dictionaries.py -- sample uses of dictionaries

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Python's "dictionaries" are associative arrays (like Perl's "hashes").
You can think of them as arrays whose indices can be (almost) any object, not just integers starting at 0. Dictionaries are also referred to as "mapping types" in some of the Python documentation.

# Initialize a dictionary.
dictionary = {'goat' : 'domestic', 'moose' : 'wild', 'kudu' : 'wild', 'emu' : 'weird'}

dl It's cool that you can print(a dictionary so easily.
print(dictionary)

# Iterating over the (key, value) pairs in a dictionary is a snap.
for key in dictionary:
    print('{0} => {1}'.format(key, dictionary[key]))

# Iterate over the keys in alphabetical order.
print(dictionary.keys())
sorted_keys = dictionary.keys()
sorted_keys = sorted(sorted_keys)
for key in sorted_keys:
    print('{0} => {1}'.format(key, dictionary[key]))

# Test for the presence of a given key using "in".
animal = input('Animal, please: ')  
if animal in dictionary:
    print('The {0} is {1}'.format(animal, dictionary[animal]))
else:
    print('The {0} is not in the dictionary.'.format(animal))

# Delete a (key, value) pair via the key.
del dictionary['kudu']
print(dictionary)

# Go to https://docs.python.org/3/library/stdtypes.html#typesmapping
# and experiment with some of the operations described there.