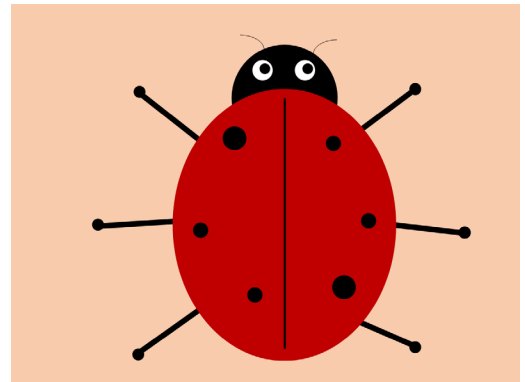
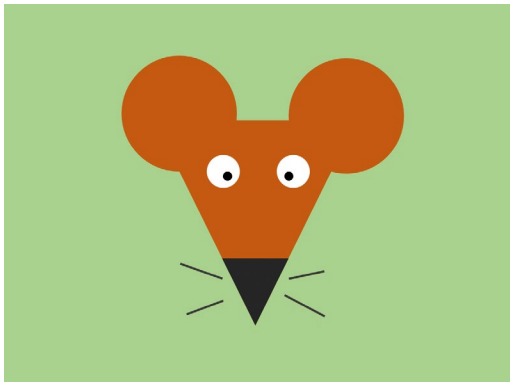
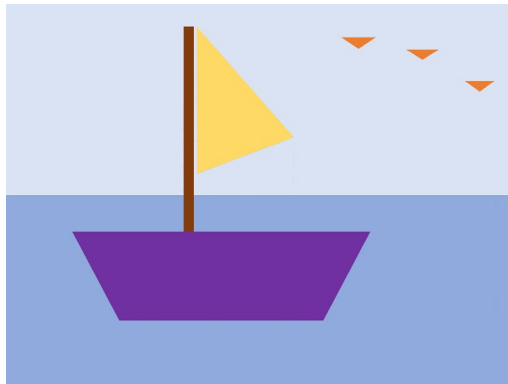
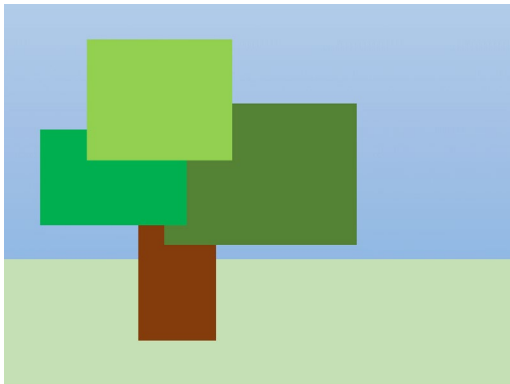
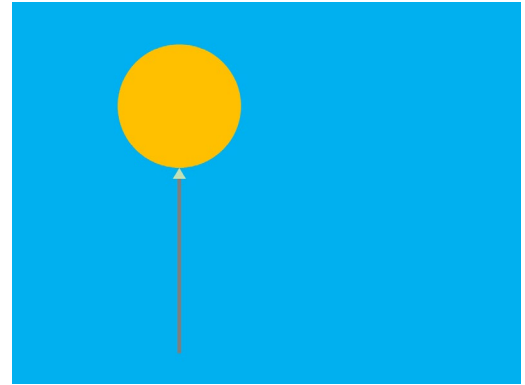
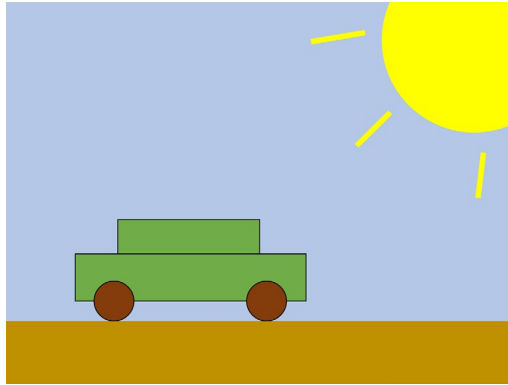
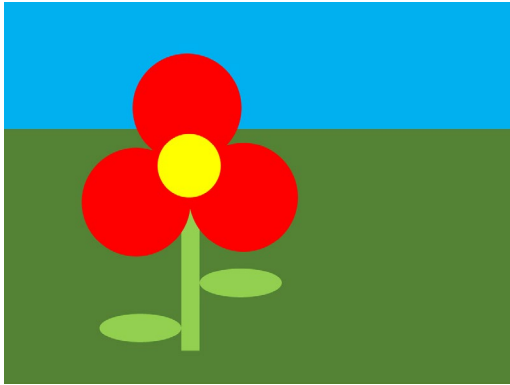
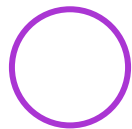


# Paint with JavaScript



# Graphical Commands



**circle(x, y, radius)**

circle(400, 300, 100)  
circle(400, 300, 50)



**ellipse(x, y, width, height)**

ellipse(400, 300, 200, 200)  
ellipse(400, 300, 100, 50)



**line(x1, y1, x2, y2)**

line(100, 100, 700, 100)  
line(50, 550, 750, 550)



**rect(x, y, width, height)**

rect(400, 300, 300, 200)  
rect(350, 350, 300, 200)



**point(x, y)**

point(0, 0)  
point(400, 300)



**triangle(x1, y1, x2, y2, x3, y3)**

triangle(400, 200, 300, 450, 500, 450)

## Set the color for drawing

noStroke()  
stroke(color)  
strokeWeight(weight)

## Set the color for filling

background(color)  
fill(color)  
noFill()

## Specifying color

- #RRGGBB (red, green, blue components)  
- Predefined color

## Popular colors

	IndianRed, LightCoral, Salmon, DarkSalmon, LightSalmon, Crimson, Red, FireBrick, DarkRed
	Pink, LightPink, HotPink, DeepPink, MediumVioletRed, PaleVioletRed
	LightSalmon, Coral, Tomato, OrangeRed, DarkOrange, Orange
	Gold, Yellow, LightYellow, LemonChiffon, LightGoldenrodYellow, PapayaWhip, Moccasin, PeachPuff, PaleGoldenrod, Khaki, DarkKhaki
	Lavender, Thistle, Plum, Violet, Orchid, Fuchsia, Magenta, MediumOrchid, MediumPurple, RebeccaPurple, BlueViolet, DarkViolet, DarkOrchid, DarkMagenta, Purple, Indigo, SlateBlue, DarkSlateBlue, MediumSlateBlue
	GreenYellow, Chartreuse, LawnGreen, Lime, LimeGreen, PaleGreen, LightGreen, MediumSpringGreen, SpringGreen, MediumSeaGreen, SeaGreen, ForestGreen, Green, DarkGreen, YellowGreen, OliveDrab, Olive, DarkOliveGreen, MediumAquamarine, DarkSeaGreen, LightSeaGreen, DarkCyan, Teal
	Aqua, Cyan, LightCyan, PaleTurquoise, Aquamarine, Turquoise, MediumTurquoise, DarkTurquoise, CadetBlue, SteelBlue, LightSteelBlue, PowderBlue, LightBlue, SkyBlue, LightSkyBlue, DeepSkyBlue, DodgerBlue, CornflowerBlue, MediumSlateBlue, RoyalBlue, Blue, MediumBlue, DarkBlue, Navy, MidnightBlue
	Cornsilk, BlanchedAlmond, Bisque, NavajoWhite, Wheat, BurlyWood, Tan, RosyBrown, SandyBrown, Goldenrod, DarkGoldenrod, Peru, Chocolate, SaddleBrown, Sienna, Brown, Maroon
	White, Snow, HoneyDew, MintCream, Azure, AliceBlue, GhostWhite, WhiteSmoke, SeaShell, Beige, OldLace, FloralWhite, Ivory, AntiqueWhite, Linen, LavenderBlush, MistyRose
	Gainsboro, LightGray, Silver, DarkGray, Gray, DimGray, LightSlateGray, SlateGray, DarkSlateGray, Black

