

list & string

Indexing 0, 1, 2, ..., n-1

waitlist[0]

waitlist[3]

waitlist[-1]

for lists

waitlist[3] = 'George'

Slicing

waitlist[start:stop]

waitlist[:stop]

waitlist[start:]

waitlist[start:stop:step]

Concatenation & multiplication

data A + data B

data A * k

'Ho' * 3

[0] * 10

Arithmetic Comparisons

a == b , != , < , <= , > , >=

Literals

3

int

3.14

float

'Hello'
"Hello"

} str

[]

[3, 2, 8]

['hello', 'goodbye']

} list

Other ways to create instances

range(stop)

range(start, stop)

} similar indexing as
when slicing

Non Default Constructors & Type Conversion

list('purple')

list(outerSeq)

str(k)

or numeric k

int('25')

list, tuple, str

mutable vs. immutable

Other str methods (see pp. 56-57)

- Some return info about the string
- Some generate a new string instance
- Conversion between strings/lists
(join, split)

Numeric types

Operators +, -, *, /, //, % ~~**~~
division exp