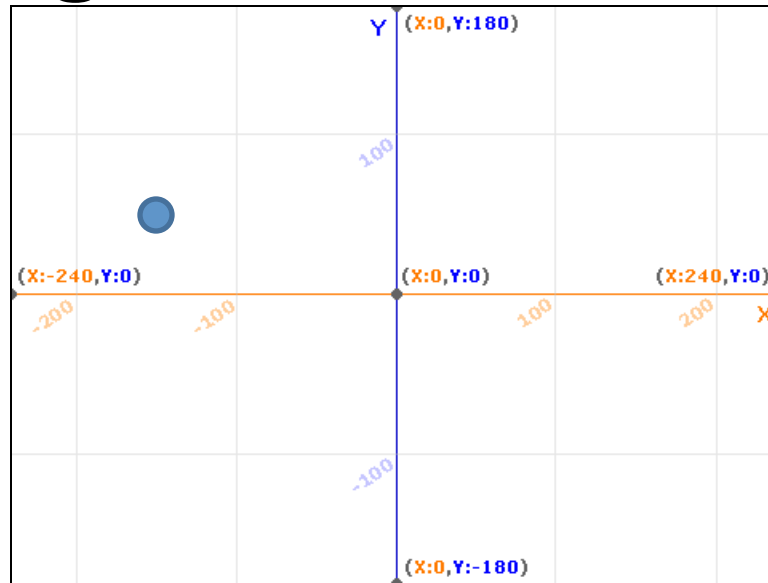


# SCRATCH



## Coordinates in Scratch

# The Stage is a Coordinate Plane



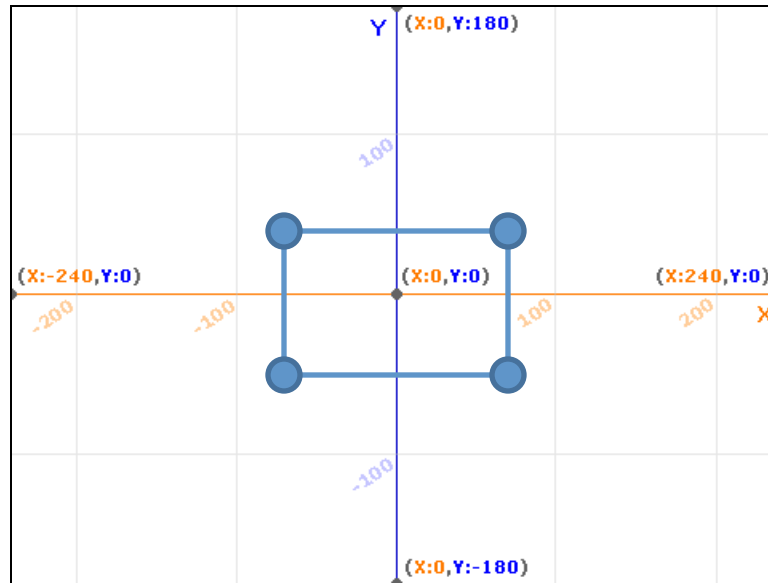
The x axis goes side to side.

The y axis goes up and down.

Every point on the stage has a position on the x axis and a position on the y axis. We write that position in parentheses and put the x position first.

Example: (-150, 50)

# Shapes on the Coordinate Plane



A shape on the coordinate plane can be drawn by finding the coordinates of its corners.

Example:

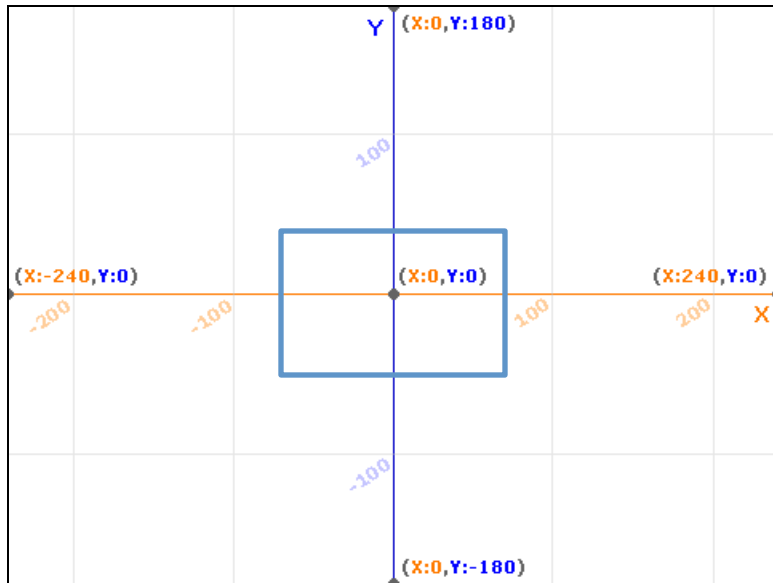
First point: (-75, 40)

Second point: (75, 40)

Third point: (75, -50)

Fourth point: (-75, -50)

# What would the script look like?



```
pen up
go to x: -75 y: 40
pen down
go to x: 75 y: 40
go to x: 75 y: -50
go to x: -75 y: -50
go to x: -75 y: 40
```