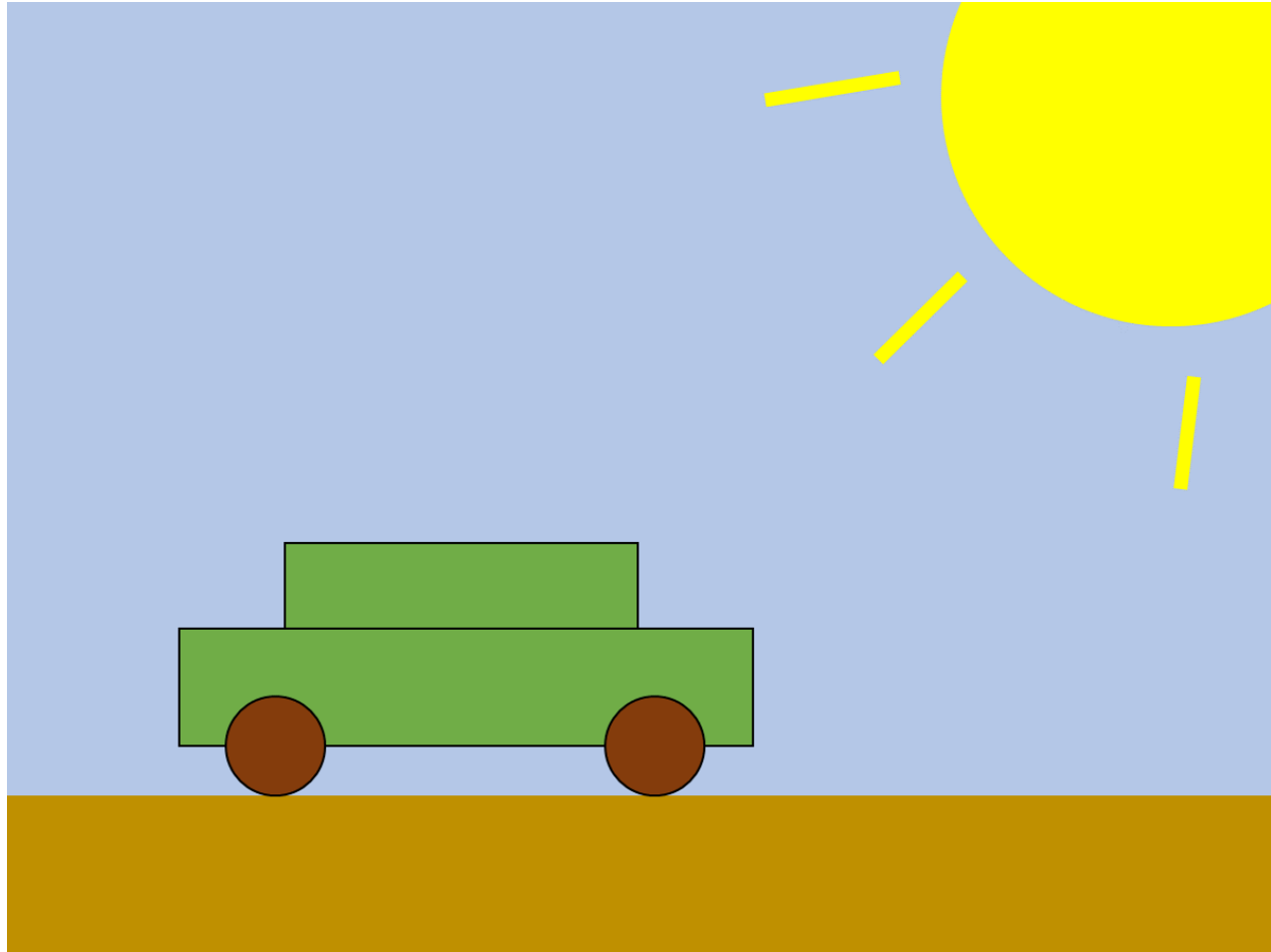
# Car

## Type-in JavaScript Program

```
// Background
noStroke();
fill(180, 199, 231);
rect(0, 0, 800, 500);
fill(191, 144, 0);
rect(0, 500, 800, 600);

// Sun
fill("yellow");
circle(750, 50, 150);
stroke("yellow");
strokeWeight(6);
line(480, 60, 561, 47);
line(548, 224, 602, 172);
line(740, 304, 747, 236);

// Car
stroke("black");
strokeWeight(1);
fill(112, 173, 71);
rect(175, 340, 223, 54);
rect(108, 394, 362, 74);
fill(132, 60, 12);
circle(168, 468, 32);
circle(408, 468, 32);
```



1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click "Code Now" button

2

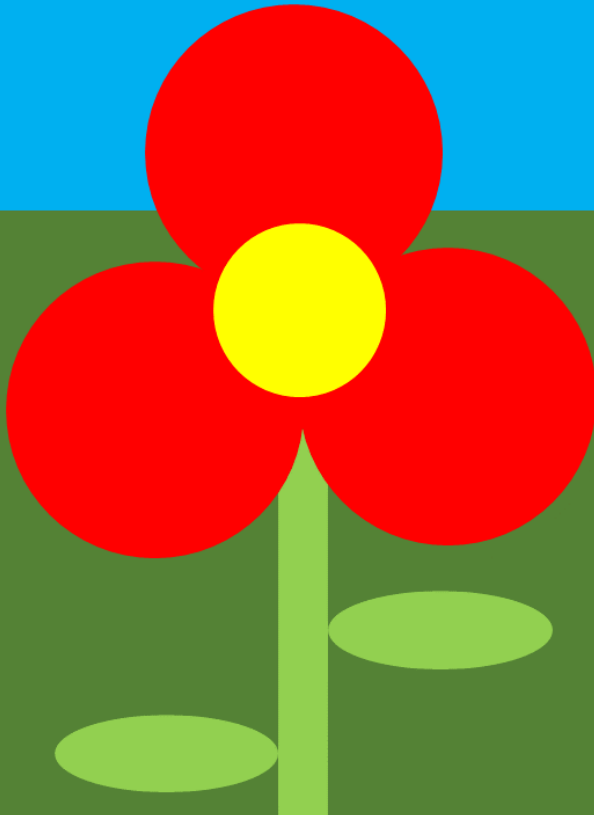
Type-in the above program  
in the Code Editor

3

Press "Run"  
and enjoy!

# Flower

Type-in JavaScript Program



```
// Background
noStroke();
fill(0, 176, 240);
rect(0, 0, 800, 200);
fill(84, 130, 53);
rect(0, 200, 800, 600);

// Stem
fill(146, 208, 80);
rect(277, 313, 30, 237);
ellipse(215, 514, 124, 46);
ellipse(374, 438, 134, 46 );

// Flower
fill("red");
circle(290, 160, 87);
circle(209, 314, 87);
circle(377, 307, 87);
fill("yellow");
circle(290, 260, 46);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click “Code Now” button

2

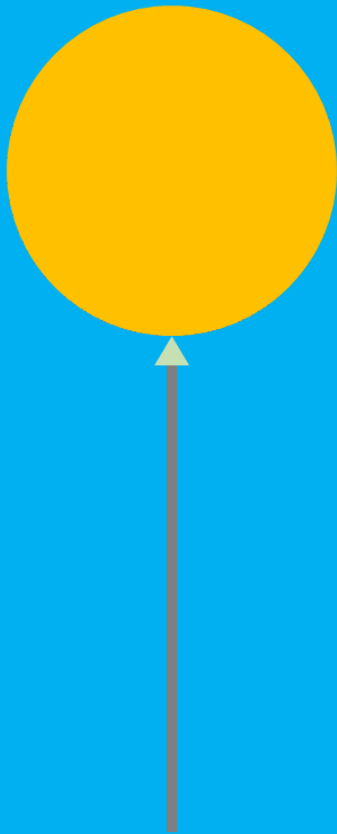
Type-in the above program  
in the Code Editor

3

Press “Run”  
and enjoy!

# Balloon

Type-in JavaScript Program



```
background("#00b0f0");

// String
stroke("#7f7f7f");
strokeWeight(3);
line(263, 280, 263, 548);

// Balloon
noStroke();
fill("#ffc000");
triangle(255, 289,
        263, 272,
        271, 289);
circle(263, 172, 100);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click "Code Now" button

2

Type-in the above program  
in the Code Editor

3

Press "Run"  
and enjoy!

