

# Dictionaries

(Spring 2020 March 16th Lecture 20)

1. Consider the following dictionary:

```
color_code = {'red':    '#FF0000',
              'green':  '#00FF00',
              'blue':   '#0000FF'}
```

What will be printed for the following expressions? If an expression generates an error write "error".

Expression	Value
<code>color_code['red']</code>	
<code>color_code['black']</code>	
<code>color_code['#00FF00']</code>	
<code>color_code[2]</code>	

2. Consider the following dictionary:

```
person = {}
person['name'] = 'Adalbert Gerald Soosai Raj'
person['age'] = 30
person['isAlive'] = True
person['phone'] = [
    {'type': 'office', 'number': '608-123-4567'},
    {'type': 'home', 'number': '608-987-6543'}
]
person['address'] = {'street': '1210 West Dayton Street',
                    'city': 'Madison', 'state': 'WI', 'zip': 53706}
```

What is the **type** (int, float, bool, str, list, dict) of the following expressions?

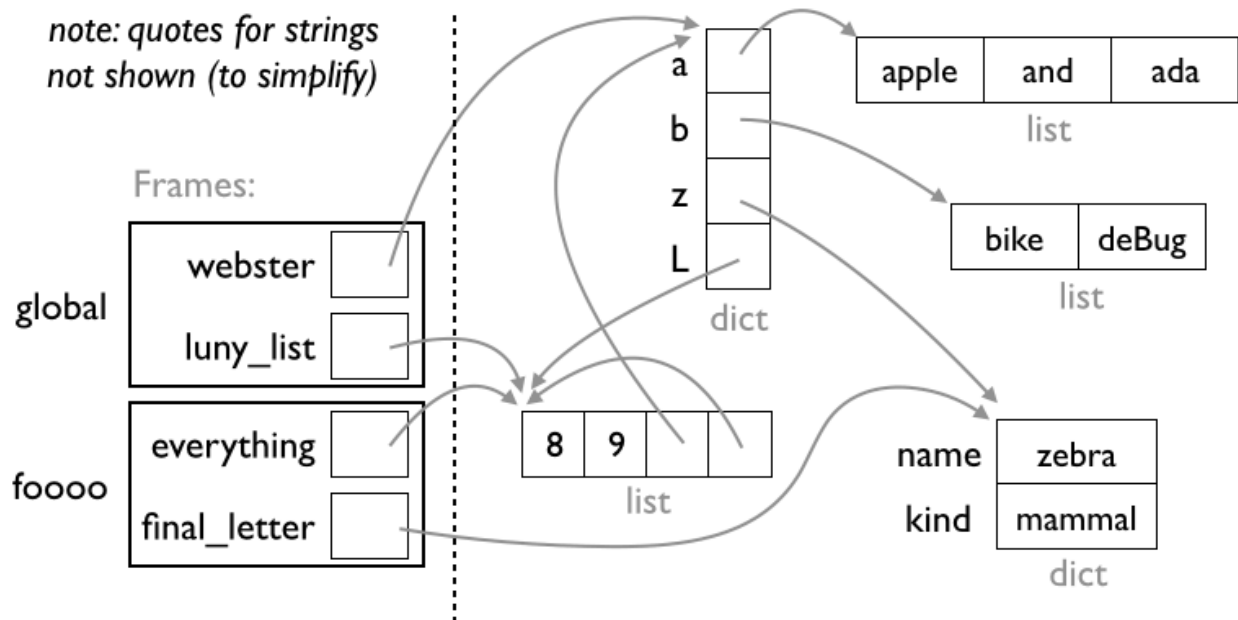
Expression	Type	Expression	Type
<code>person</code>		<code>person['isAlive']</code>	
<code>person['name']</code>		<code>person['phone']</code>	
<code>person['age']</code>		<code>person['address']</code>	

3. For this wacky code, what is printed if we replace **????** in each case (use diagram)?

```
webster = {
    "a": ["apple", "and", "ada"],
    "b": ["bike", "deBug"],
    "z": {"name": "zebra", "kind": "mammal"}
}
luny_list = [8, 9, webster]
luny_list.append(luny_list) # what????
webster["L"] = luny_list
```

```
def foooo(everything):
    final_letter = everything[2]["z"]
    print(????)
```

```
foooo(luny_list)
```



????	result	????	result
luny_list[1]		luny_list[3][1]	
webster["a"][-1]		everything[3][3][3][2]["z"]["kind"]	
webster["z"]["name"]		final_letter["name"][-1]	
webster["L"][1]		luny_list[3][-1][3][-1][3][-1][3][-1][0]	
luny_list[2]["b"][1]		webster["L"][2]["L"][2]["L"][2]["L"][1]	