

WELCOME

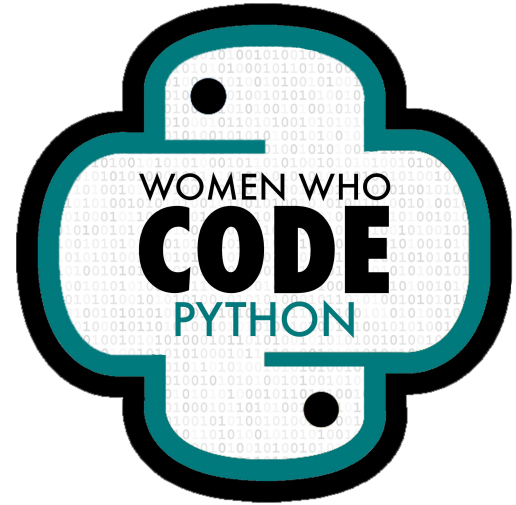
WOMEN WHO

CODE



Women Who Code Python

Python Libraries 101



OUR MISSION

Inspiring women to
excel in technology
careers.

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OUR VISION

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

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OUR TARGET

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

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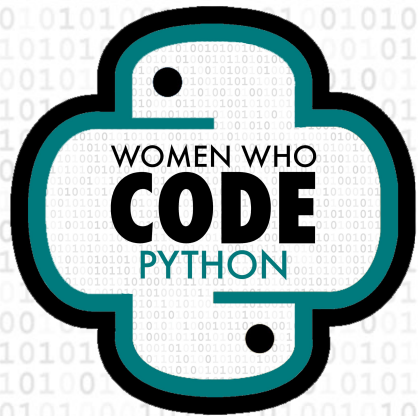
CODE OF CONDUCT

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.

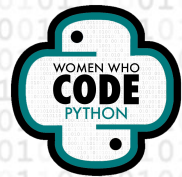
Read the full version and access our incident report form at womenwhocode.com/codeofconduct





Python Libraries 101: Python Standard Library

Session #5: Recap





Soumya Vemuri

CSE Student



Shermaine Ang

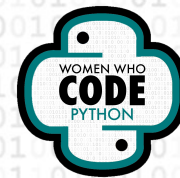
Incoming EIE Freshman at
Imperial College London



Karen Wong

Programmer at R&D
Company

Meet Your Team!





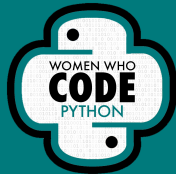
Karen Wong

Programmer at R&D Company
Lead at Women Who Code Python



Today's Agenda

1. Recap of Python Standard Libraries
2. Bonus library: re



Python Standard Library



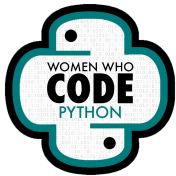
Session 1: os and sys

os module

- Functions for **operating system and directories**
- Ex: `os.getcwd()`, `os.listdir()`, `os.makedirs()` etc.

sys module

- Functions and variables to interact with Python **runtime environment**
- Ex: `sys.platform()`, `sys.path()`, `sys.argv[index]` etc.



Session 2: datetime, time and calendar

datetime module

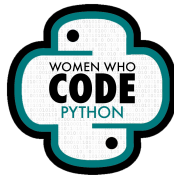
- Functions to interact with **date, times and time intervals**
- Ex: `datetime.datetime.now()`, `datetime.date.fromtimestamp`, etc.

time module

- Helps interpret time in **different data type and conversion**
- Ex: `time.time()`, `time.sleep(sleep)`, `time.strptime(string, [format])` etc.

calendar module

- Displays calendar and interacts it with supporting functions
- Ex: `calendar.calendar()`, `calendar.month(yyyy,mm)` etc.



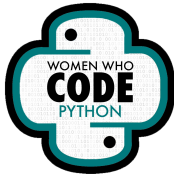
Session 3: collections and itertools

collections module

- Help building container with different datatype
- Ex: `collections.Counter()`, `collections.defaultdict()` etc.

itertools module

- Provides functions to iterate elements
- Ex: `itertools.count()`, `itertools.repeat()` etc.



Session 4: random, math and statistics

random module

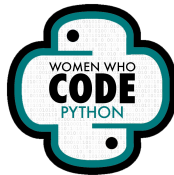
- Functions to generate random numbers
- Ex: `random.seed(n)`, `random.choice()`, `random.randint`, etc.

math module

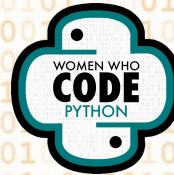
- Helps to execute mathematical tasks
- Ex: `math.exp(a)`, `math.cos(a)`, `math.degrees(a)` etc.

statistics module

- Calculate mathematical statistics of numeric data
- Ex: `statistics.stdev(list)`, `statistics.median(list)` etc.

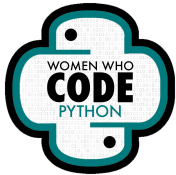


Recap Bonus: re

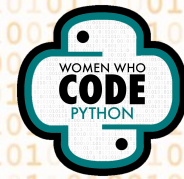


re (regular expression)

- Provides regular expression matching operations
- Also a built-in library (no extra installation required)
- Create rules to find matching patterns in a string
- Ex: `re.match()`, `re.search()`, `re.findall()`



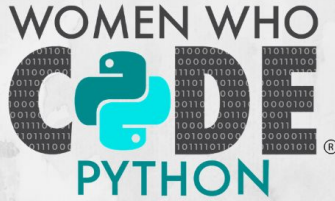
QnA Time!



Let's Code!



Stay Connected!



JOIN US ON SOCIAL MEDIA!



@WWCODEPYTHON

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

Upcoming Events

- Numpy, Pandas
- Matplotlib, Searborn, Plotly
- Tkinter



Upcoming Events

FRI
10
SEP

🌟 **Beginner Python Study Group: For Loops & While Loops** 🌟 *Featured*

📍 Online | Python | 5:30 AM - 6:30 AM IST (UTC+0530)

Register

FRI
17
SEP

🌟 **Beginner Python Study Group: Functions Revisited** 🌟 *Featured*

📍 Online | Python | 5:30 AM - 6:30 AM IST (UTC+0530)

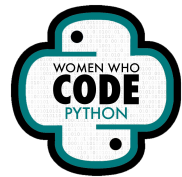
Register

SAT
25
SEP

CFP Speaker Series: Putting Together A Conference Talk: A How To Guide

📍 Online | 12:30 AM - 1:30 AM IST (UTC+0530)

Register



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Thank You for Joining!