# Snowman

## Type-in JavaScript Program

```
background("#8faadc");

// Right hand
stroke("#843c0c");
strokeWeight(10);
line(604, 359, 495, 291);
line(604, 359, 607, 378);
line(604, 359, 627, 367);
line(604, 359, 627, 355);

// Body
stroke("#335693");
strokeWeight(1);
fill("white");
circle(400, 445, 126);
circle(400, 285, 99);
circle(400, 151, 68);

// Eyes
fill("black");
noStroke();
circle(366, 124, 10);
circle(428, 124, 10);
```

```
// Mouth
circle(362, 179, 6);
circle(379, 197, 6);
circle(403, 201, 6);
circle(428, 199, 6);

// Buttons
circle(407, 267, 10);
circle(407, 320, 10);
circle(407, 433, 10);
circle(407, 502, 10);

// Nose and hat
fill("#ffc000");
triangle(397, 161, 401, 176, 483, 146);
fill("#c55a11");
triangle(321, 125, 353, 39, 434, 73);

// Left hand
stroke("#843c0c");
strokeWeight(10);
line(225, 168, 323, 265);
line(225, 168, 196, 171);
line(225, 168, 201, 157);
line(225, 168, 216, 135);
```



1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click “Code Now” button

2

Type-in the above program  
in the Code Editor

3

Press “Run”  
and enjoy!

# House

## Type-in JavaScript Program



```
// Background
noStroke();
fill("#00b0f0");
rect(0, 0, 800, 400);
fill("#548235");
rect(0, 400, 800, 600);

fill("#ffc740");
rect(109, 254, 325, 274);

// Left window
stroke("#c55a11");
strokeWeight(3);
fill("#dae3f3");
square(147, 302, 56);
line(175, 302, 175, 358);
line(147, 330, 203, 330);

// Right window
square(347, 302, 56);
line(375, 302, 375, 358);
line(347, 330, 403, 330);
```

```
// Door
strokeWeight(1);
fill("#ed7d31");
rect(229, 417, 90, 110);
fill("#bfbfbf");
circle(305, 471, 8);

// Horn
noStroke();
fill("#843c0c");
rect(174, 117, 24, 80);

// Roof
fill("#ed7d31");
triangle(109, 254, 272, 75, 434, 254);

// Sun
fill("yellow");
circle(750, 50, 150);
stroke("yellow");
strokeWeight(6);
line(480, 60, 561, 47);
line(548, 224, 602, 172);
line(740, 304, 747, 236);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click "Code Now" button

2

Type-in the above program  
in the Code Editor

3

Press "Run"  
and enjoy!

# House 2

## Type-in JavaScript Program



```
// Background
noStroke();
fill("#8faadc");
rect(0, 0, 800, 300);
fill("#548235");
rect(0, 300, 800, 600);

// Tree
fill("#843c0c");
rect(104, 240, 28, 190);
fill("#548235");
ellipse(119, 139, 172, 229);
```

```
// House
fill("#ffc000");
rect(272, 260, 380, 227);

// Roof
fill("#843c0c");
triangle(252, 260, 460, 110, 670, 260);

// Left window
stroke("#c55a11");
strokeWeight(3);
fill("#dae3f3");
square(295, 287, 96);
line(343, 287, 343, 383);
line(295, 335, 391, 335);

// Right window
square(535, 287, 96);
line(583, 287, 583, 383);
line(535, 335, 631, 335);
```

```
// Door
fill("#c55a11");
rect(415, 330, 95, 155);

// Sun
fill("#ffc000");
stroke("#ffc000");
circle(700, 100, 32);
line(631, 100, 658, 100);
line(659, 43, 673, 59);
line(729, 61, 743, 42);
line(750, 106, 770, 106);
line(729, 141, 742, 155);
line(674, 139, 660, 155);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click "Code Now" button

2

Type-in the above program  
in the Code Editor

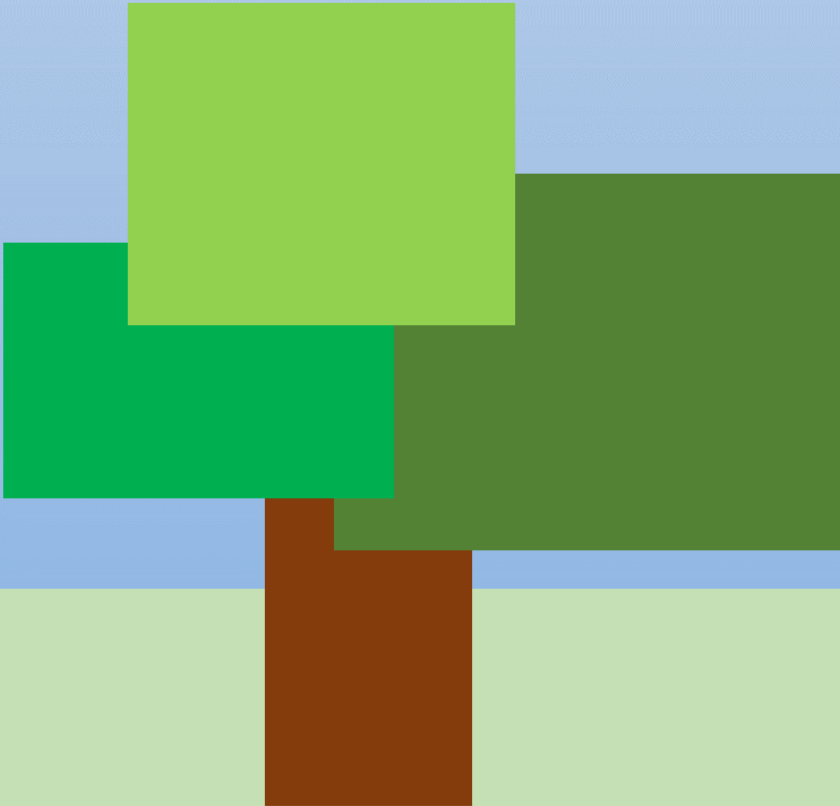
3

Press "Run"  
and enjoy!



# Square Tree

Type-in JavaScript Program



```
noStroke();

// Background
fill("#aac6e7");
rect(0, 0, 800, 400);
fill("#c5e0b4");
rect(0, 400, 800, 600);

// Trunk
fill("#843c0c");
rect(212, 330, 120, 190);

// Leaves
fill("#548235");
rect(255, 158, 300, 220);
fill("#00b050");
rect(57, 197, 230, 150);
fill("#92d050");
rect(130, 55, 230, 190);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click "Code Now" button

2

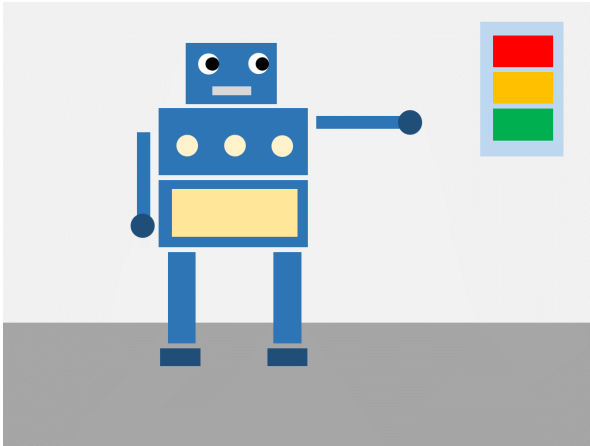
Type-in the above program  
in the Code Editor

3

Press "Run"  
and enjoy!

# Robot

## Type-in JavaScript Program



```
noStroke();
```

```
// Background
fill("#efefef");
rect(0, 0, 800, 430);
fill("#a7a7a7");
rect(0, 430, 800, 600);
```

```
// Head and body
fill("#2e75b6");
rect(249, 54, 122, 83);
rect(211, 142, 200, 90);
rect(211, 240, 200, 90);
```

```
// Legs
rect(224, 338, 36, 124);
rect(368, 338, 36, 124);
```

```
// Arms
rect(182, 176, 16, 118);
rect(426, 155, 118, 16);
```

```
// Feet and hands
fill("#1f4e79");
rect(214, 468, 55, 25);
rect(359, 468, 55, 25);
circle(190, 300, 15);
circle(553, 162, 15);
```

```
// Eyes
fill("white");
circle(278, 83, 14);
circle(347, 83, 14);
fill("black");
circle(283, 83, 9);
circle(352, 83, 9);
```

