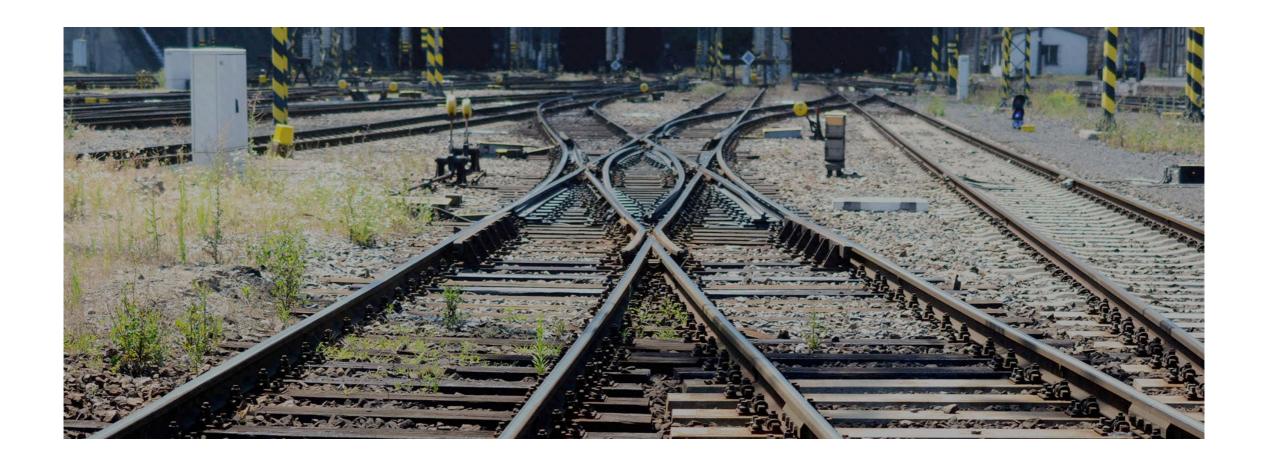# CSCI 141

Scott Wehrwein

The `split` and `join` String methods

Goals

- Know how to use the convenient string methods `split` and `join`

String's `split` method

string.split(separator_string)

Splits the string into a list on a given separator, or all whitespace by default. It "eats" the separators.

demo

String's split method

string.split(separator_string)

Splits the string into a list on a given separator, or all whitespace by default. It "eats" the separators.

```python
a = "This is a sentence."
b = "4.5, 6.8, 82.3"
c = """This  is a string    with \t weird

whitespace"""
a.split() # on all whitespace
c.split() # on all whitespace
c.split(" ") # on spaces only
b.split() # commas remain
b.split(",") # spaces remain
b.split(", ") # just the values
```

String's `join` method

string`.`join`(`*list_of_strings*`)`

Joins its argument's elements into a single string, separated by the string that `join` was called on.

`"_".join(["a", "b", "c"]) => "a_b_c"`

demo

String's join method

$$string.join(list\_of\_strings)$$

Joins its argument's elements into a single string, separated by the string that join was called on.

```python
"_".join(["a", "b", "c"]) => "a_b_c"


a = [1, 2, 3, 4]
" ".join(a) # error - not a list of  strings
b = []
for v in a:
    b.append(str(v)) # convert a's values to str


" ".join(b) # => "1 2 3 4"
" one thousand ".join(b)
# => "1 one thousand 2 one thousand 3 one thousand 4
```