Agenda

- Strings in Python
- Numeric Representation of Strings: ASCII
- String Formatting and Manipulation
- String Methods
- Palindrome
- Mutability and Immutability

Strings in Python

- A Sequence of Characters

* Ways to create String:
  1. '' ''
  2. @ @
  3. ''' ''' (Multiline String)
     """ """ or ''' '''

TypeCast : str(OtherDataType)

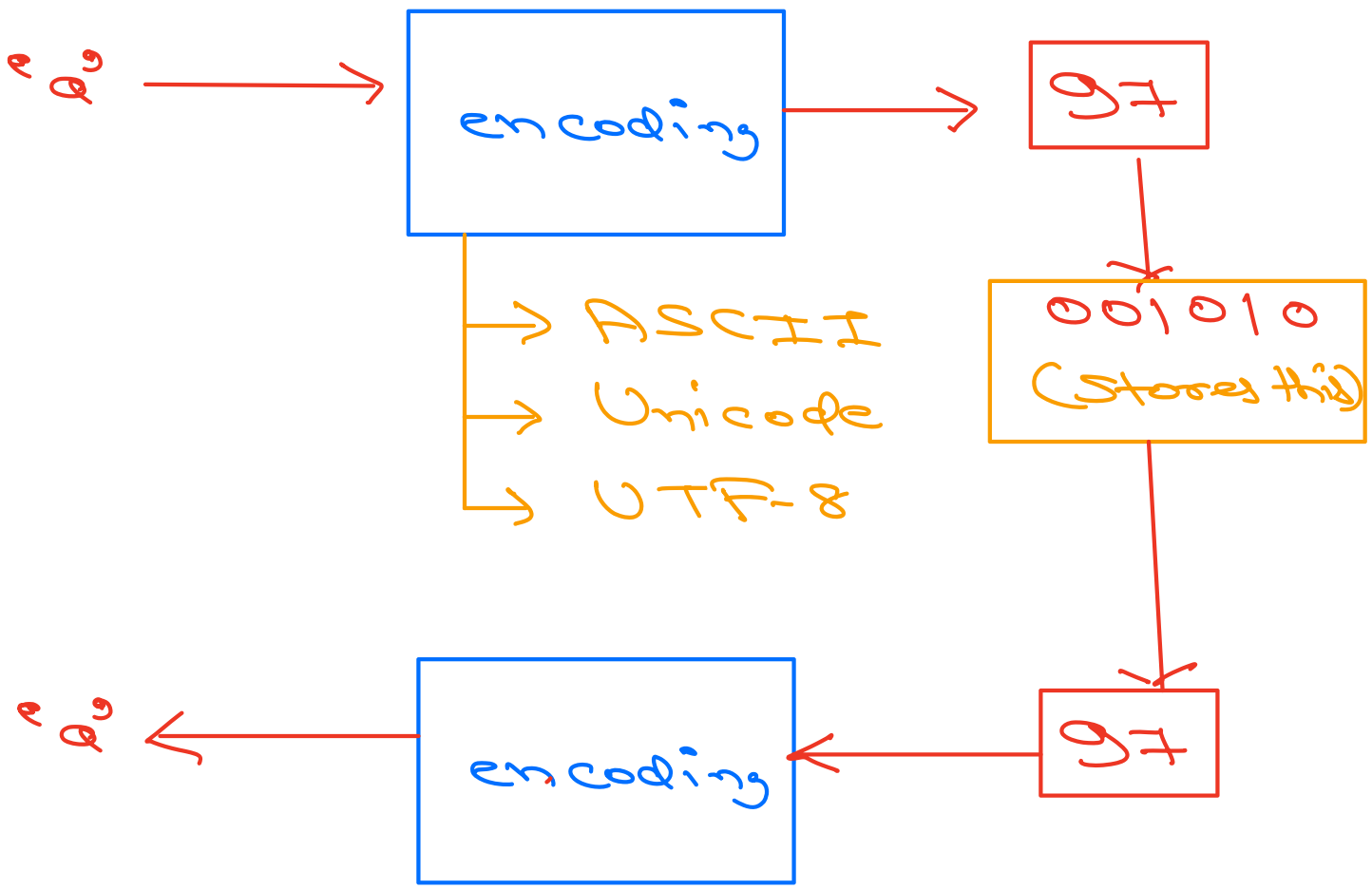
a = 'a'

↑ Storing 'a'

Variable

Numeric Representation of Strings

- Computer Only Understand Binary → (0, 1)



'a' : 97	97 : 'a'
'b' : 98	98 : 'b'
..	
..	
..	
..	
..	

11 lakh + UTF-8

- All Str encoding algos are Tables that map char to Num and Vice-Versa

String Manipulation

- str1 + str2 → str1str2
- str1 * 3 → str1str1str1
- ① str1 > str2 → F
  ② str1 > str2 → T

Lexicographical Order

String Formatting

* String Formatting is used for combining Variable with String

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Pending: Mutability vs Immutability

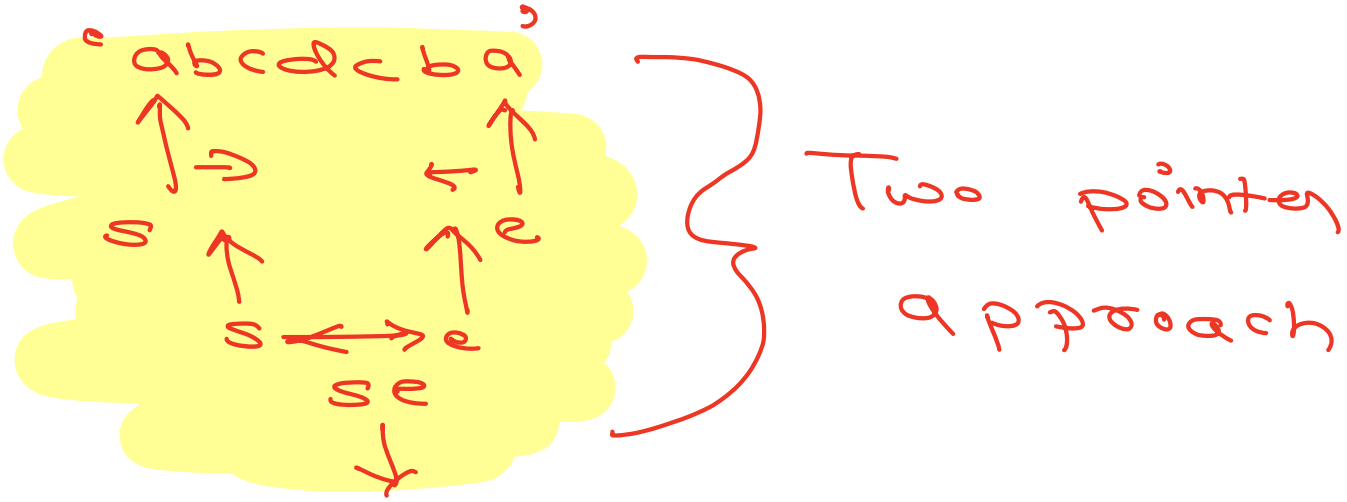
Mutables in Python	Immutables
List ✓	Everything else
Set	
Dictionary	

Str1 = abcdcba

Str1[:: -1] (Copy: extra space)

Str1 == Str1[:: -1]

(Comparison will by char by char)



Q:3 Inverse Array

A = [2, 0, 1]

same-size → [1, 2, 0]

new_list = [0, 0, 0]

index y element → index()

new_list[element] = index y element