```
// Mouth
fill("#d8d8d8");
rect(285, 113, 53, 13);
```

```
// Decorations
fill("#fff2cc");
circle(250, 195, 12);
circle(315, 195, 12);
circle(380, 195, 12);
fill("#ffe699");
rect(230, 250, 165, 65);
```

```
// Lights
fill("#bdd7ee");
rect(638, 28, 104, 175);
fill("red");
rect(650, 45, 80, 42);
fill("#ffc000");
rect(650, 95, 80, 42);
fill("#00b050");
rect(650, 145, 80, 42);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click "Code Now" button

2

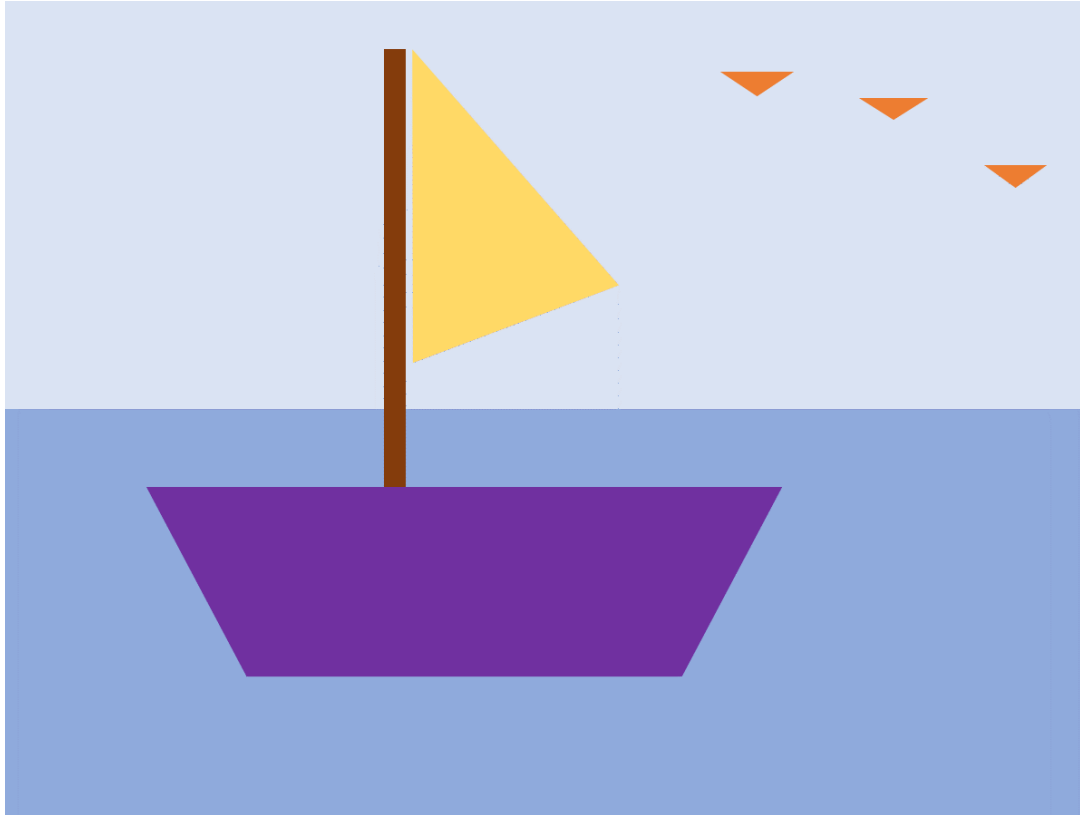
Type-in the above program  
in the Code Editor

3

Press "Run"  
and enjoy!

# Boat

## Type-in JavaScript Program



```
noStroke();

// Background
fill("#dae3f3");
rect(0, 0, 800, 300);
fill("#8faadc");
rect(0, 300, 800, 600)

// Mast
fill("#843c0c");
rect(280, 36, 16, 321);
fill("#ffd966");
triangle(300, 36, 450, 207, 300, 264);

// Boat
fill("#7030a0");
rect(178, 357, 319, 140);
triangle(105, 357, 178, 357, 178, 497);
triangle(573, 357, 497, 497, 497, 357);

// Birds
fill("#ed7d31");
triangle(529, 52, 578, 52, 553, 67);
triangle(631, 71, 677, 71, 654, 85);
triangle(722, 121, 766, 121, 743, 135);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click "Code Now" button

2

Type-in the above program  
in the Code Editor

3

Press "Run"  
and enjoy!

# Smiley

Type-in JavaScript Program



```
noStroke();  
background("#548235");  
  
fill("#ffc000");  
circle(400, 300, 200);  
  
fill("black");  
circle(314, 206, 25);  
circle(504, 206, 25);  
  
fill("#c00000");  
arc(400, 340, 238, 196, 0, 180);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click "Code Now" button

2

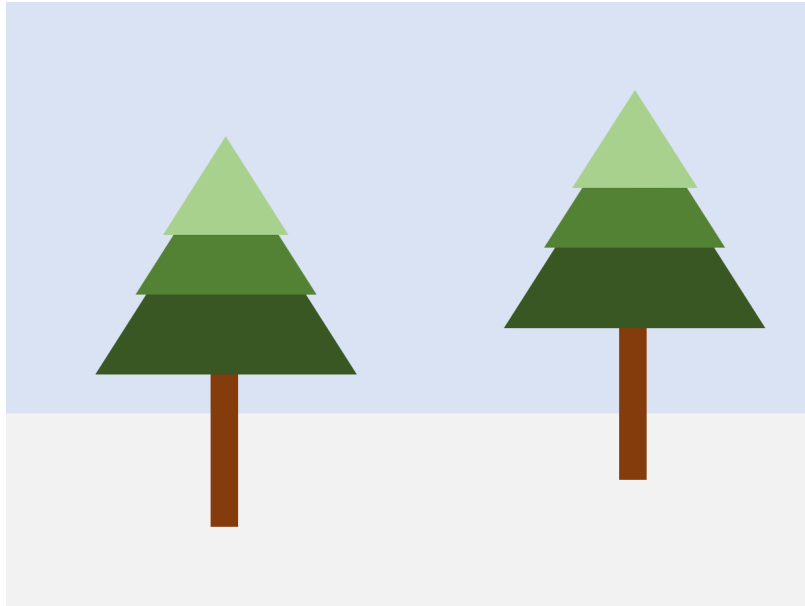
Type-in the above program  
in the Code Editor

3

Press "Run"  
and enjoy!

# Pine Trees

## Type-in JavaScript Program



```
noStroke();

// Background
fill("#dae3f3");
rect(0, 0, 800, 400);
fill("#f2f2f2");
rect(0, 400, 800, 200);

// First tree
fill("#843c0c");
rect(205, 368, 26, 151);
fill("#385723");
triangle(220, 165, 90, 370, 350, 370);
fill("#538234");
triangle(220, 149, 130, 290, 309, 290);
fill("#a9d18e");
triangle(220, 134, 158, 230, 281, 230);

// Second tree
fill("#843c0c");
rect(205+405, 368-45, 26, 151);
fill("#385723");
triangle(220+405, 165-45, 90+405, 370-45, 350+405, 370-45);
fill("#538234");
triangle(220+405, 149-45, 130+405, 290-45, 309+405, 290-45);
fill("#a9d18e");
triangle(220+405, 134-45, 158+405, 230-45, 281+405, 230-45);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click "Code Now" button

2

Type-in the above program  
in the Code Editor

3

Press "Run"  
and enjoy!

# Mushroom

Type-in JavaScript Program



```
noStroke();

// Background
fill("#a9d18e");
rect(0, 0, 800, 400);
fill("#843c0c");
rect(0, 400, 800, 200);

// Mushroom
fill("#ffc000");
rect(328, 314, 72, 212);
fill("#c00000");
arc(365, 314, 386, 396, 180, 360);
fill("white");
circle(245, 271, 20);
circle(285, 195, 18);
circle(341, 167, 12);
circle(423, 171, 14);
circle(491, 233, 14);
circle(335, 249, 13);
circle(393, 220, 22);
circle(443, 279, 23);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click "Code Now" button

2

Type-in the above program  
in the Code Editor

3

Press "Run"  
and enjoy!

