What Else Can a Turtle Do?

How do we know all of the things that we can do with a turtle or Screen? The version of Python that we are using is Python 3. You can find documentation for Python at http://docs.python.org/3/ (http://docs.python.org/3/). You can see all the things that turtles know how to do at http://docs.python.org/3/library/turtle.html (http://docs.python.org/3/library/turtle.html) In the example below, we show just show a couple of new things and have only commented those lines that are different from the previous examples.

```
1 from turtle import *
2 canvas = Screen()
3 canvas.setup(400,200)
4 canvas.bgcolor("yellow")
                                   # set the background color for the canvas
5 tess = Turtle()
6 tess.color("blue")
                                    # set the width of the turtle's pen
7 tess.pensize(5)
9 tess.forward(50)
10 tess.left(120)
11 tess.forward(50)
12 tess.penup()
                                    # pick up the pen (don't draw when you move
13 tess.goto(10,10)
                                    # go to a x and y location
14 tess.pendown()
                                    # put the pen down (draw again)
15 tess.forward(30)
16
17 canvas.exitonclick()
                                    # wait for a user click on the canvas
18
```

ActiveCode: 1 (a 5)

Run
Save Load

The last line, <code>canvas.exitonclick()</code> , will close the window where the turtle has been drawing when the user clicks in the window. Go ahead and try it. Click in the window that displays the results of the program above and it should close.

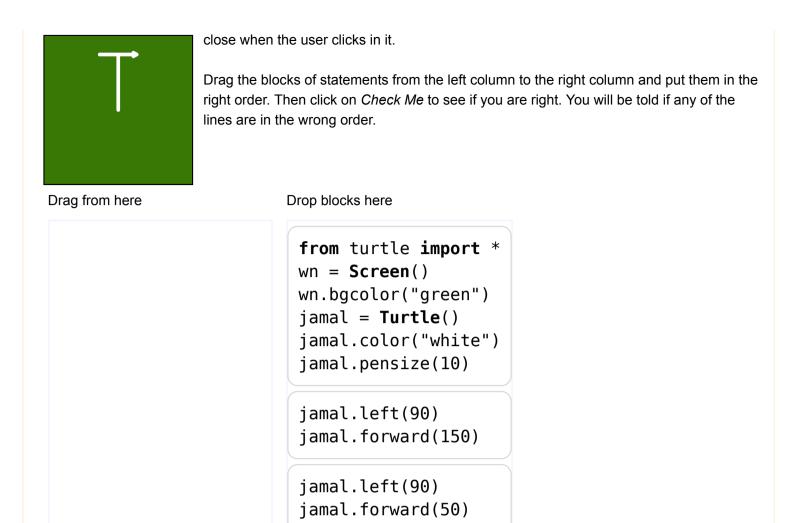
Check your understanding

trl-1: Where is the point (0,0) on the canvas (screen) that the turtle is drawing on?

Check Me	Compare Ma
Check Me	Compare Me
Correct!! The height.	e point (0,0) is the center of the drawing canvas. It is at half the width and half the
rl-2: Which of	the following puts the pen down so that the turtle can draw again?
a) tess.penu	· ·
b) tess.goto	
c) tess.pend	iown()
Check Me	Compare Me
Correct!! This	s puts the pen down so that the turtle will draw when it moves.
rL3: How do y	ou tell the canvas window to close when the user clicks on it?
-	etup(400,200)
b) canvas.b	gcolor("yellow")
c) canvas.e	xitonclick()
Check Me	Compare Me
Correct!! This	s tells the program to stop when the user clicks on the canvas. It also closes the canva

Mixed up programs

trl-4: The following program uses a turtle to draw a capital T in white on a green background as shown to the left, but the lines are mixed up. The program should do all necessary set-up, create the turtle, and set the pen size to 10. After that the turtle should turn to face north, draw a line that is 150 pixels long, turn to face west, and draw a line that is 50 pixels long. Next, the turtle should turn 180 degrees and draw a line that is 100 pixels long. Finally, set the window to



jamal.right(180)
jamal.forward(100)

wn.exitonclick()

Check Me

Perfect!

Reset

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