UNPACKING ARGUMENTS

Python Programming — Auburn University

UNPACKING LIST AS POSITIONAL ARGUMENTS

- Sometimes we end up with the collection of positional arguments in a list.
- Python makes it easy to "unpack" that list into a collection of arguments:

```
def f(x, y): return 2*x-y

values = [3, 2]

print(f(*values))  # x = 3, y = 2, prints 4
```

This is a nice feature but don't put your arguments in a list just to use it:)

UNPACKING CONTINUED

You can combine multiple unpacked lists and normal positional arguments:

```
def f(a, b, c, d, e, f):
    return a+b+c+d+e+f

val1 = [5, 3, 2]
val2 = [4, 22]
print(f(*val1, 9, *val2)) # prints 45
```

UNPACKING KEYWORD ARGUMENTS

- Sometimes we end up with arguments values in a dictionary.
- Python makes it easy to "unpack" a dictionary into keyword arguments:

```
def f(x, y): return 2*x-y

values = {"y": 2, "x": 3}
print(f(**values)) # x = 3, y = 2, prints 4
```

Note * (list-based positional unpacking) vs ** (dictionary-based keyword unpacking)

UNPACKING KEYWORD ARGS CONTINUED

- Unpacked keyword arguments can be combined with positional arguments
 - but the positional arguments must proceed all unpacked keyword arguments
- Unpackaged keyword arguments can be combined with other unpacked keyword arguments.
- Examples to follow...

COMBINING WITH POSITIONAL ARGUMENTS:

