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What is the difference between a for loop and a while loop?

These two codes basically do the same thing, but a for is more simple and easier. For initialization there can be multiple statements.

What are the four parts of a for loop? What do they do?

Setup; test expression, the body, increment. Setup is like a basic rule you set at beginning such as x=0. Test expression is usually within the while loops, and it either execute the loops or exit and continue on. The body is the code within the braces. The increment is where we put the increment variable, usually in the end.

What does "nested" mean in the context of nested loops?

It was to draw multiple shapes, and repeat the same ellipse function over and over again.