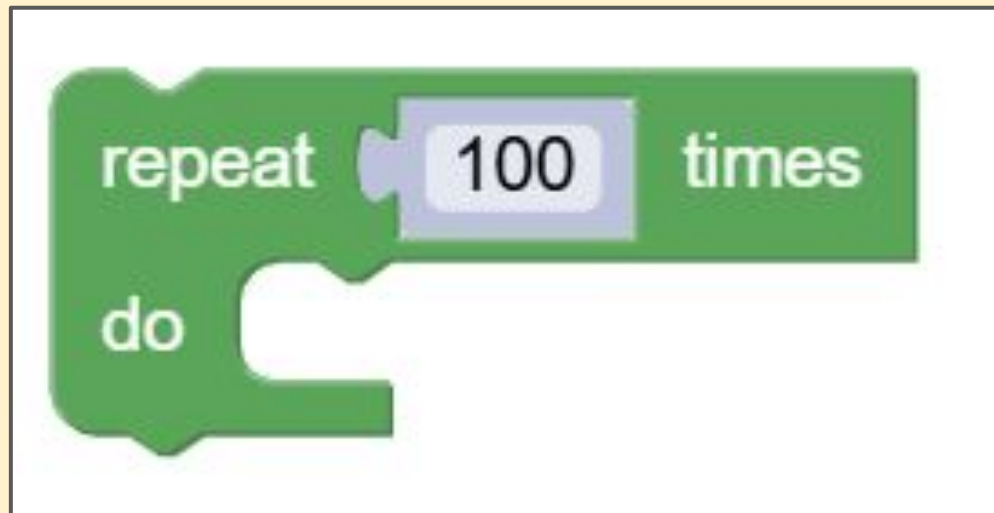


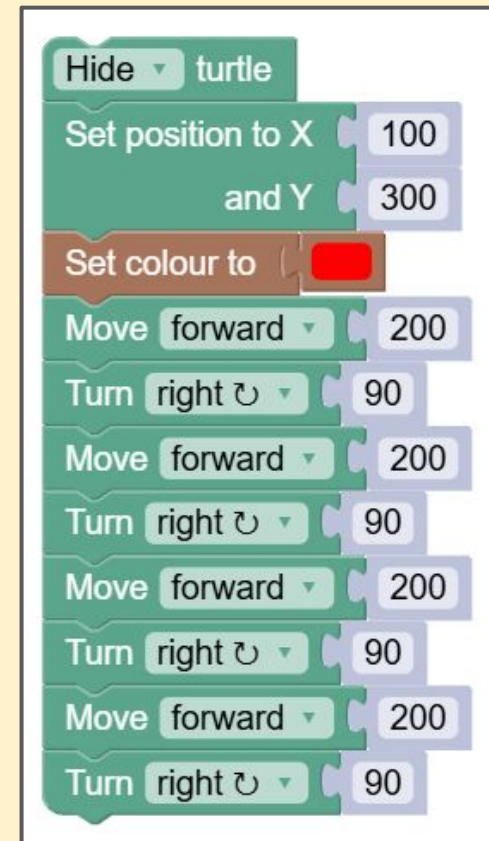
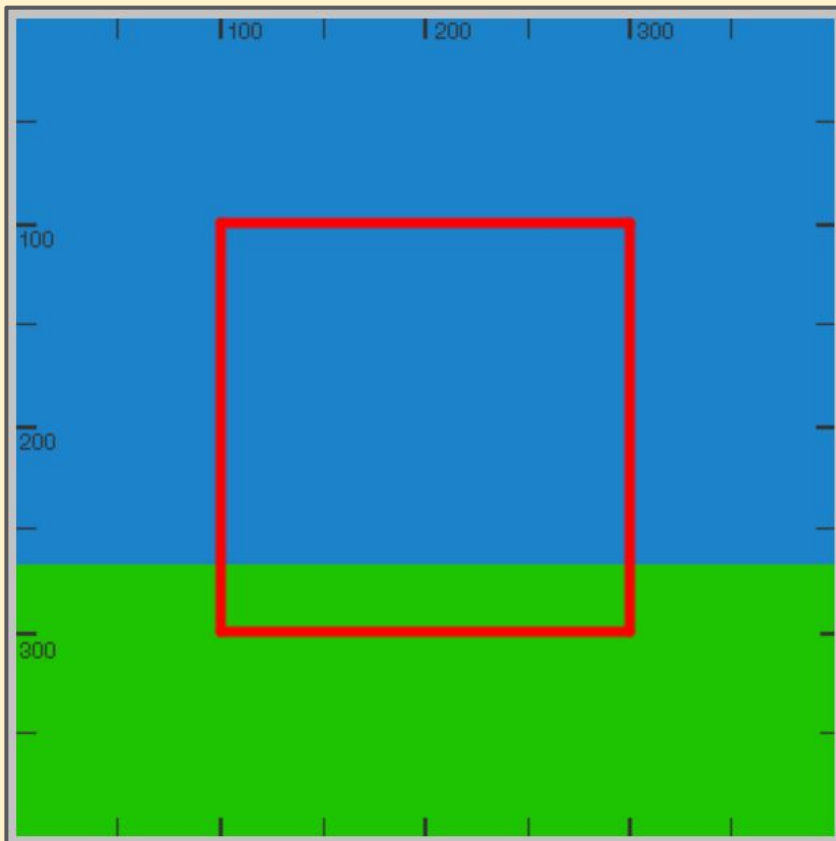
Loops