# Pizza

## Type-in JavaScript Program

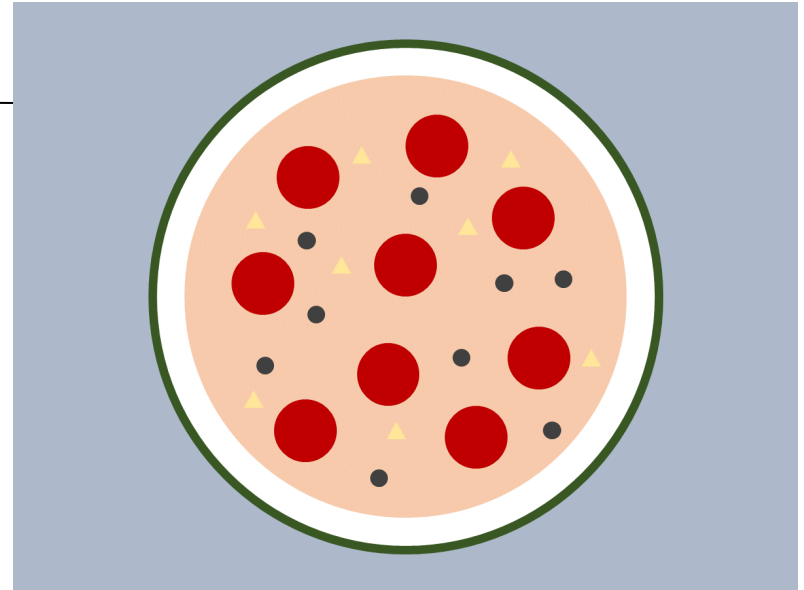
```
noStroke();  
background("#adb9ca");
```

```
// Plate and pizza  
fill("#385723");  
circle(400, 300, 260);  
fill("white");  
circle(400, 300, 254);  
fill("#f7c9ab");  
circle(400, 300, 225);
```

```
// Pepperoni  
fill("#c00000");  
circle(300, 180, 30);  
circle(433, 150, 30);  
circle(521, 221, 30);  
circle(536, 365, 30);  
circle(469, 445, 30);  
circle(296, 439, 30);  
circle(256, 289, 30);  
circle(399, 268, 30);  
circle(385, 381, 30);
```

```
// Olives  
fill("#404040");  
circle(257, 370, 9);  
circle(309, 319, 9);  
circle(300, 243, 9);  
circle(415, 196, 9);  
circle(501, 286, 9);  
circle(563, 282, 9);  
circle(457, 362, 9);  
circle(373, 485, 9);  
circle(257, 370, 9);  
circle(550, 435, 9);
```

```
// Pineapple  
fill("#ffe699");  
triangle(249, 212, 239, 229, 259, 229);  
triangle(357, 144, 347, 161, 367, 161);  
triangle(508, 150, 498, 167, 518, 167);  
triangle(337, 258, 327, 275, 347, 275);  
triangle(465, 219, 455, 236, 475, 236);  
triangle(391, 427, 381, 444, 401, 444);  
triangle(590, 353, 580, 370, 600, 370);  
triangle(438, 481, 428, 498, 448, 498);  
triangle(246, 395, 236, 412, 256, 412);
```



1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click "Code Now" button

2

Type-in the above program  
in the Code Editor

3

Press "Run"  
and enjoy!

# Mouse

## Type-in JavaScript Program



```
background("#a6cf87");
noStroke();

// Head and ears
fill("#c55a11");
triangle(242, 192, 556, 192, 400, 500);
circle(272, 171, 85);
circle(542, 171, 85);
fill("#242424");
triangle(347, 395, 453, 395, 400, 500);

// Eyes
fill("white");
circle(344, 260, 25);
circle(455, 260, 25);
fill("black");
circle(355, 268, 8);
circle(448, 268, 8);

// Whiskers
stroke("#242424");
strokeWeight(3);
line(282, 403, 345, 427);
line(287, 485, 345, 462);
line(450, 427, 502, 416);
line(442, 455, 504, 486);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click "Code Now" button

2

Type-in the above program  
in the Code Editor

3

Press "Run"  
and enjoy!



# Train

## Type-in JavaScript Program

```
// Background
noStroke();
fill("#8faadc");
rect(0, 0, 800, 340);
fill("#a9d18e");
rect(0, 340, 800, 260);

// Main part
fill("#c55a11");
triangle(127, 428, 252, 428, 252, 300);
rect(502, 215, 175, 213);
rect(283, 258, 14, 42);
fill("#ffc000");
rect(252, 300, 250, 128);

// Windows
fill("#f8cbad");
rect(523, 236, 55, 58);
rect(584, 236, 74, 58);
rect(523, 300, 135, 96);
```



```
// Wheels
fill("#262626");
circle(260, 454, 38);
circle(598, 454, 38);
fill("#d9d9d9");
circle(260, 454, 19);
circle(598, 454, 19);
fill("#262626");
rect(249, 443, 344, 10);

// Road and smoke
fill("#3b3838");
rect(0, 492, 800, 28);
fill("#f2f2f2");
ellipse(316, 209, 29, 20);
ellipse(377, 166, 46, 32);
ellipse(442, 114, 68, 47);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click “Code Now” button

2

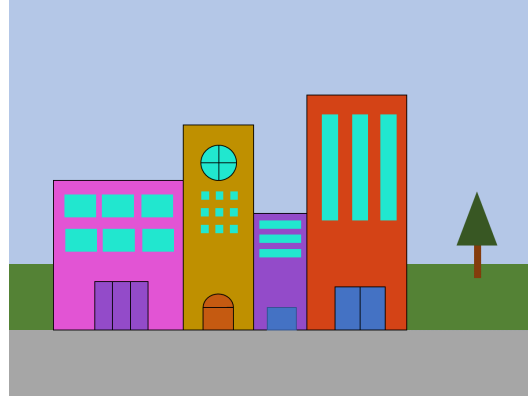
Type-in the above program  
in the Code Editor

3

Press “Run”  
and enjoy!

# City

## Type-in JavaScript Program



```
// Background
noStroke();
fill("#b4c7e7");
rect(0, 0, 800, 400);
fill("#548235");
rect(0, 400, 800, 100);
fill("#a5a5a5");
rect(0, 500, 800, 100);
```

```
// Building 1
stroke(1);
fill("#e254d4");
rect(67, 272, 197, 228);
fill("#21e7cf");
rect(84, 292, 48, 36);
rect(143, 292, 48, 36);
rect(201, 292, 48, 36);
rect(84, 347, 48, 36);
rect(143, 347, 48, 36);
rect(201, 347, 48, 36);
fill("#934bc9");
rect(132, 425, 27, 75);
rect(159, 425, 27, 75);
rect(186, 425, 27, 75);
```

```
// Building 2
fill("#bf9000");
rect(264, 187, 106, 313);
fill("#21e7cf");
circle(320, 248, 23);
square(292, 287, 13);
square(314, 287, 13);
square(337, 287, 13);
square(292, 314, 13);
square(314, 314, 13);
square(337, 314, 13);
square(292, 339, 13);
square(314, 339, 13);
square(337, 339, 13);
fill("#c55a11");
arc(320, 464, 45, 35, 180, 360);
rect(297, 464, 45, 36);
```

```
// Building 3
fill("#934bc9");
rect(370, 322, 80, 178);
fill("#21e7cf");
rect(379, 333, 63, 12);
rect(379, 354, 63, 12);
rect(379, 376, 63, 12);
fill("#4472c4");
rect(388, 465, 46, 35);
```

```
// Building 4
fill("#d44316");
rect(450, 142, 150, 358);
fill("#21e7cf");
rect(474, 171, 24, 160);
rect(521, 171, 24, 160);
rect(562, 171, 24, 160);
fill("#4472c4");
rect(495, 434, 37, 66);
rect(532, 434, 37, 66);
```

```
// Tree
noStroke();
fill("#843c0c");
rect(705, 370, 10, 50);
fill("#385723");
triangle(709, 291, 679, 370, 738, 370);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click "Code Now" button

2

Type-in the above program  
in the Code Editor

3

Press "Run"  
and enjoy!

# Cat

## Type-in JavaScript Program



```
// Background
noStroke();
fill("#4472c4");
rect(0, 0, 800, 500);
fill("#7030a0");
rect(0, 500, 800, 1000);

// Ears and body
fill("#f4b183");
triangle(318, 99, 318, 175, 359, 121);
triangle(483, 99, 483, 184, 435, 121);
circle(397, 415, 120);

