

LO Write a program that will draw a tree that looks different every time

NAME

CLASS

code-it.co.uk

Y=180

Y= 90

Y=0

Y=-90

Y=-180

Draw a tree that loses its leaves in winter (deciduous) using a pencil. Line up the trunk with the Y axis line. Label the parts of the tree. Where on the Y line does your trunk start? Where does your branches start on the Y axis?

Decomposition

Decomposition is where you break a problem up into smaller parts and solve the parts separately. You have already decomposed your tree into parts. Why not work on solving the easiest part first? Which part do you think might be easiest?

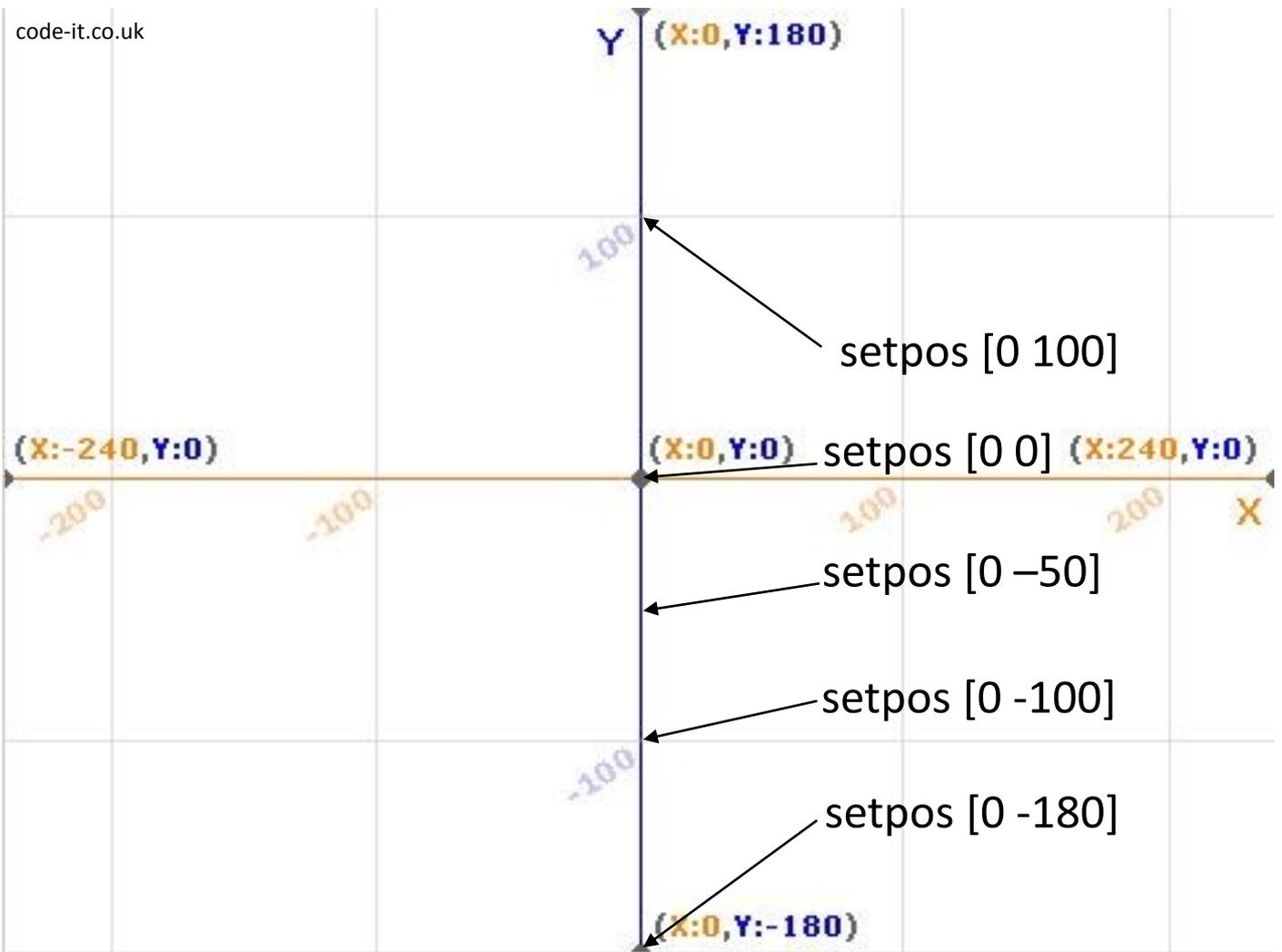
Useful Logo Commands

Look back over the properties of the part of the tree you have chosen to program first. Which Logo commands might be useful in programming it?

FORWARD 20 or FD 20	Forward 20
BACK 70 or BK 70	Back 70
RIGHT 90 or RT 90	Right 90 degrees
LEFT 45 or LT 45	Left 45 degrees
PENUP or PU	Takes pen up off screen stops drawing
PENDOWN or PD	Puts pen on screen starts drawing
CS or CLEARSCREEN	Clears screen and sends turtle home facing 0
SETPOS [0 100]	Sends turtle to these coordinates X axis 0 Y
SETHEADING 0	Sets heading direction turtle is facing to up see next sheet for more examples
PENCOLOR [100 100 100] <i>(note American spelling color)</i>	Pen colour see bottom of sheet for more examples

Black [0 0 0] red [255 0 0] blue [0 0 255] yellow [255 255 0] pink [255 20 147]
purple [128 0 128] green [0 255 0] white [255 255 255]

You are not limited to just these commands but these are a good start



You can use the Y axis to help you get back to the tree trunk

