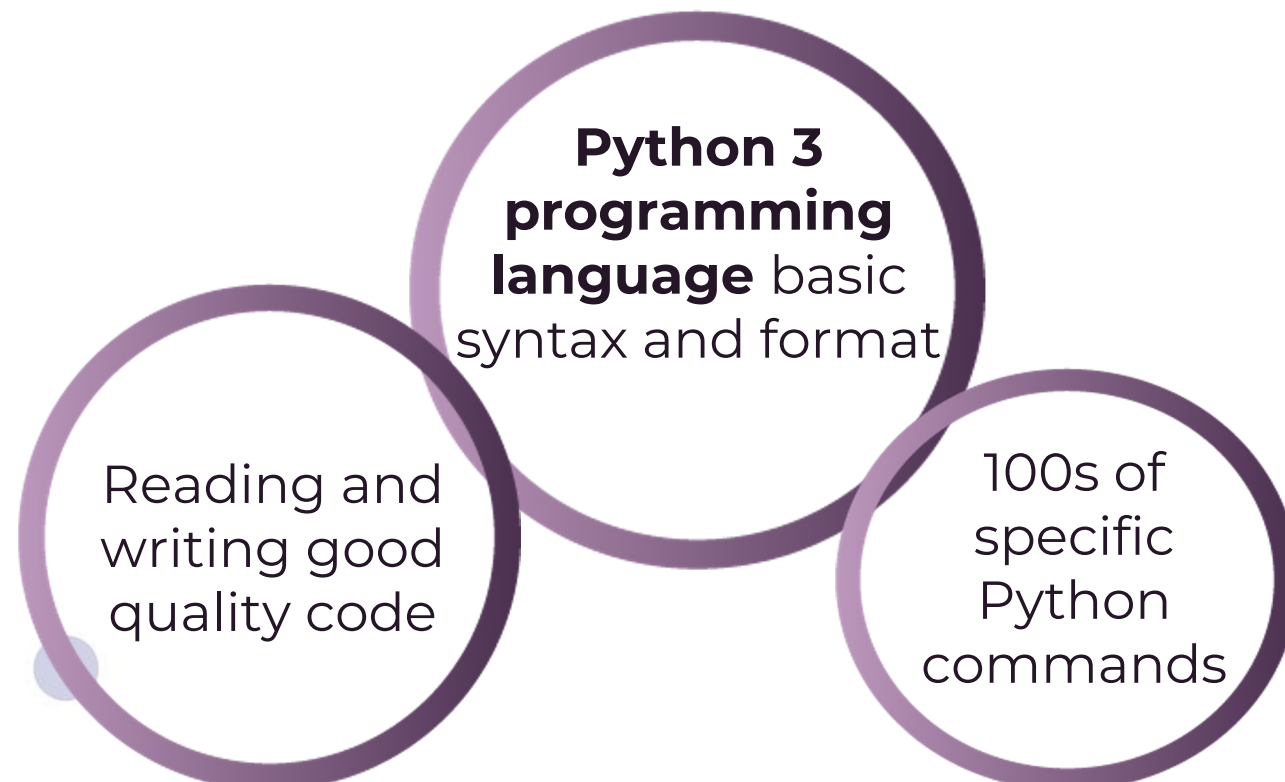## The course was split into 2 levels...

Level 1

Beginner: Lessons 1-8. This level covers fundamental concepts, starting with basic Python syntax and progressing through essential programming constructs like control flow, lists, loops, functions, and string manipulation.

Level 2

Advanced: Lessons 9-14. Building upon the fundamentals gained in the beginner level, we introduce more sophisticated topics such as advanced string manipulation, modules, dictionaries, files and the introduction of classes. This level aims to enhance the ability to write more complex and modular code.

Categories of Learning

Python 3 programming language basic syntax and format

Reading and writing good quality code

100s of specific Python commands

Lumo's Key Staff

Stefania Quattrocchi

Course Tutor

Theo Theimer

Program Manager, Mentor

Engagement and soft-skill building

(based on 8 survey responses)

Survey scoring from 1 to 5
(5 = "strongly agree")

100%

Of students were more motivated to continue learning programming following the course

4.33 Made me believe I can figure out anything if I try hard enough

4.33 Made me build skills that will be helpful in current or future employment

4.22 Taught me how to better find solutions to problems

4.67 Made me think about how to apply what I'm learning in practical ways in my life

4.11 Made me feel more comfortable with digital learning

How do you believe the course has benefited your future?

> " *My medium to long term goal is to work in data analysis. Python is widely used in this industry and I hope it can help me.* "

Mattia, M, 45, Italian

> " *I hope learning Python will make it easier to learn Java. I wish to go into data science and develop models.* "

Kevin, M, 28, Kenyan

> " *It will allow me to search for a new job and work in technology some day.* "

Mayra, F, 33, Peruvian

> " *The Python Pioneers course will strengthen my CV.* "

Kirill, M, 29, Russian

Course feedback

(based on 8 survey responses)

Survey scoring from 1 to 5

1 --------2---------3---------4--------5

88%

Of students would recommend Python Pioneers to a friend

How did you find the difficulty of the content of the course? (5 = very easy)*

How interesting did you find the course to be? (5 = very interesting)

How did you find the pace of the course? (5 = very fast)

How was it for you to take the course in English? (5 = very easy)

2.77

4.56

4.67

4.22

*Students found the exercises were most difficult, noting that they were too long. They also noted that some of the lessons required a baseline knowledge that they were not prepared for. Some videos included thorough explanations while others did not. Additional learning outside of the course was required by some.

Feedback from the Course Tutor
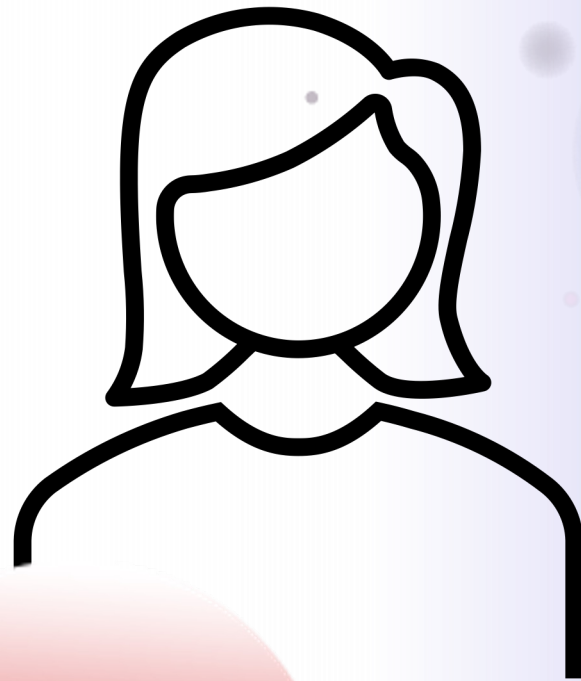
Stefania Quattrocchi

Course Tutor

"

This course was interesting and, at the same time demanding. It was necessary to make continuous adjustments to the teaching plan and to closely follow each participant with continuous reinforcement.
The participants have achieved a background in programming, which is a good basis for continuing their professional development. For some of them, the next step will be the Java/ Javascript course, also in the context of the [Work4All] project.

"

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