



SHAPING THE WORKFORCE OF THE FUTURE WITH **CODEMASTERS** FOR REFUGEE TALENT

LESSON 1

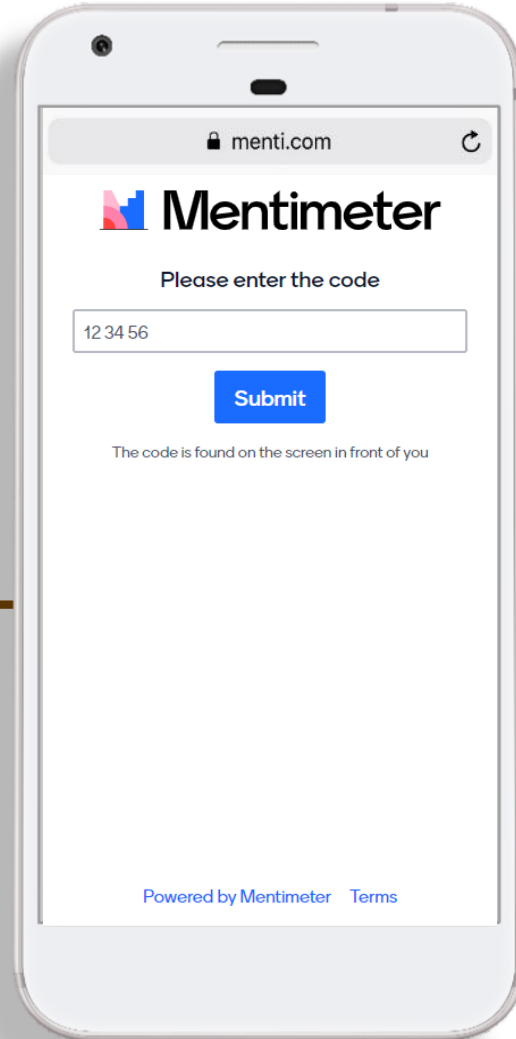


MENTIMETER

TELL US WHAT YOU THINK

What is your
programming
experience?

What do you
expect?



1

Use your **phone**
or your **laptop**

2

Go to
Menti.com

3

Enter the code **1076346**
and respond

WHO ARE WE?



Andreea Moga

Associate Manager

Books, Salsa

1/2 year at Accenture

7 years in IT Consultancy

Fun stuff: in 2012 my english was bad | my dutch was zero



Leonie Dorresteyn

Consultant

Yoga, Salsa, Gaming

3 year at Accenture

WHO ARE THE PARTNERS



WHAT IS CM4RT?

A **10-week** program with a group of talented refugees seeking an interest in coding

Python programming course

Hosted by and at Accenture, partners, and clients

Creates and shapes the workforce of the **future!**

A learning, valuable, and fun experience!



WHO ARE YOU?

INTRODUCTIONS!

State your **name**, your (technical) **background**, and your favourite **food**!



2. LESSON OVERVIEW | TIMELINE

LESSON 1

FIRST LINE OF CODE

- Variables
- Comments
- Whitespace
- String operations

LESSON 3

FUNCTIONS, LISTS & DICTIONARIES

- Functions (custom & built-in)
- Lists (defining, selecting, modifying)
- Dictionaries

LESSON 5

ADVANCED

- "In" function
- Bitwise operators

LESSON 7

FILE I/O / START FINAL ASSIGNMENT

- Reading and writing to flat text files
- Introduction to the final assignment

LESSON 2

STRINGS AND LOGIC

- String operations
- Working with Data & Time
- Conditionals (operators, Boolean logic)

LESSON 4

LISTS IN FUNCTIONS, LOOPS

- For loop
- Iterating over a list

LESSON 6

CLASSES

Introduction to classes and the concept of object-oriented programming

LESSON 8-10

FINAL ASSIGNMENT

The students work on an assignment of their own choice

6 JAN

13 JAN

20 JAN

27 JAN

3 FEB

10 FEB

17 FEB

24 FEB - 10 MAR

SOFT SKILLS
(AFTER LESSON 2)

KICK - OFF LESSON 1

Warm welcome to all our students!