Loops are introduced in the orange playground



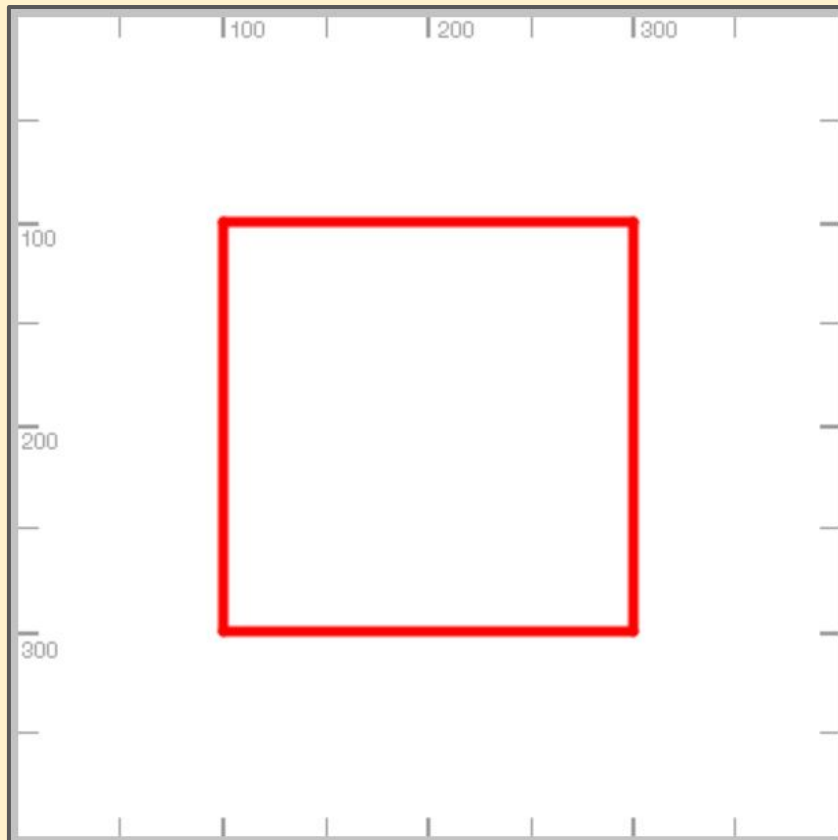
Loops

Loops make it much quicker to **repeat** sets of instructions



Loops

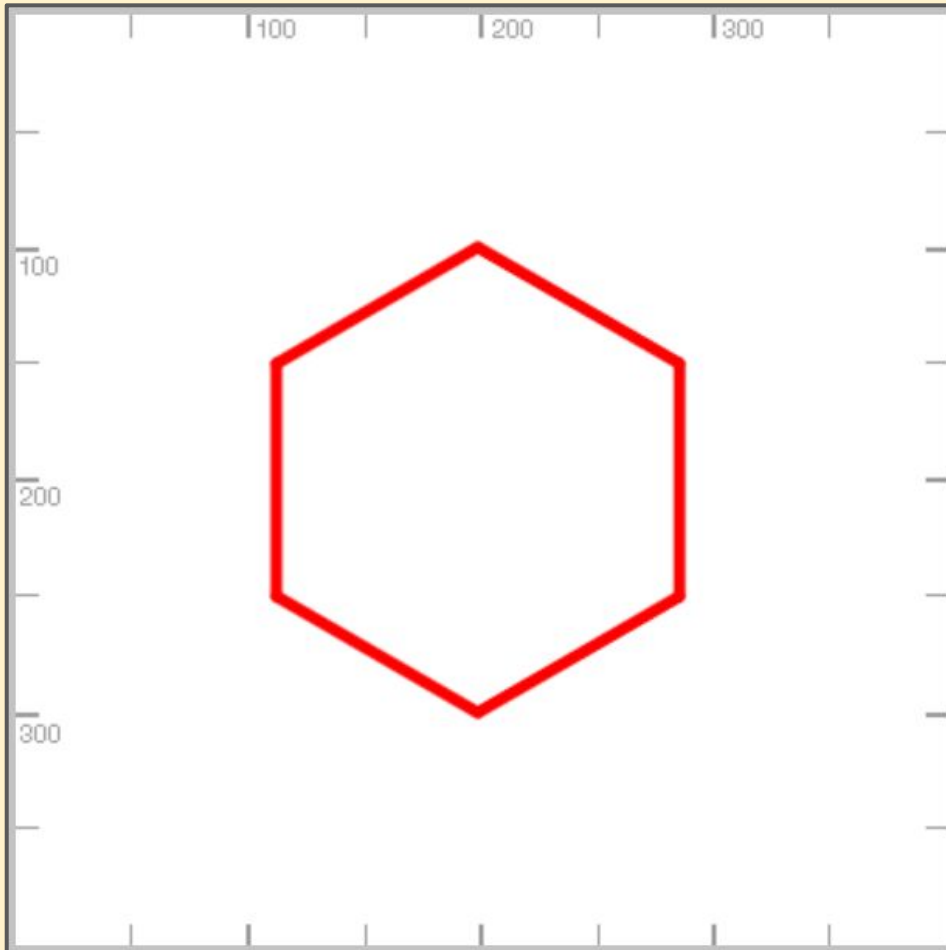
Loops make it much quicker to repeat sets of instructions



```
Set position to X 100  
and Y 300  
Hide turtle  
Set colour to [red]  
repeat 4 times  
do  
  Move forward 200  
  Turn right 90
```

