

tuples
lists
dictionaries

tuples

ordered sequence of elements

immutable

represented by parenthesis

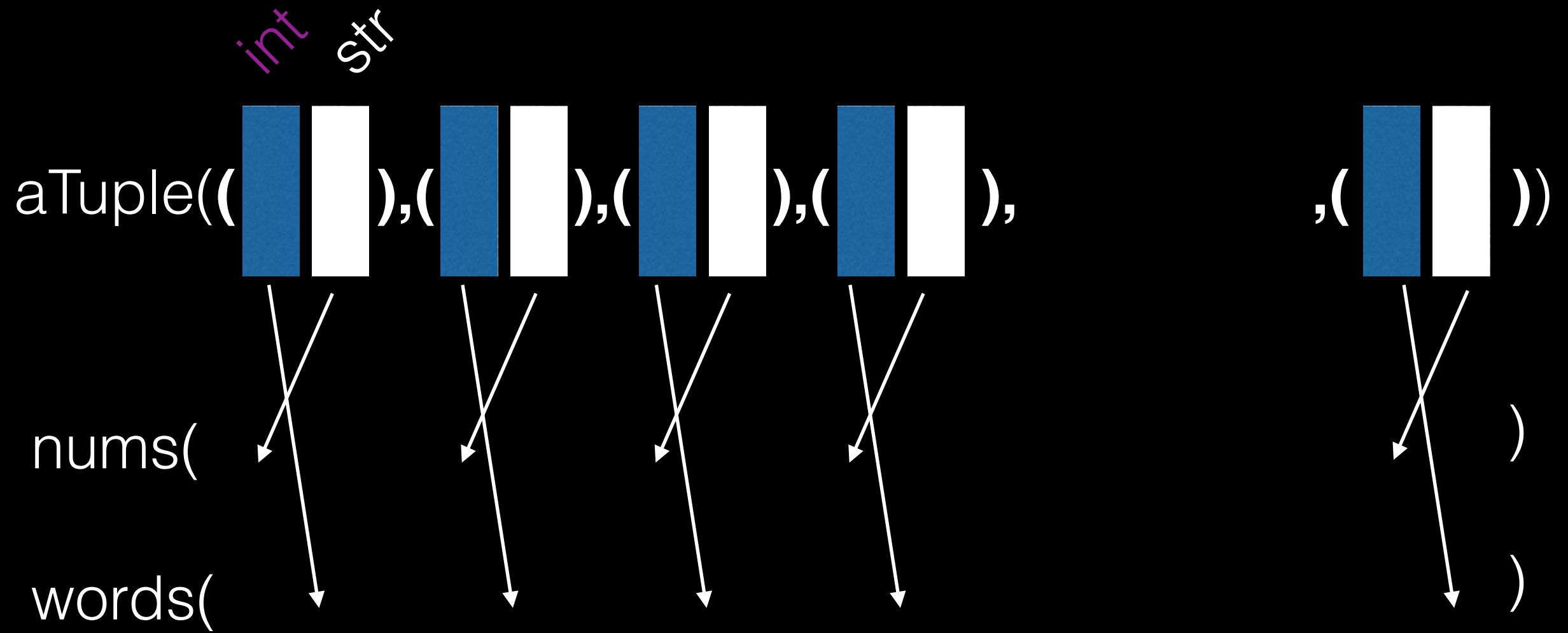
tuples

ordered sequence of elements

immutable

represented by parenthesis

iterable



list

ordered sequence of elements

mutable

represented by square brackets

memory

|



2,1,3

5,1,3

list

ordered sequence of elements

mutable

represented by square brackets

iterable

standard operations on lists and tuples

lists

append

extend

pop

remove

join

sorted

sort

reverse

standard operations on tuples

`range(5)` - equivalent to tuple `(0,1,2,3,4)`

`range(2, 6)` - equivalent to tuple `(2,3,4,5)`

`range(5, 2, -1)` - equivalent to tuple `(5,4,3)`

```
for i in range(5):  
    <expression>
```

```
for i in (0,1,2,3,4):  
    <expression>
```

Mutations, Aliasing, Cloning

lists

are mutable

behave differently than immutable types

is an object in memory

variable name points to object

any variable pointing to that object is effected

keep in mind side effects



Justin Drew Bieber
Justin Bieber
JB
Bieber
The Bieb
JBeebs

attributes: singer, rich, troublemaker



cool —————> blue, green, grey

chill —————> blue, green, grey

cool → blue,green,gre

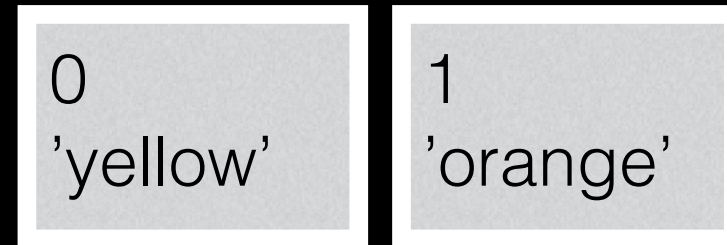
chill → blue,green,gre

Frames

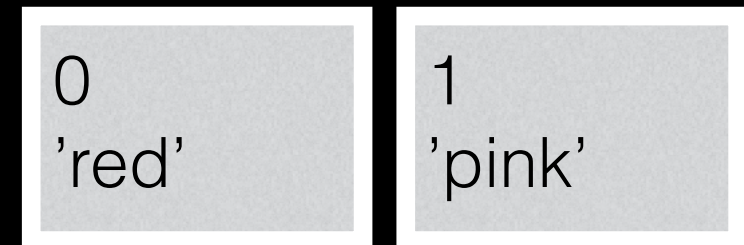


Objects

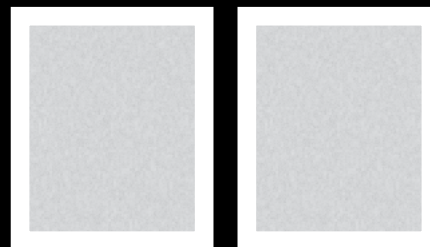
list



list



list



Mutations, Iterations

BREAK