URL Scrapper Wikipedia

Automation script which fetch URL from Wikipedia using Beautiful Soup.

```
import os
import bs4
import requests
from sys import *

def MarvellousLinksDisplay(URL):
    res = requests.get(URL)
    print(type(res))

    soup = bs4.BeautifulSoup(res.text,'lxml')
    print(type(soup))

    links = soup.find_all('a', href = True)

    return links

def main():
    print("---- Marvellous Infosystems by Piyush Khairnar-----")

    print("Application name : " +argv[0])

    if (len(argv) == 2):
        if (argv[1] == "-h") or (argv[1] == "-H"):
            print("This Script is used to fetch links from wikipedia file")
            exit()

        if (argv[1] == "-u") or (argv[1] == "-U"):
            print("usage : ApplicationName")
            exit()

    url = "https://en.wikipedia.org/wiki/Python_(programming_language)"

    arr = MarvellousLinksDisplay(url)

    print("Links are ")

    for element in arr:
        if "#" not in element['href']:
            print(element['href'])

if __name__ == "__main__":
    main()

```

Web page of the targeted Wikipedia page

Python (programming language)

From Wikipedia, the free encyclopedia

Python is an interpreted, high-level, general-purpose programming language. Created by Guido van Rossum and first released in 1991, Python has a design philosophy that emphasizes code readability, notably using significant whitespace. It provides constructs that enable clear programming on both small and large scales.[26] Van Rossum led the language community until July 2018.[27][28]

Python is dynamically typed and garbage-collected. It supports multiple programming paradigms, including procedural, object-oriented, and functional programming. Python features a comprehensive standard library, and is referred to as "batteries included".[29]

Python interpreters are available for many operating systems. CPython, the reference implementation of Python, is open-source software[30] and has a community-based development model. Python and CPython are managed by the non-profit Python Software Foundation.

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Python

Paradigm	Multi-paradigm: functional, imperative, object-oriented, reflective
Designed by	Guido van Rossum
Developer	Python Software Foundation
First appeared	1990; 29 years ago[1]
Stable release	3.7.3 / 25 March 2019; 32 days ago[2] 2.7.16 / 3 March 2019; 54 days ago[3]
Typing discipline	Duck, dynamic, gradual (since 3.5)[4]
License	Python Software Foundation License
Filename extensions	.py, .pyc, .pyd, .pyo (prior to 3.5),[5] .pyw, .pyz (since 3.5)[6]
Website	www.python.org
Major implementations	CPython, PyPy, Stackless Python, MicroPython, CircuitPython, IronPython, Jython
Dialects	Cython, RPython
Influenced by	ABC,[7] ALGOL 68,[8] APL,[9] C,[10] C++,[11] CLU,[12] Dylan,[13] Haskell,[14] Icon,[15]

History [edit]

Main article: History of Python

Python was conceived in the late 1980s[31] by Guido van Rossum at Centrum Wiskunde & Informatica (CWI) in the Netherlands as a successor to the ABC language (itself inspired by SETL)[32], capable of exception handling and interfacing with the Amoeba operating system.[7] Its implementation began in December 1989.[33] Van Rossum's long influence on Python is reflected in the title given to him by the Python community: *Benevolent Dictator For Life* (BDFL) – a post from which he gave himself permanent vacation on July 12, 2018.[34]

Python 2.0 was released on 16 October 2000 with many major new features, including a cycle-detecting garbage collector and support for Unicode.[35]

Python 3.0 was released on 3 December 2008. It was a major revision of the language that is not completely backward-compatible.[36] Many of its major features were backported to Python 2.6.x[37] and 2.7.x version series. Releases of Python 3 include the `2to3` utility, which automates (at least partially) the translation of Python 2 code to Python 3.[38]

Python 2.7's end-of-life date was initially set at 2015 then postponed to 2020 out of concern that a large body of existing code could not easily be forward-ported to Python 3.[39][40] In January 2017, Google announced work on a Python 2.7 to Go transcompiler to improve performance under concurrent workloads.[41]

Guido van Rossum at OSCON 2006.

Features and philosophy [edit]

Python is a multi-paradigm programming language. Object-oriented programming and structured programming are fully supported, and many of its features support functional programming and aspect-oriented programming (including by metaprogramming[42] and metaobjects (magic methods)).[43] Many other paradigms are supported via extensions, including design by contract[44][45] and logic programming.[46]

Python uses dynamic typing, and a combination of reference counting and a cycle-detecting garbage collector for memory management. It also features dynamic name resolution (late binding), which binds method and variable names during program execution.