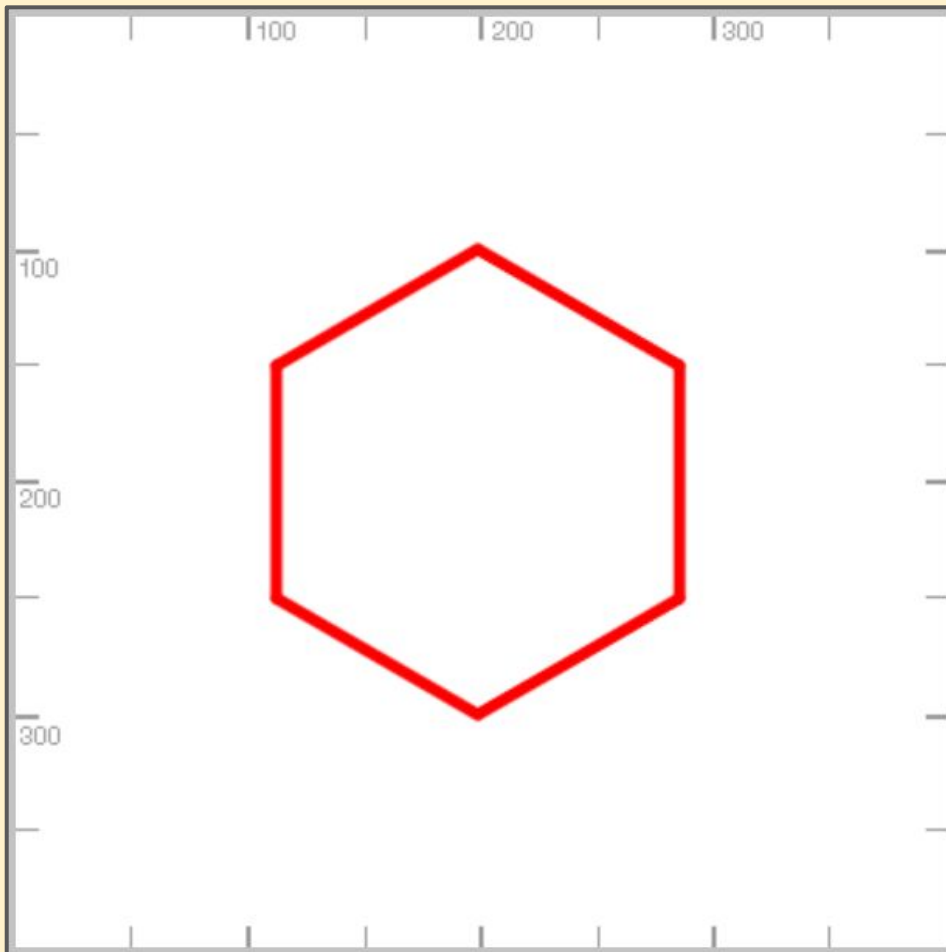
Loops

How many times to loop?



