

Turtle Graphics Assignment

Due Thursday September 24th

You will turn in your house, the shapes on Tuesday September 15th's worksheet and one more activity below. This will give me an opportunity to look over your code, make comments and see where everyone is. Here is how I will grade:

house.py

- I want to see a fair amount of detail in the picture (door, windows, for example) to demonstrate you have played around and challenged yourself
- I want to see functions grouping together related elements
- I want to see an attempt at making the house scalable using parameters

shapes.py

- I want to see each shape in its own function
- I want to see a good faith effort at each of the activities
- I want to see some creativity – cool colors, composite figures

letter.py

- I want to see your letter in a function
- I want to see you exploring different embellishments

Activity: Letter

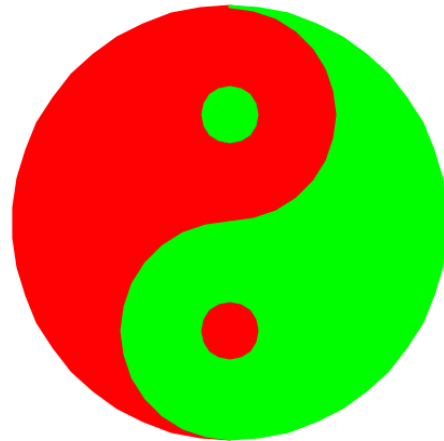
Write a function that displays the first letter of your name in a bubble font. Decorate with lots of cool geometric shapes and explore new turtle commands such as:

- `bgpic(<filename>)` – sets the background to the contents of a file. The file must be a GIF image in the same directory as `letter.py`
- `write(<text>, align=<alignment>, font=, <size>, <decoration>)` – writes out text. This function is a little different than others we have seen. Look at this example to see how to call it:
 - `write("Hello, World!", align="center", font=("Courier", 14, "bold"))`
- `shape(<shape>)` – by default, the following shapes are available: “arrow”, “turtle”, “circle”, “square”, “triangle”, “classic”.
- `register_shape(<file>)` – use a GIF image in the same directory as the turtle
 - `register_shape("cake.gif")`
 - `shape("cake.gif")`
- `stamp()` – draw an impression of the turtle

All these and more are described at <http://docs.python.org/library/turtle.html>

Bored?

Try these:



Fractals are beautiful shapes such as the following. You don't quite have all the Python tools to implement these yet but think about what it would take because we'll get there really fast! You can read about the math behind fractals at http://www.coolmath.com/fractals/fractals_lesson.html

