

SECTION 3: PYTHON OBJECT AND DATA STRUCTURE BASICS, 2 hrs 2 mins, 33 parts

• 12/36 String Properties and Methods

- -> string properties and methods
- -> in a JN
 - Immutability of strings
 - **im-mute**
 - **you can't mutate / change the string**
 - **e.g -> "Sam"[0] = "P" <- this isn't allowed, you can't just set one letter in a name equal to another one**
 - **adding strings together**
 - -> you can merge two strings together, aka concatenation
 - `name[1:] <-` this returns 'am', from the first character to the last
 - `'P' + 'am'` returns Pam
 - -> **concatenating strings is adding them together**
 - -> **you can do this in loops `x=x+'text'`**
 - -> **and allows you to put the strings together**
 - -> **you can add strings, but a string and a number gets an error**
 - **but you can do `'2' + '3'` for example**
- **timing strings together**
 - `letter = 'z'`
 - then `letter * 10` -> returns 10 z's
- **built in string methods**
 - -> functions which are inside the object
 - -> `x = 'Hello World'`
 - **`x. <-` then click tab -> and there is a list of all the different methods which are available**
 - `name_of_string.upper()` <- returns the entire thing in upper case
 - `x.upper <-` this returns -> <function str.upper> -> in other words, you need `()`'s or it returns an error message
 - -> there is also a `.lower()` method
 - -> **`x.split()`**
 - `name_of_string.split()` <- it splits into ['Hello', 'World']
 - -> **if `name_of_string` is a sentence, then it returns a list of words in the sentence**
 - -> **in another example, it's `name_of_string.split('i')` -> it returns the same thing just without the i's (it's splitting on it)**
 - -> `print('hello')`