// Head and feet
fill("#f8cbad");
triangle(397, 69, 138, 410, 655, 410);
circle(332, 525, 25);
circle(468, 525, 25);

// Eyes
fill("#44546a");
ellipse(339, 215, 29, 40);
ellipse(461, 215, 29, 40);

// Nose
fill("#7f7f7f");
triangle(360, 270, 440, 270, 402, 339);
noFill();
stroke("#7f7f7f");
arc(447, 338, 90, 68, 45, 180);
arc(357, 338, 90, 68, 0, 135);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click “Code Now” button

2

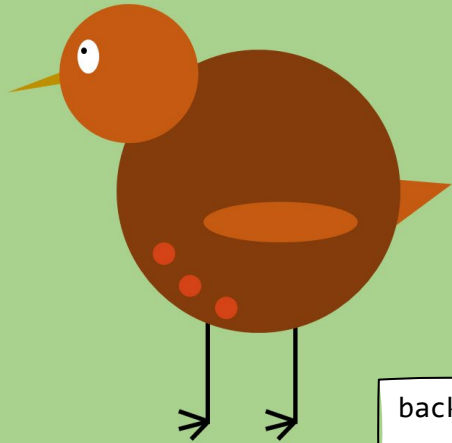
Type-in the above program  
in the Code Editor

3

Press “Run”  
and enjoy!

# Bird

## Type-in JavaScript Program



```
background("#a9d18e");

// Legs
strokeWeight(4);
stroke("Black");
line(380, 407, 380, 500);
line(380, 500, 355, 493);
line(380, 500, 354, 508);
line(380, 500, 365, 518);
line(460, 412, 460, 500);
line(460, 500, 434, 492);
line(460, 500, 434, 509);
line(460, 500, 445, 517);
```

```
// Tail and body
noStroke();
fill("#c55a11");
triangle(554, 280, 603, 284, 551, 323);
fill("#843c0c");
circle(426, 291, 130);
fill("#c55a11");
ellipse(447, 318, 142, 39);
fill("#d44316");
circle(339, 348, 10);
circle(364, 377, 10);
circle(397, 398, 10);

// Head
fill("#bf9000");
triangle(196, 199, 245, 180, 246, 190);
fill("#c55a11");
circle(308, 181, 64);
fill("White");
ellipse(270, 167, 20, 31);
fill("Black");
circle(267, 162, 4);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click "Code Now" button

2

Type-in the above program  
in the Code Editor

3

Press "Run"  
and enjoy!

# Big House

## Type-in JavaScript Program



```
// Background
noStroke();
background("#bdd7ee");
fill("#548235");
rect(0, 500, 800, 100);
```

```
// Sun
fill("#ffd966");
circle(77, 67, 46);
triangle(67, 130, 82, 129, 81, 185);
triangle(127, 109, 136, 97, 176, 136);
triangle(145, 53, 143, 37, 200, 35);
```

```
// House
fill("#ffc000");
rect(150, 397, 554, 103);
fill("#d44316");
rect(150, 252, 554, 145);
fill("#ed7d31");
triangle(134, 252, 428, 153, 720, 252);
fill("#934bc9");
triangle(506, 252, 612, 130, 720, 252);

// Porch
fill("#00b0f0");
rect(357, 397, 15, 113);
rect(481, 397, 15, 113);
rect(405, 438, 48, 62);
fill("#0070c0");
triangle(335, 397, 427, 316, 520, 397);

// Windows
fill("#c5e0b4");
rect(200, 423, 87, 50);
rect(581, 423, 87, 50);
fill("#f8cbad");
rect(218, 282, 50, 86);
rect(601, 282, 50, 86);
rect(403, 277, 47, 27);
fill("#e254d4");
circle(614, 206, 23);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click "Code Now" button

2

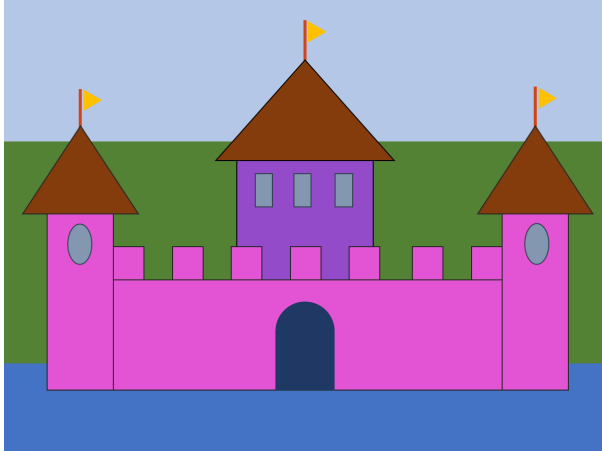
Type-in the above program  
in the Code Editor

3

Press "Run"  
and enjoy!

# Castle

## Type-in JavaScript Program



```
// Background
noStroke();
fill("#b4c7e7");
rect(0, 0, 800, 187);
fill("#548235");
rect(0, 187, 800, 296);
fill("#4472c4");
rect(0, 483, 800, 117);

// Castle walls
stroke("black");
fill("#e254d4");
rect(57, 284, 88, 233);
rect(145, 371, 517, 146);
rect(662, 284, 88, 233);
fill("#934bc9");
rect(310, 214, 182, 157);
fill("#e254d4");
rect(145, 328, 39, 43);
rect(224, 328, 39, 43);
rect(303, 328, 39, 43);
rect(381, 328, 39, 43);
rect(459, 328, 39, 43);
rect(543, 328, 39, 43);
rect(623, 328, 39, 43);
```

```
// Windows
fill("#8497b0");
ellipse(101, 325, 32, 55);
ellipse(709, 325, 32, 55);
rect(335, 230, 22, 43);
rect(386, 230, 22, 43);
rect(440, 230, 22, 43);

// Roof
fill("#843c0c");
triangle(25, 284, 101, 167, 179, 284);
triangle(281, 215, 401, 81, 519, 215);
triangle(630, 285, 706, 167, 783, 285);

// Flags
strokeWeight(4);
stroke("#d44316");
line(101, 119, 101, 167);
line(401, 27, 401, 81);
line(706, 115, 706, 167);
noStroke();
fill("#ffc000");
triangle(107, 146, 107, 119, 130, 132);
triangle(405, 56, 405, 27, 427, 43);
triangle(711, 142, 711, 115, 743, 131);

// Door
fill("#203864");
rect(362, 433, 78, 84);
arc(401, 433, 78, 65, 180, 360);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click "Code Now" button

2

Type-in the above program  
in the Code Editor

3

Press "Run"  
and enjoy!

# Bear

## Type-in JavaScript Program



```
background("#b4c7e7");

// Head and ears
noStroke();
fill("#843c0c");
circle(281, 137, 56);
circle(527, 137, 56);
fill("#c55a11");
circle(406, 300, 162);

// Eyes
fill("white");
circle(346, 224, 31);
circle(485, 224, 31);
fill("black");
circle(358, 240, 11);
circle(473, 240, 11);

// Nose and mouth
fill("#843c0c");
circle(406, 395, 68);
fill("#bcb9b6");
rect(406, 369, 3, 94);
fill("black");
circle(406, 349, 22);

// Garment
fill("#548235");
triangle(257, 509, 257, 420, 403, 465);
triangle(561, 508, 561, 422, 413, 465);
fill("#21e7cf");
circle(407, 465, 8);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click "Code Now" button

