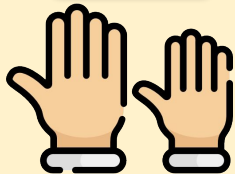
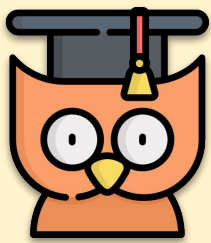


Week 4 - From Blocks to Code



Learning Outcomes:

- Learning how to make text with Tina the Turtle
- Make a pizza for Fat Tony's Pizza company
- Make a house scene with various shapes
- Converting block python into typed python code (Grade 2)

N.B. Have you washed your hands before getting started?

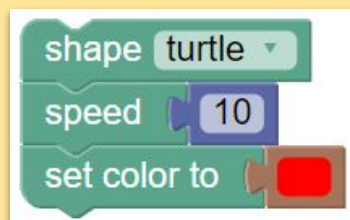


Writing with Turtles

Other than drawing lines and shapes, Tina the Turtle can also write words and sentences onto the canvas. We are now going to write something onto the canvas using Tina the Turtle. To practice this open up a blank block trinket:

www.bit.ly/blankblocktrinket. **Grade 3** - start with these blocks and click **View Code** and click **Convert to Python**.

1 Set up Tina the Turtle
Make turtle, set color, set speed etc.



2 Tell Tina what to write on the canvas.



3 Run the code above.

`turtle.write('Hello World!', None, None, "18pt Impact")`

4 Change the color of the font.

5 Change the font size.

Hello
World!



Grade 3 - Expert Tip (What the line means)

```
turtle.write('Hello World!', None, None, "18pt Impact")
```

Using the write command from the turtle library

'Your Message'

Move
true/false

Align
left/ center/
right

Font Size and
Family





Your Main Task

Grade 2 Code (trinket.io):

Grade 3 Code (repl.it):

<https://taoc.ie/pythonpizzastarter>

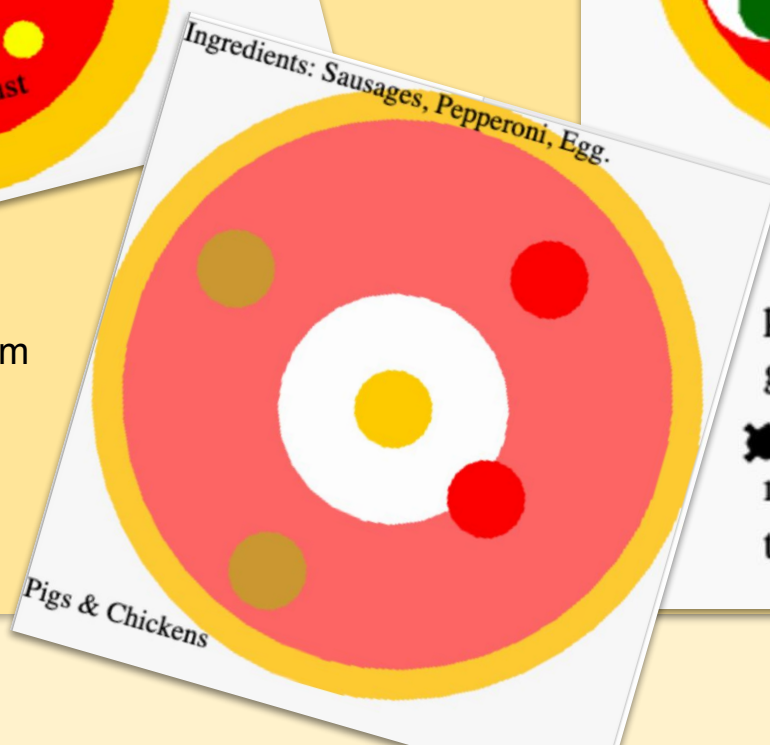
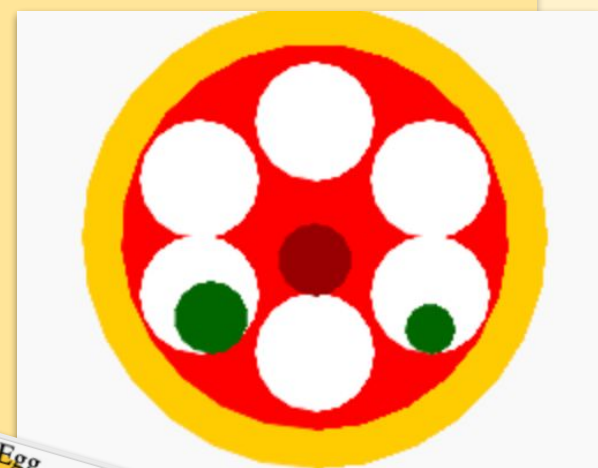
<https://repl.it/@DamienAOC/Python-Pizza>



