Aim: How can we make recursive drawings?

Recursion

A process that uses ***self-reference***.

Recursive functions call themselves in their definitions.

Often, recursive solutions are simpler than non-recursive solutions.

There are 2 big questions you need to answer when developing a recursive algorithm:

1. Is there a really simple small version of this problem? (base case)

2. Can this problem be solved by breaking it down into smaller versions of itself?

Aim: How can we make recursive drawings?

```
def square_spiral(t, size):
    while size > 0:
        t.fd(size)
        t.rt(90)
        size-= 5
```

Can you write a recursive version of square spiral? (answer on next slide)