

Tecky Brains Shape Library – Draw Your Future Self

Beginner-Friendly Codes to Draw Faces, Emotions & STEAM Careers

1. Basic Shapes – Everything Starts with Geometry

Shape	Code Example	What It Does
 Circle	<code>ellipse(200,200,100,100);</code>	Draws a round shape (perfect for faces or eyes).
 Rectangle	<code>rect(150,250,100,80,20);</code>	Draws a body, hair, or lab coat. The last number rounds the corners.
 Triangle	<code>triangle(200,150,170,200,230,200);</code>	Good for noses, skirts, or collars.
 Line	<code>line(150,250,250,250);</code>	Draws a straight line (mouths, necks, tools).
 Oval	<code>ellipse(170,190,25,15);</code>	Great for eyes or futuristic glasses.

2. Colors & Style – Let's Paint the Future!

Command	Example	What It Does
<code>fill(r,g,b);</code>	<code>fill(255,220,180);</code>	Fills shapes with color. Try skin tones, or purple for space lights.
<code>stroke(r,g,b);</code>	<code>stroke(0,0,0);</code>	Adds outline color.
<code>strokeWeight(3);</code>	<code>strokeWeight(3);</code>	Makes lines thicker (good for hair outlines).
<code>noStroke();</code>	<code>noStroke();</code>	Removes the outline — looks smoother.
<code>background(r,g,b);</code>	<code>background(240,240,255);</code>	Changes the background — sky, lab, space.

3. Face Builder – Step by Step

Part	Code	Description
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Head	<code>fill(255,220,180); ellipse(200,200,120,150);</code>	Big oval for head.
Eyes	<code>fill(255); ellipse(170,190,25,15); ellipse(230,190,25,15);</code>	Two white ovals.
Pupils	<code>fill(0); ellipse(170,190,10,10); ellipse(230,190,10,10);</code>	Black dots inside.
Mouth (smile)	<code>noFill(); arc(200,230,60,40,0,PI);</code>	A half-circle smile.
Nose	<code>line(200,200,200,215);</code>	Simple line.

4. Hair, Glasses, and Accessories

Element	Code	Description
Hair (straight)	<code>fill(100,70,40); rect(130,130,140,80,30);</code>	Top rectangle for hair.
Curly Hair	<code>fill(90,60,30); ellipse(200,120,160,100);</code>	Fluffy oval for curls.
Glasses	<code>noFill(); rect(160,180,30,20); rect(210,180,30,20); line(190,190,210,190);</code>	Two rectangles connected.
Earrings	<code>fill(255,215,0); ellipse(150,210,8,8); ellipse(250,210,8,8);</code>	Small gold dots.

5. Clothes & Career Symbols

Outfit / Tool	Code	Career Connection
Lab coat	<code>fill(255); rect(150,280,100,120,20);</code>	Scientist 
Stethoscope	<code>stroke(0); noFill(); arc(200,320,50,50,PI,0); line(175,320,190,340); line(225,320,210,340);</code>	Doctor 
Helmet visor	<code>noFill(); stroke(180,200,255); arc(200,190,160,120,PI,0);</code>	Astronaut 
Laptop / Tablet	<code>fill(180); rect(170,400,60,40,5);</code>	Programmer 
DNA Symbol	<code>stroke(150,0,255); arc(190,300,20,40,PI,0); arc(210,300,20,40,0,PI);</code>	Biotech or researcher 

Robot
sidekick `rect(300,350,50,50,10); ellipse(325,330,40,40);`

Robotics 

Planet `fill(200,220,255); ellipse(380,80,80,80);`

Space explorer


6. Add Life and Story

Command	Example	Use
Speech bubble	<code>rect(250,150,100,40,10);</code>	Add text like "I code the future!"
Text label	<code>text("Future Engineer",150,460);</code>	Name their dream role.
Shadow	<code>fill(50,50,50,40); ellipse(200,400,100,20);</code>	Adds depth.
Transparency	<code>fill(100,200,255,80);</code>	Glass, visor, or hologram.