Fat Tony, a sweaty, overweight, middle-aged pizzeria owner wants you to come up with a new pizza recipe to lure in new customers. Use **Text** along with a picture of the pizza.

Use what you have learned so far to write code to make Tina the Turtle draw a delicious new pizza design with your own favourite toppings.

Hint: Once you have drawn the **outer crust** and **base** of the pizza, draw **different shapes** with **different colours** to draw your different toppings.



Some examples from
our students
in **St. Conleth's
Junior School**

pepper
gerkin
pepperoni
mozzarella
tomato sauce



House Scene Challenge

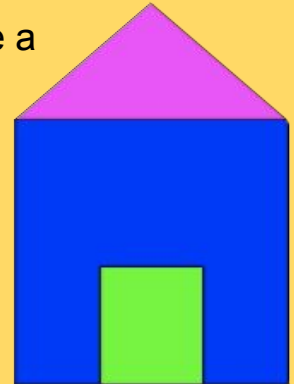
Grade 2 Code:

<https://trinket.io/embed/blocks/563fe95f6b>

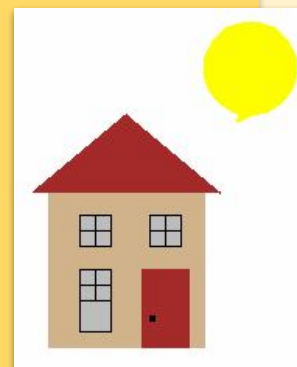
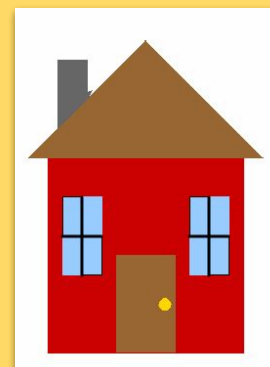
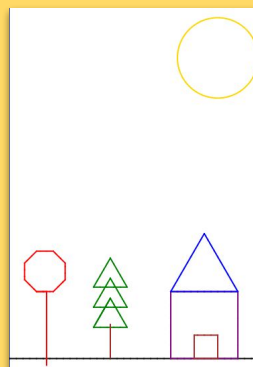
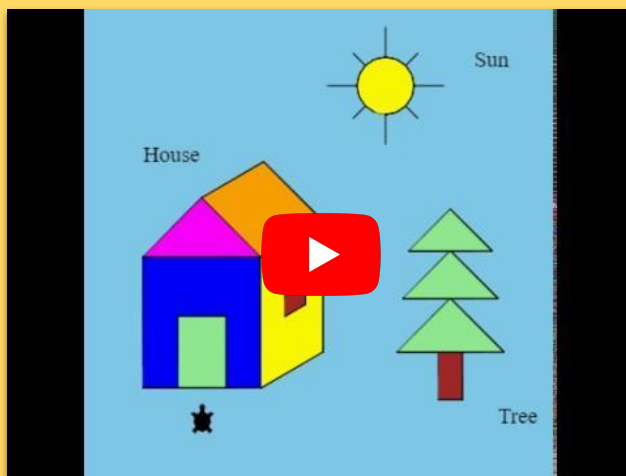
Grade 3 Code:

<https://repl.it/@DamienAOC/Python-House>

Your challenge is to use everything you've earned to make a house similar to the one on the right. If you have finished this, expand it into a bigger scene with trees, a road, a UFO or whatever you feel like.



Check out the example below but **don't worry** - this took one of our expert coders a long time to do!



Extra Challenge

Try recreating some of the advanced art cards at:

https://wiki.sugarlabs.org/go/Activities/Turtle_Art/Turtle_Cards