Loops

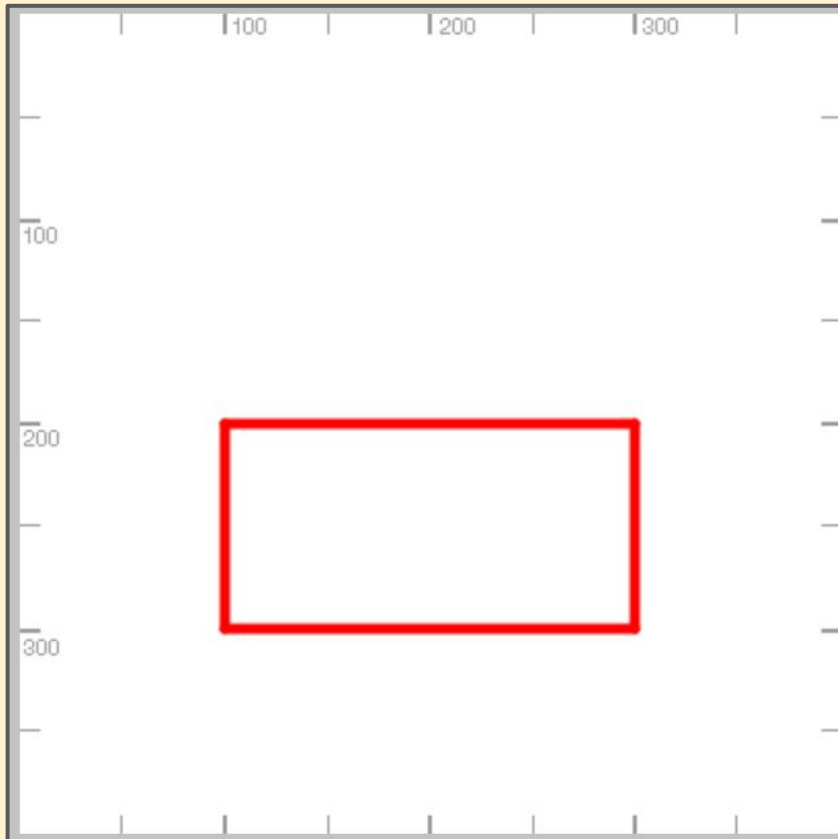
How many times to loop?



```
Set position to X 112 and Y 250
Hide turtle
Set colour to red
repeat 6 times
do
  Move forward 100
  Turn right 60
```

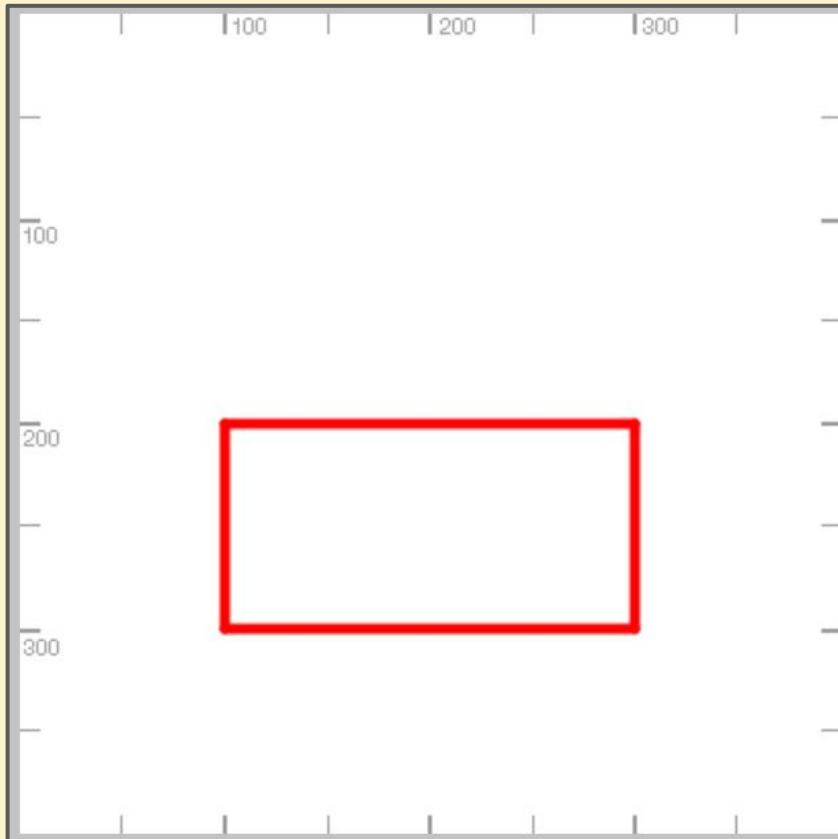
Loops

How many times to loop?



Loops

How many times to loop?



```
Set position to X 100
and Y 300
Hide turtle
Set colour to red
repeat 2 times
do
Move forward 100
Turn right 90
Move forward 200
Turn right 90
```

Loops

A **loop repeats** a section of code a set number of times

Repetition is a really important idea in programming. It makes a lot of things quicker and easier to do

We sometimes call **repetition** by the name **iteration**

Loops

The purple playground introduces another type of loop

