

## Supplementary notes PYP1-MAY24

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## INTERACTIVE HELP:

```
>>> dir(__builtins__)
>>> help(str)
>>> q
```

Yields:

```
>>> dir(__builtin__)
['ArithmeticError', 'AssertionError', 'AttributeError', 'BaseException',
'BaseExceptionGroup', 'BlockingIOError', 'BrokenPipeError',
'BufferError', 'BytesWarning', 'ChildProcessError',
'ConnectionAbortedError', 'ConnectionError',
'ConnectionRefusedError', 'ConnectionResetError',
'DeprecationWarning', 'EOFError', 'Ellipsis', 'EncodingWarning',
'EnvironmentError', 'Exception', 'ExceptionGroup', 'False',
'FileExistsError', 'FileNotFoundError', 'FloatingPointError',
'FutureWarning', 'GeneratorExit', 'IOError', 'ImportError',
'ImportWarning', 'IndentationError', 'IndexError', 'InterruptedError',
'IsADirectoryError', 'KeyError', 'KeyboardInterrupt', 'LookupError',
'MemoryError', 'ModuleNotFoundError', 'NameError', 'None',
'NotADirectoryError', 'NotImplemented', 'NotImplementedError',
'OSError', 'OverflowError', 'PendingDeprecationWarning',
'PermissionError', 'ProcessLookupError', 'RecursionError',
'ReferenceError', 'ResourceWarning', 'RuntimeError',
'RuntimeWarning', 'StopAsyncIteration', 'StopIteration', 'SyntaxError',
'SyntaxWarning', 'SystemError', 'SystemExit', 'TabError', 'TimeoutError',
'True', 'TypeError', 'UnboundLocalError', 'UnicodeDecodeError',
'UnicodeEncodeError', 'UnicodeError', 'UnicodeTranslateError',
'UnicodeWarning', 'UserWarning', 'ValueError', 'Warning',
'ZeroDivisionError', '__build_class__', '__debug__', '__doc__',
'__import__', '__loader__', '__name__', '__package__', '__spec__', 'abs',
'aiter', 'all', 'anext', 'any', 'ascii', 'bin', 'bool', 'breakpoint', 'bytearray',
'bytes', 'callable', 'chr', 'classmethod', 'compile', 'complex', 'copyright',
'credits', 'delattr', 'dict', 'dir', 'divmod', 'enumerate', 'eval', 'exec', 'exit']
```



Supported container types are

```
graph TD; Containers --> Sequences; Containers --> set; Containers --> dict; Sequences --> list; Sequences --> tuple; Sequences --> str;
```

Note: Containers can hold anything and need not have homogeneous content.

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## Post course readme links

For more info on extending classes:

<https://www.geeksforgeeks.org/inheritance-and-composition-in-python/>

<https://www.geeksforgeeks.org/multiple-inheritance-in-python/>

For more info on creating custom exceptions by extending base class Exception:

<https://www.geeksforgeeks.org/user-defined-exceptions-python-examples/>

For more info on list comprehensions:

<https://www.geeksforgeeks.org/python-list-comprehension/>

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## RECOMMENDED READING:

## TOP LEVEL TRAIL STARTS:

## W3 Schools

<https://www.w3schools.com/python/>

## GeeksForGeeks

<https://www.geeksforgeeks.org/python-programming-language/?ref=lbp>

## The Python Docs

<https://www.python.org/doc/>

## RealPython

<https://realpython.com/>

## Benjamin Bennett Alexander on Twitter/X

<https://twitter.com/RealBenjizo>

## **EXAMPLE SEARCHES COMPARISON:**

Sample Docs lookup (in ascending order of complexity):

**On W3 Schools** (excellent for a start or quick knowledge check)

[https://www.w3schools.com/python/python\\_strings.asp](https://www.w3schools.com/python/python_strings.asp)

**On GeeksForGeeks** (I find them just the right level of detail while working)

<https://www.geeksforgeeks.org/python-string/>

<https://www.geeksforgeeks.org/python-string/#accessing-characters-in-python-string>

**On The official docs** (can be quite hard to read but very comprehensive)

<https://docs.python.org/3/library/string.html>

## Miscellaneous references

For the spec on operator precedence rules:

<https://docs.python.org/3/reference/expressions.html#operator-precedence>

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Happy Hacking!

Alan