2

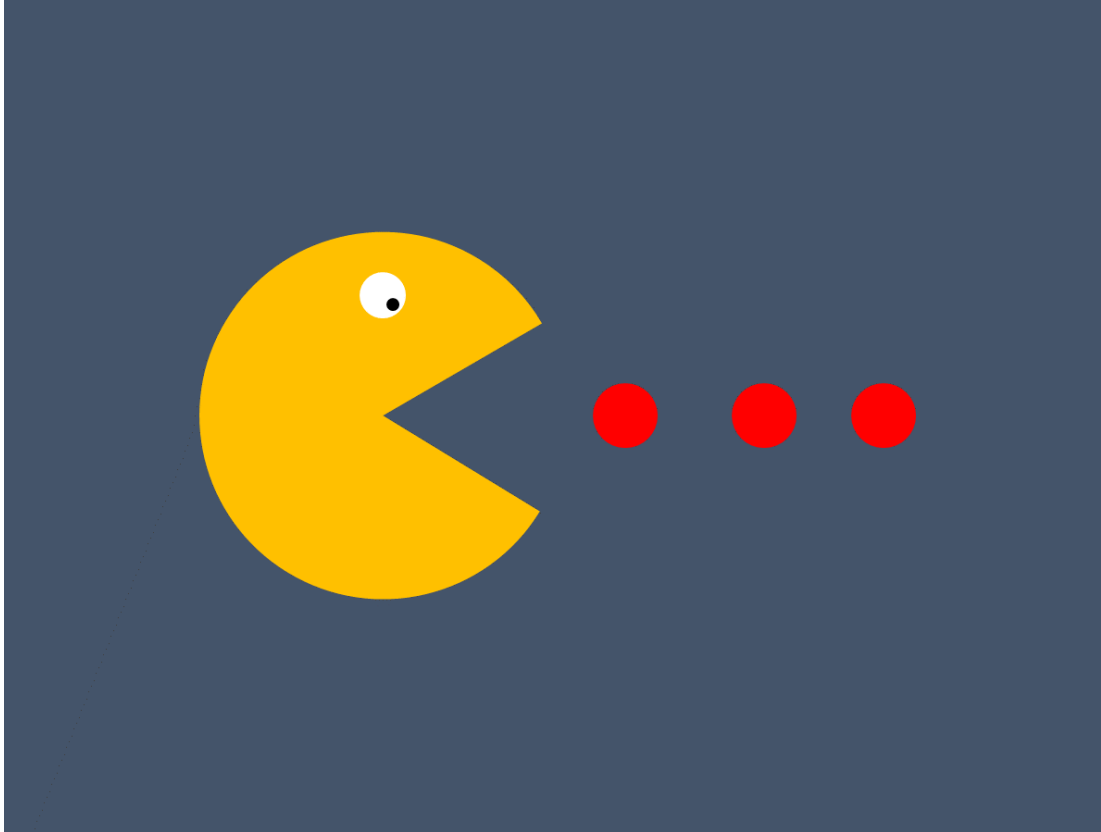
Type-in the above program  
in the Code Editor

3

Press "Run"  
and enjoy!

# Pac Man

## Type-in JavaScript Program



```
background("#44546a");  
noStroke();  
  
// Pacman  
fill("#ffc000");  
arc(270, 300, 264, 264, 30, 330);  
  
// Eye  
fill("white");  
circle(272, 213, 16);  
fill("black");  
circle(280, 219, 5);  
  
// Food  
fill("red");  
circle(448, 300, 24);  
circle(548, 300, 24);  
circle(648, 300, 24);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click "Code Now" button

2

Type-in the above program  
in the Code Editor

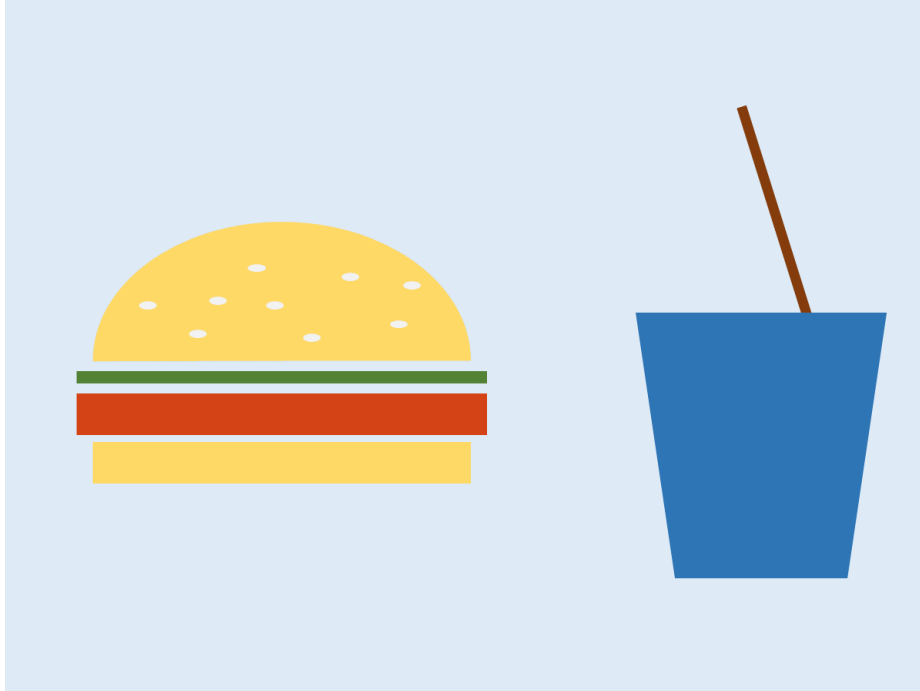
3

Press "Run"  
and enjoy!



# Fast Food

## Type-in JavaScript Program



```
background("#deebf7");  
noStroke();
```

```
// Bun  
fill("#ffd966");  
arc(245, 311, 327, 238, 180, 360);  
rect(80, 380, 325, 33);
```

```
// Salad and meat  
fill("#548235");  
rect(63, 320, 355, 9);  
fill("#d44316");  
rect(63, 340, 355, 35);
```

```
// Seeds  
fill("white");  
ellipse(124, 263, 15, 7);  
ellipse(167, 288, 15, 7);  
ellipse(185, 259, 15, 7);  
ellipse(218, 231, 15, 7);  
ellipse(234, 263, 15, 7);  
ellipse(266, 291, 15, 7);  
ellipse(299, 238, 15, 7);  
ellipse(340, 279, 15, 7);  
ellipse(353, 245, 15, 7);  
  
// Drink  
strokeWeight(4);  
stroke("#843c0c");  
line(638, 93, 695, 274);  
noStroke();  
fill("#2e75b6");  
rect(571, 269, 148, 230);  
triangle(538, 269, 571, 269, 571, 499);  
triangle(719, 269, 719, 499, 752, 269);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click "Code Now" button

2

Type-in the above program  
in the Code Editor

3

Press "Run"  
and enjoy!

# Dog

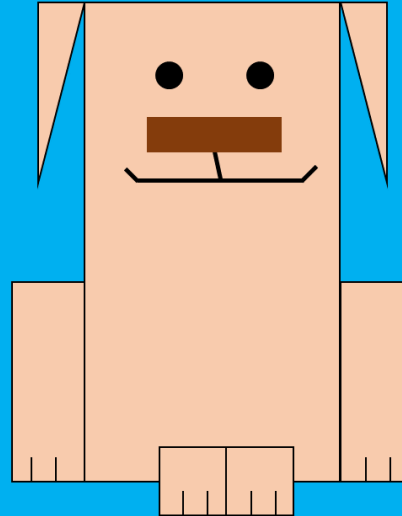
## Type-in JavaScript Program

```
background("#00b0f0");

// Head, body and ears
fill("#f8cbad");
rect(315, 95, 200, 380);
triangle(279, 95, 315, 95, 279, 240);
triangle(515, 95, 551, 95, 551, 240);

// Back legs
rect(257, 315, 58, 160);
line(274, 454, 274, 475);
line(293, 454, 293, 475);
rect(515, 315, 58, 160);
line(538, 454, 538, 475);
line(557, 454, 557, 475);

// Front legs
rect(375, 445, 52, 55);
line(393, 481, 393, 499);
line(412, 481, 412, 499);
rect(375 + 52, 445, 52, 55);
line(393 + 52, 481, 393 + 52, 499);
line(412 + 52, 481, 412 + 52, 499);
```



```
// Mouth, nose, eyes
strokeWeight(3);
line(347, 226, 356, 235);
line(356, 235, 487, 235);
line(487, 235, 498, 224);
line(423, 235, 417, 211);
noStroke();
fill("#843c0c");
rect(364, 185, 106, 27);
fill("black");
circle(382, 152, 11);
circle(454, 152, 11);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click "Code Now" button

2

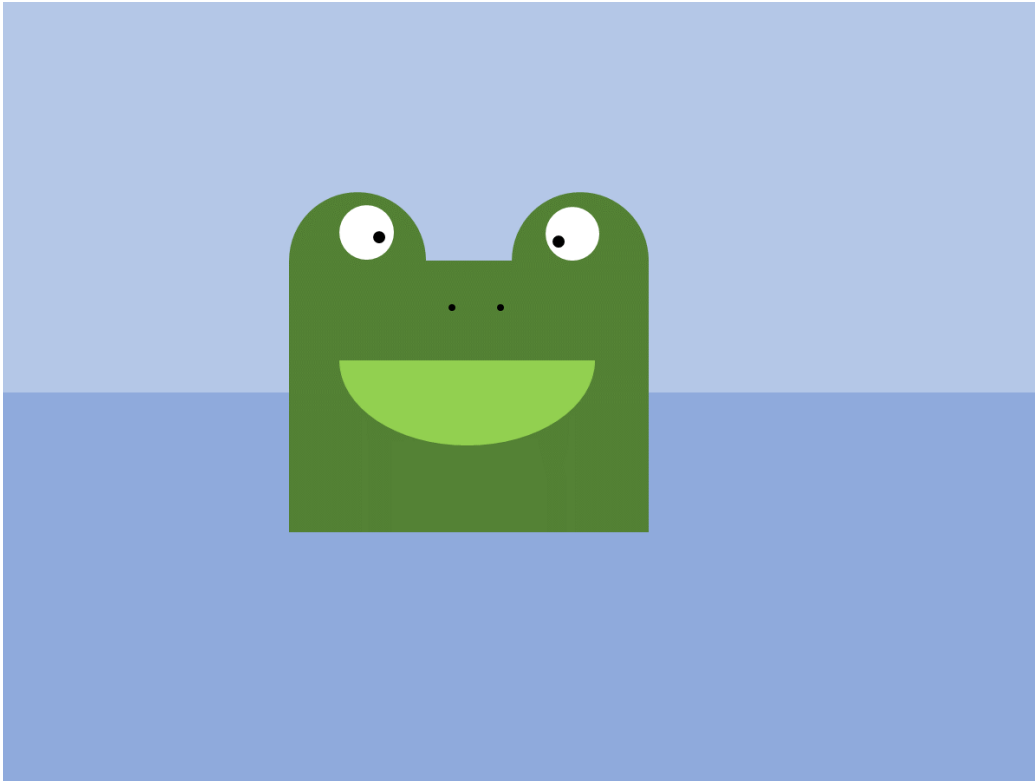
Type-in the above program  
in the Code Editor

3

Press "Run"  
and enjoy!

# Frog

## Type-in JavaScript Program



