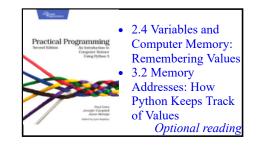
Visualizing Assignment Statements

On the Resources page is a link to a Python Visualizer that follows the model we use to draw pictures of computer memory.

Consider this code:

```
x = 1
y = x + 2
x = 7
```



When we trace this in the visualizer and click button Forward twice, this is the result:



Clicking Forward once more results in this:



Notice that y's value did not change during this step.

Here is a <u>link to the Python Visualizer</u> containing this code so that you can explore this yourself. We strongly encourage you to step forward and backward through this program until you understand every step of execution.

Jennifer Campbell • Paul Gries
University of Toronto