Python's design offers some support for functional programming in the Lisp tradition. It has `filter`, `map`, and `reduce` functions; list comprehensions, dictionaries, sets and generator expressions.[47] The standard library has two modules (itertools and functools) that implement functional tools borrowed from Haskell and Standard ML.[48]

The language's core philosophy is summarized in the document *The Zen of Python* (*PEP 20*), which includes aphorisms such as:[49]

- Beautiful is better than ugly
- Explicit is better than implicit
- Simple is better than complex
- Complex is better than complicated
- Readability counts

Rather than having all of its functionality built into its core, Python was designed to be highly extensible. This compact modularity has made it particularly popular as a means of adding programmable interfaces to existing applications. Van Rossum's vision of a small core language with a large standard library and easily extensible interpreter stemmed from his frustrations with ABC, which espoused the opposite approach.[31]

While offering choice in coding methodology, the Python philosophy rejects exuberant syntax (such as that of Perl) in favor of a simpler, less-cluttered grammar. As Alex Martelli put it: "To describe something as 'clever' is *not* considered a compliment in the Python culture."[50] Python's philosophy rejects the Perl "there is more than one way to do it" approach to language design in favor of

Output of above script

```
---- Marvellous Infosystems by Piyush Khairnar-----
Application name : WebScapingLinksDisplay.py
<class 'requests.models.Response'>
<class 'bs4.BeautifulSoup'>
Links are
/wiki/Wikipedia:Good_articles
/wiki/File:Python_logo_and_wordmark.svg
/wiki/Programming_paradigm
/wiki/Multi-paradigm_programming_language
/wiki/Functional_programming
/wiki/Imperative_programming
/wiki/Object-oriented_programming
/wiki/Reflective_programming
/wiki/Software_design
/wiki/Guido_van_Rossum
/wiki/Software_developer
/wiki/Python_Software_Foundation
/wiki/Software_release_life_cycle
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/wiki/Gradual_typing
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https://www.python.org/
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/wiki/Stackless_Python
/wiki/MicroPython
/wiki/CircuitPython
/wiki/IronPython
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/wiki/Cython
/wiki/RPython
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/wiki/APL_(programming_language)
/wiki/C_(programming_language)
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/wiki/CLU_(programming_language)
/wiki/Dylan_(programming_language)
/wiki/Haskell_(programming_language)
/wiki/Icon_(programming_language)
/wiki/Java_(programming_language)
/wiki/Lisp_(programming_language)
/wiki/Modula-3
/wiki/Perl
```

/wiki/Standard_ML
/wiki/Apache_Groovy
/wiki/Boo_(programming_language)
/wiki/Cobra_(programming_language)
/wiki/CoffeeScript
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/wiki/Interpreted_language
/wiki/High-level_programming_language
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/wiki/Programming_language
/wiki/Guido_van_Rossum
/wiki/Code_readability
/wiki/Off-side_rule
/wiki/Dynamic_programming_language
/wiki/Garbage_collection_(computer_science)
/wiki/Programming_paradigm
/wiki/Procedural_programming
/wiki/Object-oriented_programming
/wiki/Functional_programming
/wiki/Standard_library
/wiki/Operating_system
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/wiki/Netherlands
/wiki/ABC_(programming_language)
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/wiki/Exception_handling
/wiki/Amoeba_(operating_system)
/wiki/Benevolent_Dictator_For_Life
/wiki/Cycle_detection
/wiki/Garbage_collection_(computer_science)

/wiki/Unicode
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/wiki/There_is_more_than_one_way_to_do_it
/wiki/Premature_optimization
/wiki/CPython
/wiki/PyPy
/wiki/Just-in-time_compilation
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/wiki/NOP_(code)
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/wiki/List_(computer_science)
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/wiki/International_Standard_Book_Number
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https://www.python.org/dev/peps/pep-0483/
https://www.python.org/dev/peps/pep-0488/
https://www.python.org/dev/peps/pep-0441/
https://web.archive.org/web/20070501105422/http://www.amk.ca/python/writing/gvr-interview
http://www.amk.ca/python/writing/gvr-interview
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//citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.38.2023
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