SOFT SKILLS
(AFTER LESSON 9)

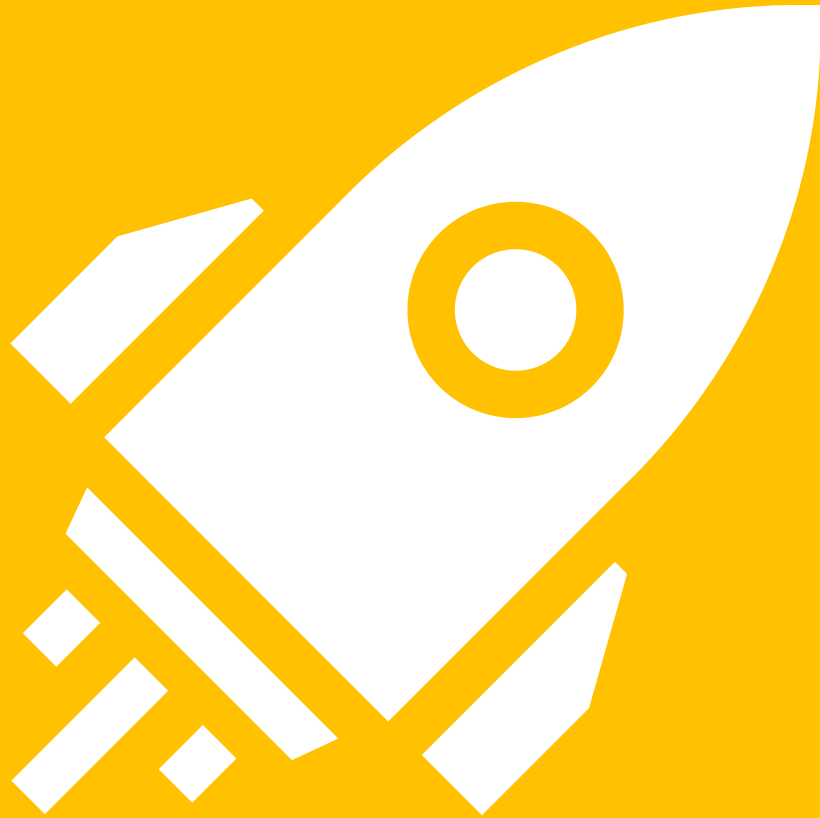
CV & LINKEDIN ADDITIONAL TO LESSON 6

Tips and tricks to make your profile stand out!

ONLINE DRINKS AFTER FINAL SESSION ON MARCH 10

Time to celebrate the end of the program!

THE FINAL ASSIGNMENT



PYTHON

WHAT IS IT?

Python is a **programming language**, one of the most loved in the world because of its ease of use and number of applications.

Python can..

..make movie recommendations

..visualize data clusters

..control robots

..do pretty much anything.

But only if you tell it to.

And especially HOW



Did you know? Python is not named after the snake, but after the British TV show Monty Python

