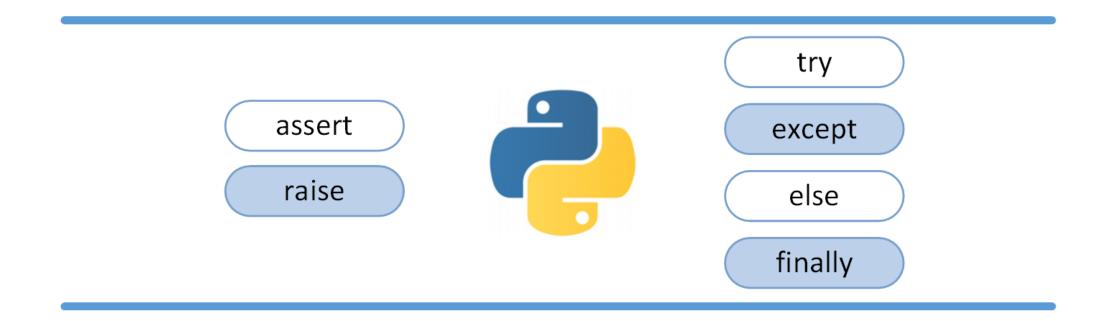




- 1. Differentiating Exceptions From Syntax Errors
- 2. Raising an Exception
- 3. Using the assert Keyword
- 4. Catching Exceptions With the try...except Block
- 5. Handling the Success Case With else
- 6. Catching a Built-in Exception
- 7. Cleaning Up After Using finally
- 8. Summary







Differentiating Exceptions From Syntax Errors

- Parsing Error: SyntaxError
- Execution Error: Exception

Raising an Exception

Use raise to force an exception:

raise



Exception



Using the assert Keyword

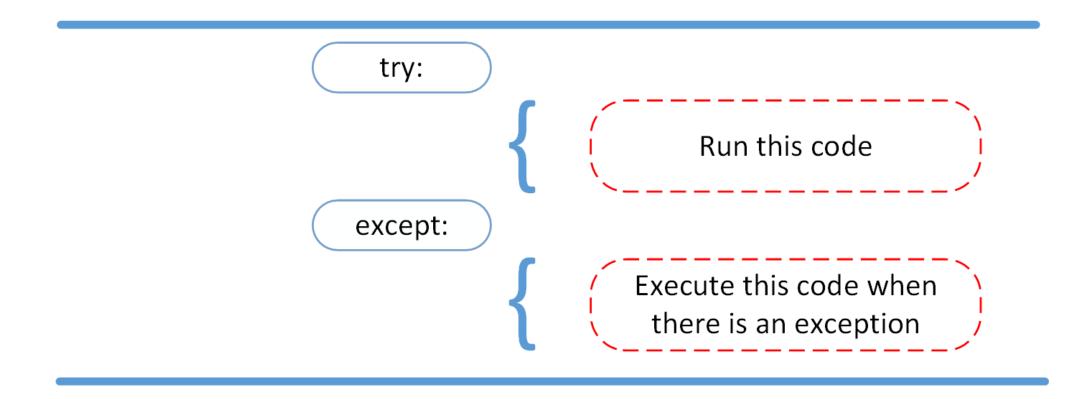
Assert that a condition is met:

assert:

Test if condition is True

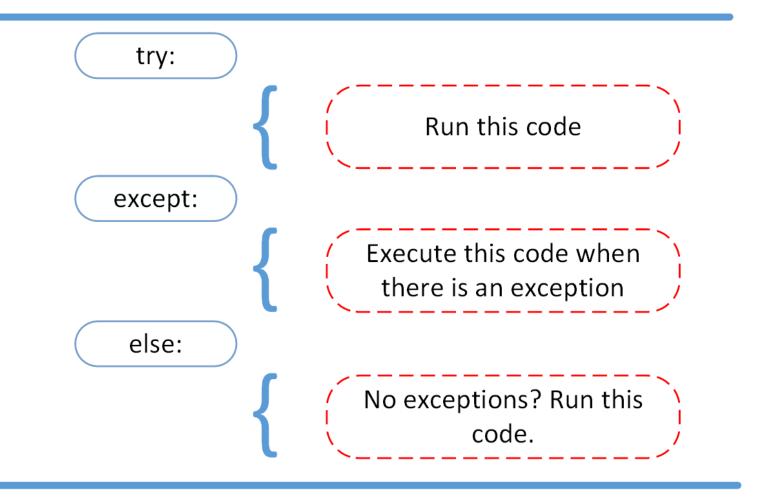


Catching Exceptions With the try...except Block





Handling the Success Case With else





Catching a Built-in Exception

FileNotFoundError

Built-in Exceptions

```
BaseException
+-- SystemExit
+-- KeyboardInterrupt
+-- GeneratorExit
+-- Exception
      +-- StopIteration
      +-- StopAsyncIteration
      +-- ArithmeticError
          +-- FloatingPointError
          +-- OverflowError
          +-- ZeroDivisionError
      +-- AssertionError
      +-- AttributeError
      +-- BufferError
      +-- EOFError
      +-- ImportError
          +-- ModuleNotFoundError
      +-- LookupError
          +-- IndexError
          +-- KeyError
      +-- MemoryError
      +-- NameError
          +-- UnboundLocalError
      +-- OSError
          +-- BlockingIOError
          +-- ChildProcessError
          +-- ConnectionError
                +-- BrokenPipeError
               +-- ConnectionAbortedError
                +-- ConnectionRefusedError
                +-- ConnectionResetError
          +-- FileExistsError
          +-- FileNotFoundError
          +-- InterruptedError
          +-- IsADirectoryError
          +-- NotADirectoryError
          +-- PermissionError
          +-- ProcessLookupError
          +-- TimeoutError
      +-- ReferenceError
```

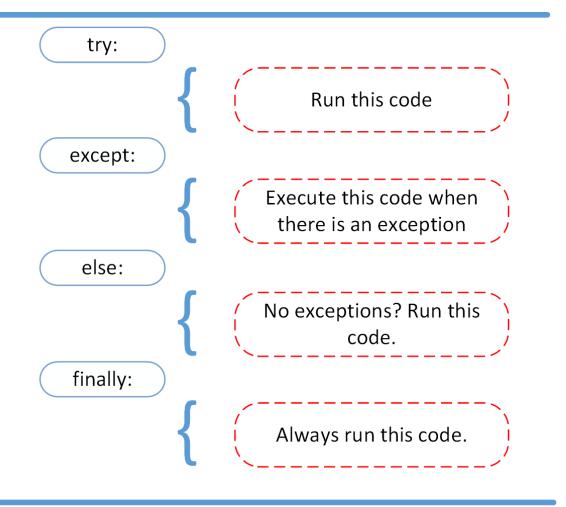
```
+-- RuntimeFrror
     +-- NotImplementedError
     +-- RecursionError
+-- SyntaxError
     +-- IndentationFrror
          +-- TabError
+-- SystemError
+-- TypeError
+-- ValueError
     +-- UnicodeError
          +-- UnicodeDecodeFrror
          +-- UnicodeEncodeError
          +-- UnicodeTranslateError
+-- Warning
     +-- DeprecationWarning
     +-- PendingDeprecationWarning
     +-- RuntimeWarning
     +-- SyntaxWarning
     +-- UserWarning
     +-- FutureWarning
     +-- ImportWarning
     +-- UnicodeWarning
     +-- BytesWarning
     +-- EncodingWarning
     +-- ResourceWarning
```



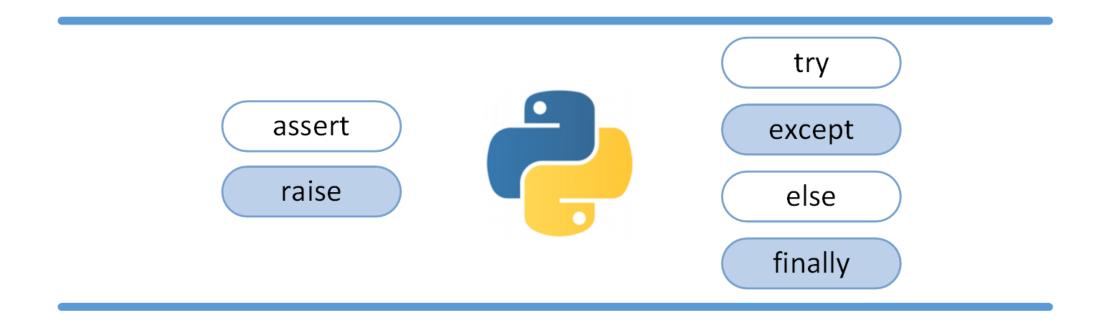
Catching a Built-in Exception

FileNotFoundError

Cleaning Up After Using finally



Summary





Summary

- 1. Differentiating Exceptions From Syntax Errors
- 2. Raising an Exception
- 3. Using the assert Keyword
- 4. Catching Exceptions With the try...except Block
- 5. Handling the Success Case With else
- 6. Catching a Built-in Exception
- 7. Cleaning Up After Using finally





