

# Skillful Python Iterables

EH 301 User Help Manual

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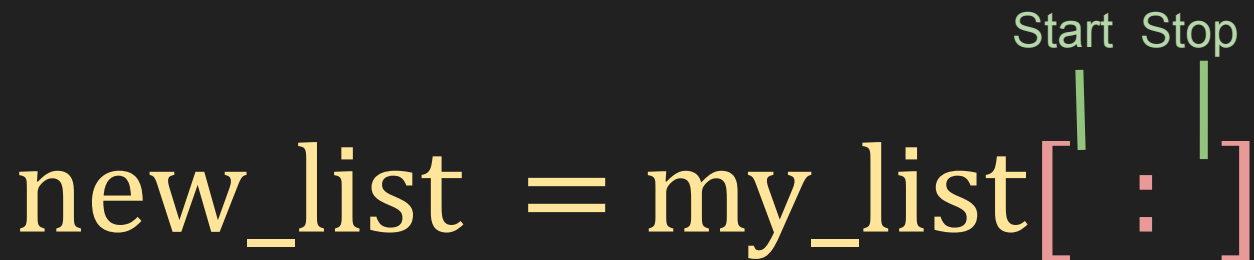
# Iterable slicing

When is iterable slicing useful?

- > removing unneeded leading or trailing elements from an iterable
- > parsing an incomplete component of an iterable
- > changing the direction or sample size of an iterable

`new_list = my_list[ : ]`

Start Stop

The diagram shows the Python list slicing syntax `new_list = my_list[ : ]`. The opening square bracket `[` is highlighted in pink. The closing square bracket `]` is also highlighted in pink. The colon `:` is highlighted in pink. Above the opening bracket, the word "Start" is written in green, with a green vertical line pointing down to the bracket. Above the closing bracket, the word "Stop" is written in green, with a green vertical line pointing down to the bracket.

# Inline conditional statements

When are inline conditional statements useful?

- > a new variable's value depends on the value of other variables
- > boolean algebra and other logical transformations

`grade = grade + 20 if bonus else 100`