1 Administrative Topics

- No quiz this Friday.
- I am grading proj 5 afterall. I will do my best to grade it by Fri, but that may not happen. I will send emails this time.

2 Project 6

In Section A, we developed and animated a car that bounced up and down and moved forward. We wrote the files car.py and carscene.py.

In Section B, we developed a simple car and a stop sign, but focussed most of our attention on coordinating the car and stop sign (well, stop light, actually) so that the car stopped when the stop sign turned on. We did this by putting all of the logic into the scene’s animate function. We wrote the files stopsign.py, boxcar.py, and carstopScene.py.
3 Python Features

3.1 Default parameter values

In Python, it is possible to assign a default value to a parameter in a function definition. That parameter then becomes optional for the caller.

For example, consider the following function:

```python
def printString( a = 'hi' )
    print a
```

If you call it

```python
printString()
```

the output will be

```plaintext
hi
```

If you call it

```python
printString('blah')
```

the output will be

```plaintext
blah
```

We used this feature to add an optional color parameter for the carInit function. This is a wonderful feature because it increases the flexibility of the function, but doesn’t force the user to supply too many parameters. If the user is happy with the default color, then there is no need to supply a color.

3.2 Incrementing

The operation

```python
cnt = cnt + 1
```

is so frequently used in Python, that there is a special increment operator:

```python
cnt += 1
```
Both lines of code are equivalent.

Note that

\[ \text{idx} += 2 \]

is also legal.