

PYTHON

SECTION FIVE

Introduction to Python | Text Strings | Pragmatic Agility

STRING

- Text
- 'Hello this is a string'
- "This is a string two"
- '2'
- "3"
- Careful with numbers that are strings

CREATING

- Create with single quotes
- Create with double quotes
- Create with str()
 - `str(1.25)`

EXTRA

- Escape with '\'
 - `'the \nend'`
- Combine with '+'
 - `'please' + 'help'`
- Duplicate with '*'
 - `'a'*4 -> 'aaaa'`
- Single Characters via '[]'
 - `test[0] -> 't'`

KEY CONCEPTS

Special characters

Tab, new lines, and empty space are 'special' characters in the sense that they are often there but you can not see them. `\n` is a new line, `\t` is a tab, and of course `' '` is empty space. You have to escape a special character with a `'\'` otherwise the special character is treated as a normal character within a string

Immutable

The string type is immutable. Changes to the data object value causes a new data object to be created

Substring Slice

Get a substring from a string via slicing. `'test'[0:2] -> 'te'`

String splitting

The split function creates a list by splitting a string into a list of items on a delimiter. `' '` is the default `'t_n_t'.split() -> [t,n,t]`

Combine function

Join a split string with the join function. `','.join([one,two]) -> 'one,two'`

Replace function

Replace a target string with a replacement string. `'the cow'.replace('cow', 'dog') -> 'the dog'`

Strip Function

Remove the following characters from a string (`' '`, `'\t'`, `'\n'`)