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# Why Python is Great: Namedtuples
                                              # The get() method on dicts
# Using namedtuple is way shorter than
                                              # and its "default" argument
# defining a class manually:
>>> from collections import namedtuple
                                             name_for_userid = {
>>> Car = namedtuple('Car', 'color
                                                  382: "Alice",
mileage')
                                                  590: "Bob",
                                                  951: "Dilbert",
# Our new "Car" class works as expected:
>>> my_car = Car('red', 3812.4)
>>> my_car.color
                                              def greeting(userid):
'red'
                                                  return "Hi %s!" %
>>> my_car.mileage
                                              name for userid.get(userid, "there")
3812.4
                                              >>> greeting(382)
                                              "Hi Alice!"
# We get a nice string repr for free:
>>> my_car
Car(color='red' , mileage=3812.4)
                                              >>> greeting(333333)
                                              "Hi there!"
# Like tuples, namedtuples are immutable:
>>> my_car.color = 'blue'
AttributeError: "can't set attribute"
# How to sort a Python dict by value
                                              # Different ways to test multiple
# (== get a representation sorted by
                                              # flags at once in Python
value)
                                              x, y, z = 0, 1, 0
>>> xs = { 'a': 4, 'b': 3, 'c': 2, 'd': 1}
                                              if x == 1 or y == 1 or z == 1:
                                                 print('passed')
>>> sorted(xs.items(), key=lambda x: x[1])
[('d', 1), ('c', 2), ('b', 3), ('a', 4)]
                                              if 1 in (x, y, z):
                                                 print('passed')
# Or:
                                              # These only test for truthiness:
>>> import operator
                                              if x or y or z:
>>> sorted(xs.items(),
                                                 print('passed')
key=operator.itemgetter(1))
[('d', 1), ('c', 2), ('b', 3), ('a', 4)]
                                              if any((x, y, z)):
                                                 print('passed')
# How to merge two dictionaries
                                              # In Python 2.x you could
# in Python 3.5+
                                              # use this:
                                              >>> z = dict(x, **y)
>>> x = {'a': 1, 'b': 2}
                                              >>> z
>>> y = \{ 'b' : 3, 'c' : 4 \}
                                              {'a': 1, 'c': 4, 'b': 3}
>>> z = \{ **x, **y \}
                                              # In these examples, Python merges
                                              dictionary keys
>>> z
                                              # in the order listed in the expression,
{'c': 4, 'a': 1, 'b': 3}
                                              overwriting
                                              # duplicates from left to right.
```