

WELCOME

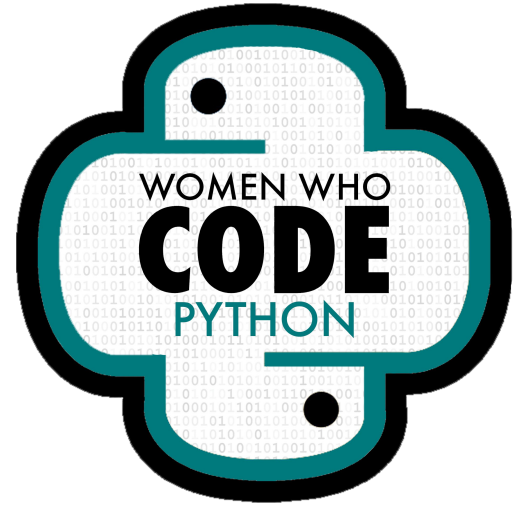
WOMEN WHO

CODE



Women Who Code Python

Python Libraries 101



OUR MISSION

Inspiring women to
excel in technology
careers.

WOMEN WHO
CODE



OUR VISION

A world where diverse women are better represented as engineers and leaders in technology.

WOMEN WHO
CODE



OUR TARGET

Engineers with two or more years of experience looking for support and resources to strengthen their influence and levelup in their careers.

WOMEN WHO
CODE



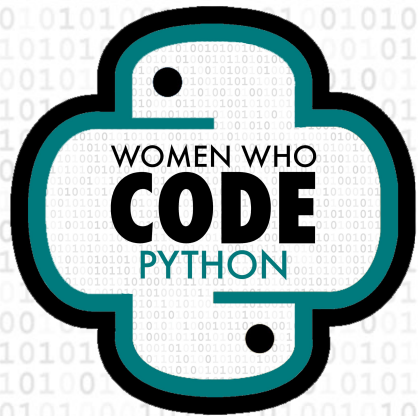
CODE OF CONDUCT

WWCode is an inclusive community, dedicated to providing an empowering experience for everyone who participates in or supports our community, regardless of gender, gender identity and expression, sexual orientation, ability, physical appearance, body size, race, ethnicity, age, religion, socioeconomic status, caste, creed, political affiliation, or preferred programming language(s).

Our events are intended to inspire women to excel in technology careers, and anyone who is there for this purpose is welcome. We do not tolerate harassment of members in any form. Our **Code of Conduct** applies to all WWCode events and online communities.

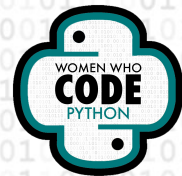
Read the full version and access our incident report form at womenwhocode.com/codeofconduct





Python Libraries 101: Python Standard Library

Session # 2





Soumya Vemuri

CSE Student



Shermaine Ang

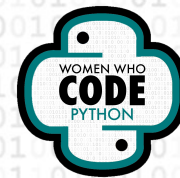
Incoming EIE Freshman at
Imperial College London



Karen Wong

Programmer at R&D
Company

Meet Your Team!



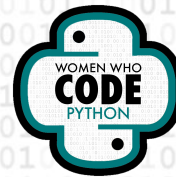


SHERMAINE

Incoming EIE Freshman

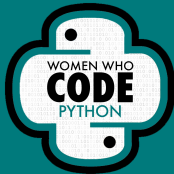
WWCode Python Volunteer

<https://www.linkedin.com/in/shermaine-ang-1348a21ab/>

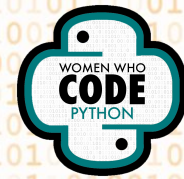


Today's Agenda

1. Recap: What is the Python Standard Library?
2. Modules we'll be exploring today
 - a. datetime
 - b. time
 - c. calendar
3. Setup and Guidelines
4. Hands-on Coding

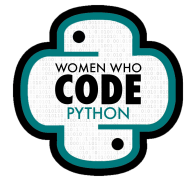


Python Libraries 101



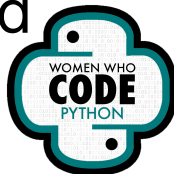
Welcome to the series!

- The series will cover popular Python libraries used everyday, over a range of fields.
- Each session will begin with a conceptual presentation followed by code walkthroughs and hands-on implementation.
- Sessions will be held [every week at 10 am EDT](#)

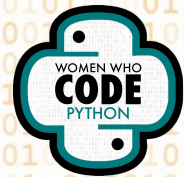


Welcome to the series!

- The series will start by exploring popular modules in the Python Standard Library such as
 - file system libraries `os` and `sys`,
 - math utilities `statistics`, `math` and `random` and
 - data type libraries `collections`, `datetime` and `calendar`.
- The python standard library will be followed by learning data visualization libraries `matplotlib`, `seaborn` and `plotly`.
- More libraries such as `tkinter`, `numpy`, `pandas`, `OpenCV` and more will be discussed further into the series!

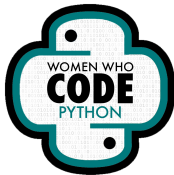


Python Standard Library



What is the Python Standard Library?

- Python offers a lot of built-in functionality through its standard library.
- Built-in modules are written in C and integrated with the Python shell.
- The standard library is a huge collection of utilities, ranging from math utilities to debugging to creating graphical user interfaces. Popularly used modules are os, sys, json, re, random, math, urllib, tkinter, datetime

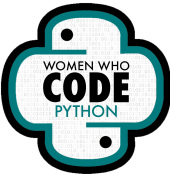


datetime



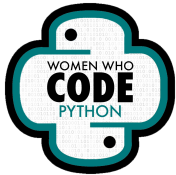
datetime Module

- The datetime module can be imported to work with the **date** as well as **time**.
- It supplies classes to work with date and time. These classes provide a number of functions to deal with dates, times and time intervals.

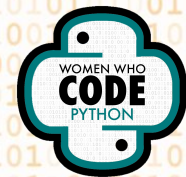


datetime Module: Functions

- `datetime.datetime.now()` returns current date and time.
- `datetime.date.today()` returns today's date
- `datetime.date(year, month, date)` returns YYYY-MM-DD
- `datetime.date.fromtimestamp(timestamp)` returns YYYY-MM-DD from timestamp
- `datetime.time(hour, minute, seconds, microseconds)` returns HH:MM:SS.MS

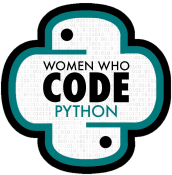


time



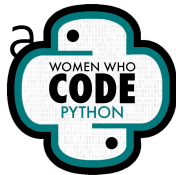
time Module

- The time module provides many ways of representing time in code, such as objects, numbers, and strings.
- It also provides functionality other than representing time, like waiting during code execution and measuring the efficiency of your code



time Module: Functions

- `time.time()` returns the number of seconds passed since epoch (Epoch is the point where the time starts, and is platform dependent. For Unix, the epoch is January 1, 1970, 00:00:00 (UTC))
- `time.ctime(seconds)` takes seconds passed since epoch as an argument and returns a string representing local time
- `time.sleep(seconds)` delays execution of the current thread for the given number of seconds
- `time.strptime(string, format)` parses a string representing a time according to a format.

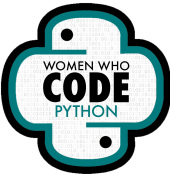


calendar



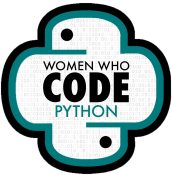
calendar Module

- This module allows you to output calendars
- It provides additional useful functions related to the calendar.
- By default, these calendars have Monday as the first day of the week, and Sunday as the last.

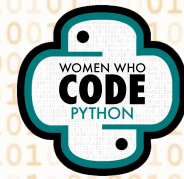


calendar Module: Functions

- `calendar.month(yyyy, mm)` displays calendar of given month of the year
- `calendar.calendar(yyyy)` displays calendar of given year
- `calendar.HTMLCalendar()`
 - This class can be used to generate HTML calendars.



QnA Time!

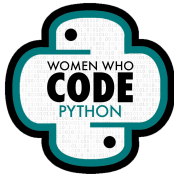


Let's Code!

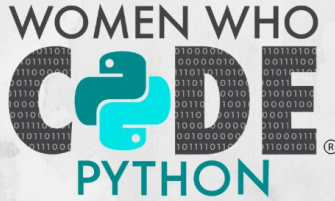


Useful Links

- Link to repository
- Python Documentation
 - datetime: <https://docs.python.org/3/library/datetime.html>
 - time: <https://docs.python.org/3/library/time.html>
 - calendar: <https://docs.python.org/3/library/calendar.html>
- Other Resources
 - <https://www.geeksforgeeks.org/time-functions-in-python-set-1-time-ctime-sleep/>
 - <https://www.geeksforgeeks.org/python-datetime-module/>
 - <https://www.geeksforgeeks.org/calendar/>



Stay Connected!



JOIN US ON SOCIAL MEDIA!



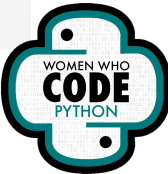
@WWCODEPYTHON

[WOMENWHOCODE.COM/PYTHON](https://www.womenwhocode.com/python)

Upcoming Events in the Series:

- Python Standard Library: collections and itertools
- Python Standard Library: random, math and statistics

.....and more!



Upcoming Events

SUN
01
AUG

  **Meet & Greet Sessions – BuddyMeUp Program Round 4**   *Featured*

📍 Online | Python | 11:00 PM – 12:00 AM +08 (UTC+0800)

Register

TUE
03
AUG

🌟 **Open Source is Better with You in It: Getting Started with Open Source** 🌟 *Featured*

📍 Online | Python | 11:30 PM – 12:30 AM +08 (UTC+0800)

Register

SAT
07
AUG

 **Python Libraries 101**  *Featured*

📍 Online | Python | 10:00 PM – 11:00 PM +08 (UTC+0800)

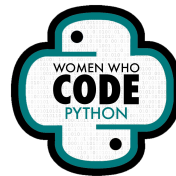
Register

FRI
13
AUG

🌟 **Beginner Python Study Group: If/Else Statements** 🌟 *Featured*

📍 Online | Python | 8:00 AM – 9:00 AM +08 (UTC+0800)

Register



WOMEN WHO

Thank You for Joining!

CODE

