Watercolor Bot

You have the opportunity to use the Watercolor Bot to make your Field of Flowers into a watercolor painting, or make a new creation of your choosing.

1. Log in

❏ Go to http://beetleblocks.com/run/

❏ Use your Snap*!* username and password to log in

2. Code your drawing

❏ Decide what you want to make...

★ rebuild your code from Field of Flowers

★ ...or come up with a new interesting drawing

❏ Review the items below before you start to code

a. the stage

★ zoom the stage by scrolling the middle mouse button

★ rotate the stage by clicking and dragging the middle mouse button

★ move the stage by holding down SHIFT, then clicking and dragging the middle mouse button

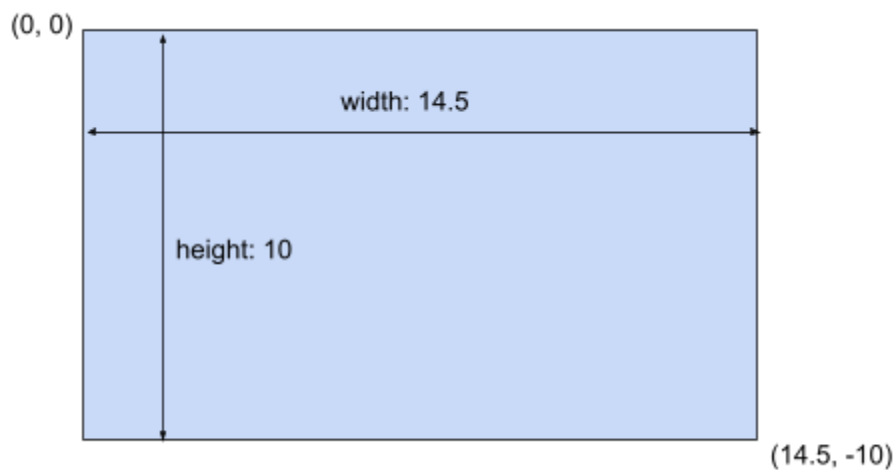### b. differences in blocks

★ Some of the Beetle Blocks are named a little differently than Snap*!* Blocks
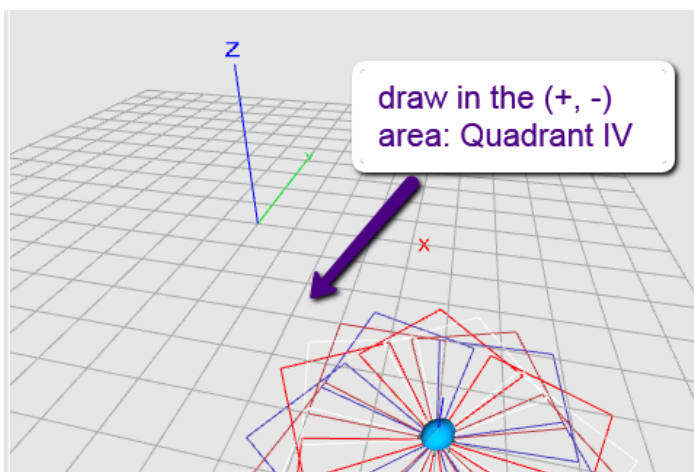
Snap*!*	Beetle Blocks
turn ↻ 15 degrees	rotate z ▾ by 15
go to x: 0 y: 0	point to x: 0 y: 0 z: 0 (leave z as 0)

set pen color to `0` change pen color by `10` *colors range from 0 to 200*	set `hue ▾` to `0` change `hue ▾` by `10` *colors range from 0 to 359*
set pen shade to `100`	set `saturation ▾` to `100`
pen down pen up	start drawing `lines ▾` stop drawing (in *Shapes*)
clear go to x: `0` y: `0`	reset

c. required size

★ The size of the exported drawing "paper" is 14.5 units wide by 10 units tall, with the origin in the upper left corner:

(0, 0)

width: 14.5

height: 10

(14.5, -10)

★ To import to the WaterColorBot correctly, your drawing needs to be contained in Quadrant IV, between (0, 0) and (14.5, -10)

