CSCA08 FALL 2017

Week 7 - Sets & Dictionaries

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ADMIN

- No practical sessions this Friday
- A1

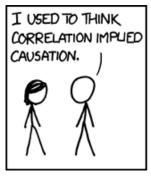
NEW DATA TYPE: TUPLES

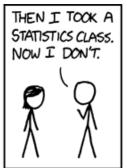
- Tuple
 - Like an immutable list
 - e.g., my_tuple = (1, 2, 3)
 - Useful when we want to group data together
 - Nice for assignment statements

NEW DATA TYPE: SETS

- $my_set = \{1, 2, 3\}$
- Like a list: another mutable data type!
- Unordered
 - (Actually there is a way of knowing the order, we're just not telling you what it is...)
- An element is either in the set or it's not, no count
- Easy/efficient to check membership

BREAK







DICTIONARIES

- Lists/Tuples/Strings are ordered
- Dictionaries are mapped
 - Instead of accessing data in left-to-right order, we have keys
 - Actual data is (for our purposes) unordered
- e.g., key1 maps to data1, key2 maps to data2
 - my_dictionary = {key1:data1, key2:data2, ..., keyn:datan}
- Think of them like sets, but instead of the keys just being in the set or not, they now map to a value