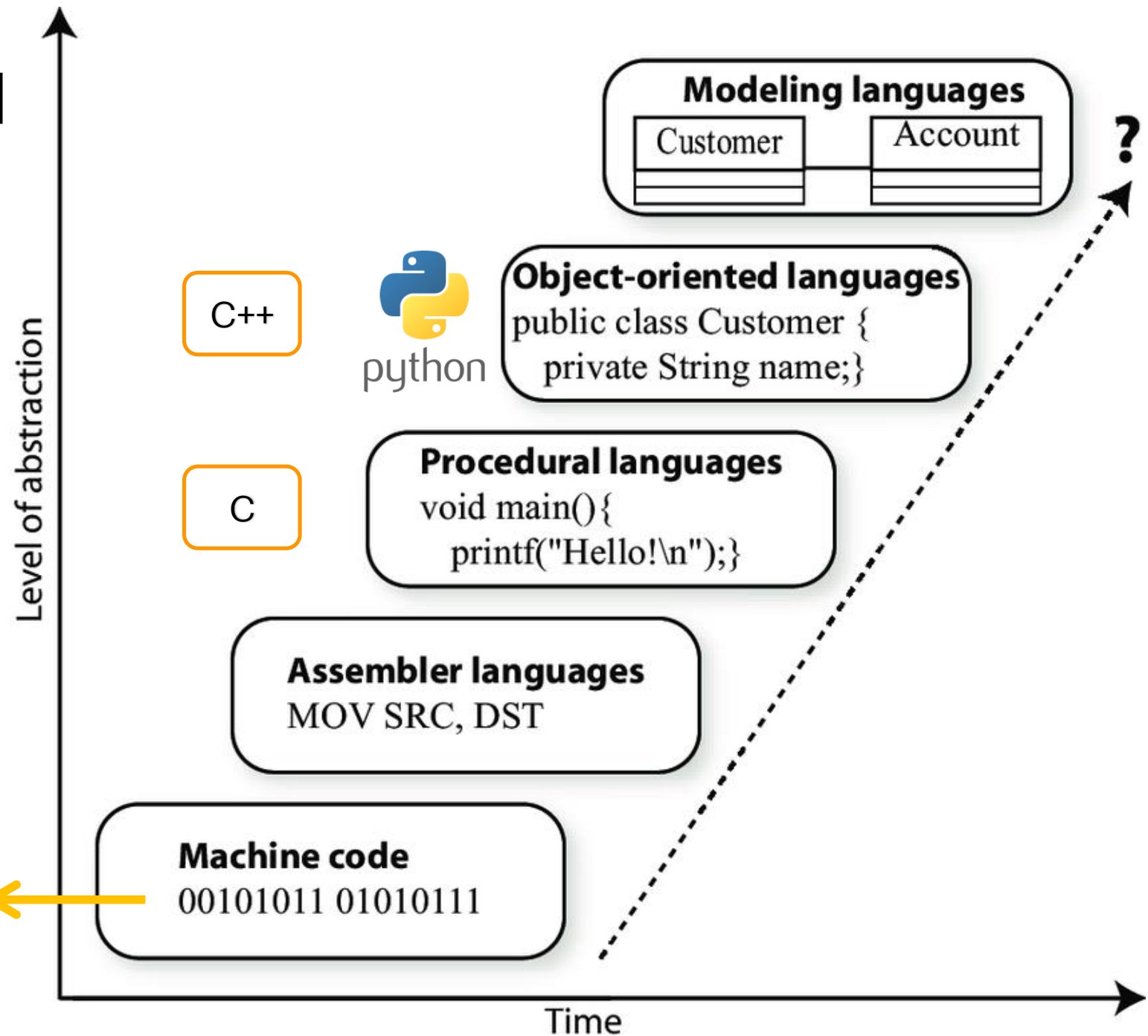
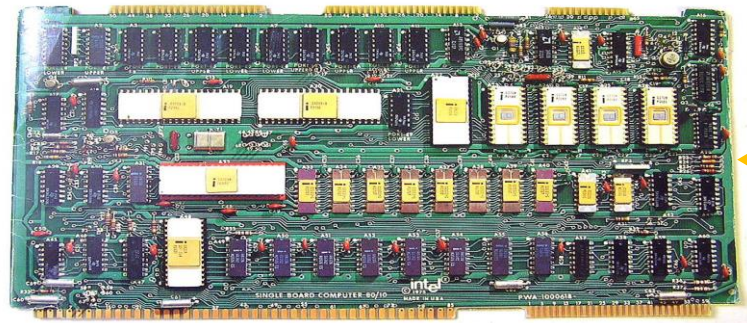


PYTHON

& Django



BACKGROUND ON PROGRAMMING



GETTING CONNECTED

Collaborate on Slack



slack

Click on the link in Teams chat:

- Download & install app: [link here](#)
- Join the workspace: [link here](#)



- For attendance
- For asking questions
- For helping/answering questions of teachers/fellow students

GETTING CONNECTED

Go to www.codecademy.com to create a
free account

Go to python 2 course



DEMO CODEACADEMY

LEARNING PYTHON

In today's class you will learn about the syntax of the Python programming language and will be focusing on the following:

Printing to the screen

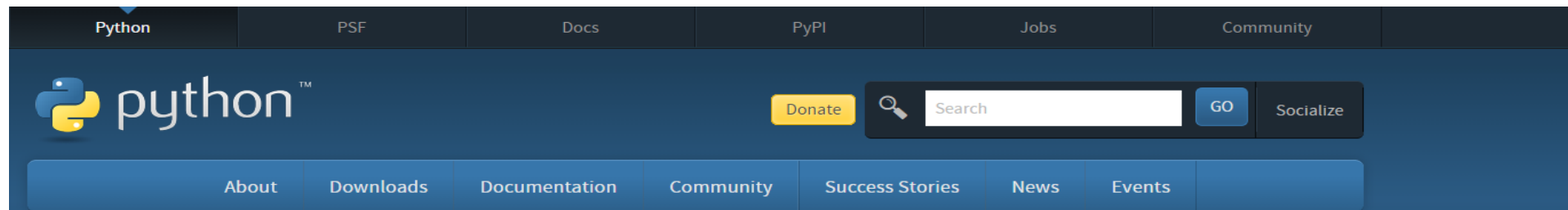
Numbers and text

Errors

Variables

PEP8 PYTHON

STYLE GUIDE FOR PYTHON CODE




Tweets by @ThePSF

 Python Software Foundation
@ThePSF
Python 3.8.7 is now available. It is the seventh maintenance release of Python 3.8. Get it here: python.org/downloads/releases ...

Thank you to all of the many volunteers who help make Python Development and these releases possible!



6h

 Python Software Foundation
@ThePSF

Our fundraiser is officially over & we crushed our goal of \$60K! We don't have the final totals yet, but so far we've raised over \$110K! Thanks to everyone who donated or purchased products & services from @pycharm @talkpython @pycademy ...

Embed

[View on Twitter](#)

[Python](#) >>> [Python Developer's Guide](#) >>> [PEP Index](#) >>> [PEP 8 -- Style Guide for Python Code](#)

PEP 8 -- Style Guide for Python Code

PEP:	8
Title:	Style Guide for Python Code
Author:	Guido van Rossum < guido@python.org >, Barry Warsaw < barry@python.org >, Nick Coghlan < ncoghlan@gmail.com >
Status:	Active
Type:	Process
Created:	05-Jul-2001
Post-History:	05-Jul-2001, 01-Aug-2013

Contents

- [Introduction](#)
- [A Foolish Consistency is the Hobgoblin of Little Minds](#)

PRINT STATEMENTS

```
1 print "Hey there"  
2 print "How are you today?"
```

OR

```
1 print 'Hey there'  
2 print 'How are you today?'
```

```
Hey there  
How are you today?
```

When printing things in Python, we are supplying a text block that we want to be printed to the screen

Text in Python we call a **string**

Strings require a single ' or a double " quote

Both have the same result

HANDLING ERRORS

```
1 print 'this string
```

```
File "script.py", line 1
  print 'this string
        ^
SyntaxError: EOL while scanning string literal
```

If Python does not understand, it will throw an **error**. It will tell you what went wrong, and where.

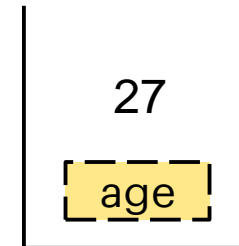
VARIABLES

```
1 age = 27
2 name = "Lisa"
3 print name, 'is', age
```

```
Lisa is 27
```

A variable is like a box, which holds values for you.

You can, among others, put numbers or text (remember string) in these boxes and name them.

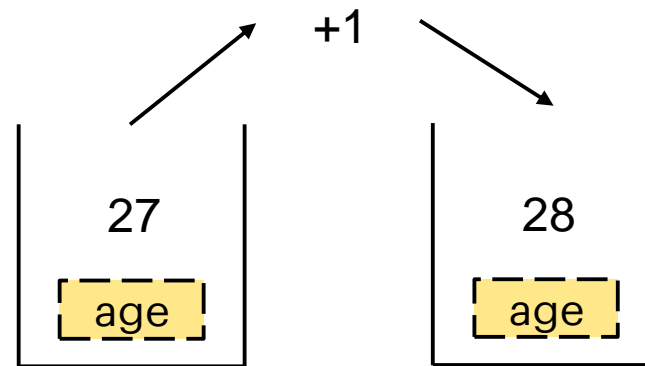


UPDATING VARIABLES

```
1 age = 27
2 name = "Lisa"
3
4 age = age + 1
5 print name, 'is', age
```

```
Lisa is 28
```

We can also change the contents of the variable. Here, we add one year to the variable `age` after Lisa's birthday.



LET'S GET TO PROGRAMMING

SEE YOU NEXT WEEK!

Homework for next week:

Finish codecademy lesson 1

Ask questions through Google Form or
Slack