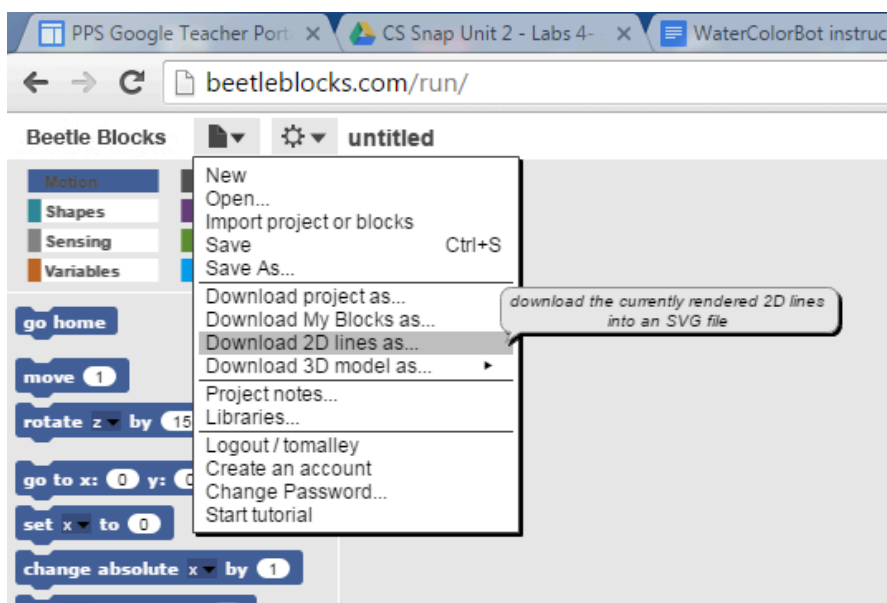draw in the (+, -) area: Quadrant IV

3. Export your drawing

a. save your code

- ❏ click the file menu and select *Save as…*

- ❏ name your file -- ***watercolorbot*** might be a good name
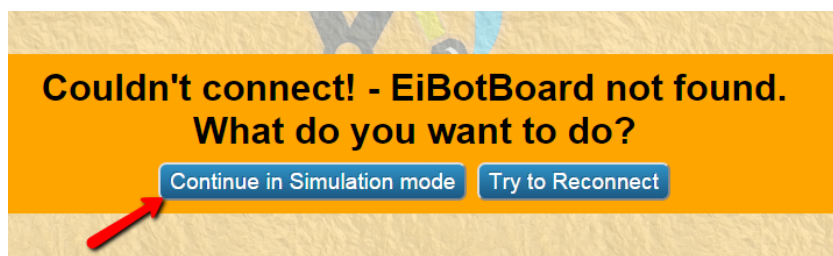
b. save your drawing

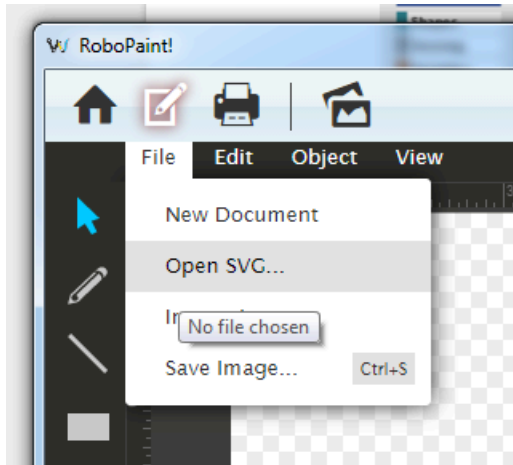- ❏ Go to the file menu and select *Download 2D lines as...*

- ❏ Save to your Y drive as **periodFirstnameLastname.svg**, replacing "period" with your period number and FirstnameLastname with your name (example: **2TamaraOmalley.svg**)

4. Test your drawing

- ❏ Open RoboPaint

- ❏ Select *Continue in Simulation mode*

❏ Select *Create*

❏ Select *File* and *Open SVG*

❏ Select / open your .svg file to see if it looks correct

❏ If necessary, make any changes you want in Beetle Blocks and repeat the process until you are happy with the result (you might need to close RoboPaint to get the same filename to reopen)

5. Turn in your drawing

❏ Go to classroom.google.com

❏ READ the *Field of Flowers and WaterColorBot* assignment

❏ OPEN the assignment and complete it (it's the same document you use for Field of Flowers)

❏ Let me know your watercolor is ready to paint