Lists (Revisited)

Lists typically contain objects which all have the same type

Ex. a list of strings

Lists (in Python) can contain multiple types

Ex. ["title", "artist", 45.0] is a list containing two strings and a float

Lists can also contain other lists!

Ex. [["song1", "artist1", 45.0], ["song2", "artist2", 12.0]]

Lists of lists (lol)

How can we use indexing to get a value in a list of lists?

Ex. Get "artist1" out of songs = [["song1", "artist1", 45.0], ["song2", "artist2", 12.0]]

We want the 2nd item from the first list (recall: indexing starts at 0!)

- -> songs[0] returns the first list
- -> songs[0][1] returns the second item from the first list

How can we output all the values songs? Use a nested for loop!

Example: print a list of lists containing the numbers 1-9!

```
lol.py — ~/CS21/cs21-devel/examples/inclass/w07 — Atom
File Edit View Selection Find Packages Help
     Print out the items in this list using a nested for loop
       $ python3 lol.py
     def main():
         lol = [[1,2],[3,4],[5,6],[7,8,9]]
         for i in range(len(lol)):
     main()
```