```
// Background
noStroke();
fill("#b4c7e7");
rect(0, 0, 800, 300);
fill("#8faadc");
rect(0, 300, 800, 600);

// Body and eyes
fill("#548235");
rect(220, 200, 276, 206);
arc(274, 200, 108, 108, 180, 360);
arc(442, 200, 108, 108, 180, 360);
fill("white");
circle(279, 176, 21);
circle(437, 176, 21);
fill("black");
circle(289, 180, 6);
circle(428, 183, 6);

// Nose and mouth
circle(345, 233, 3);
circle(382, 233, 3);
fill("#92d050");
arc(358, 274, 197, 134, 0, 180);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click "Code Now" button

2

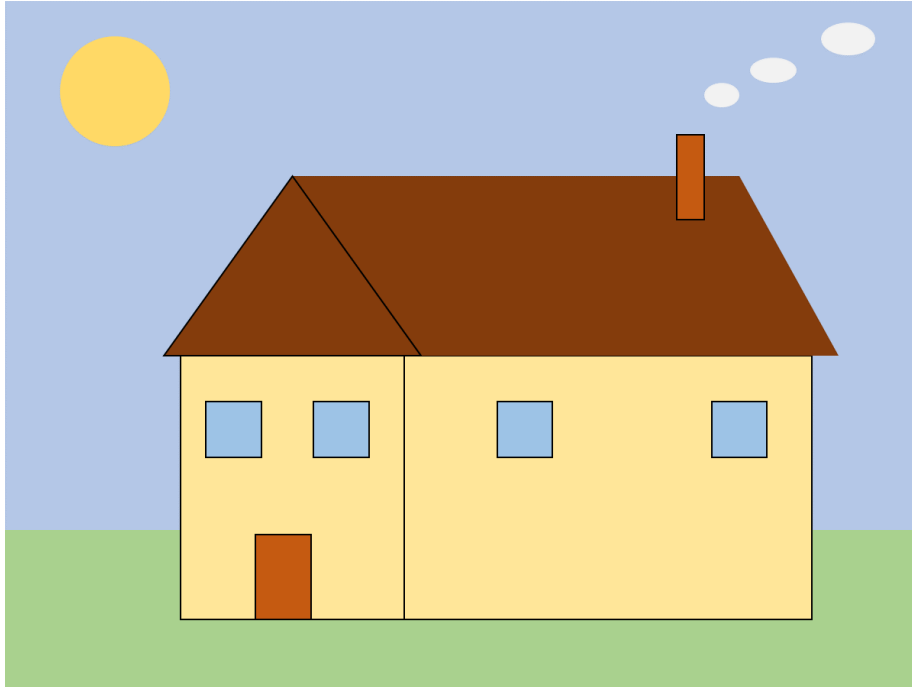
Type-in the above program  
in the Code Editor

3

Press "Run"  
and enjoy!

# House 3

## Type-in JavaScript Program



```
// Background and sun
noStroke();
fill("#b4c7e7");
rect(0, 0, 800, 460);
fill("#a9d18e");
rect(0, 460, 800, 140);
fill("#ffd966");
circle(98, 82, 48);
```

```
// Walls
stroke("black");
fill("#ffe699");
rect(153, 309, 195, 232);
rect(348, 309, 355, 232);
```

```
// Door and windows
fill("#c55a11");
rect(219, 464, 51, 77);
fill("#9dc3e6");
square(175, 348, 48);
square(270, 348, 48);
square(430, 348, 48);
square(617, 348, 48);

// Roof
fill("#843c0c");
noStroke();
rect(251, 152, 389, 157);
triangle(640, 152, 640, 309, 728, 309);
stroke("black");
triangle(251, 152, 139, 309, 363, 309);

// Horn and smoke
fill("#c55a11");
rect(587, 116, 24, 75);
fill("#f2f2f2");
noStroke();
ellipse(624, 80, 30, 21);
ellipse(671, 60, 40, 21);
ellipse(736, 32, 48, 28);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click "Code Now" button

2

Type-in the above program  
in the Code Editor

3

Press "Run"  
and enjoy!

# Ladybug

## Type-in JavaScript Program

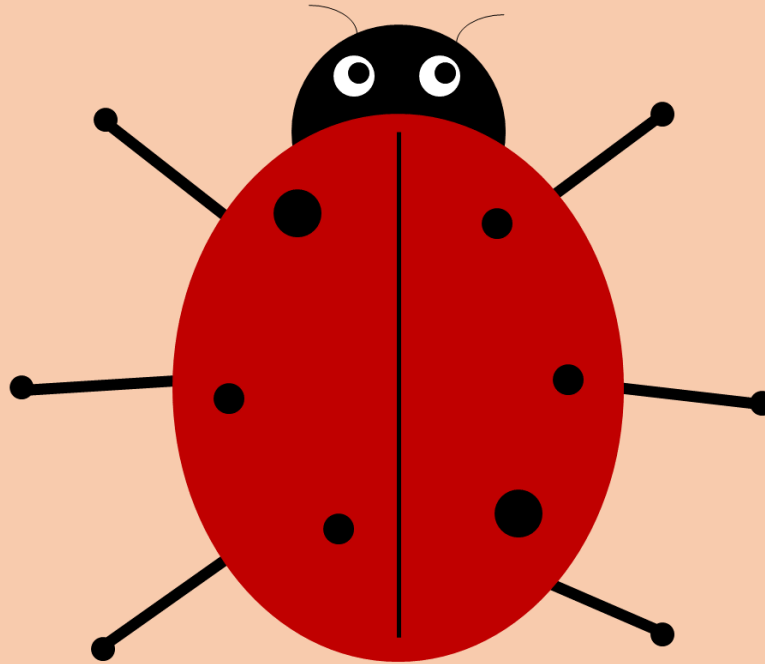
```
background("#f8cbad");
```

```
// Legs
```

```
strokeWeight(8);  
fill("black");  
line(203, 138, 299, 214);  
circle(203, 138, 9);  
line(139, 347, 259, 339);  
circle(139, 347, 9);  
line(199, 547, 302, 474);  
circle(199, 547, 9);  
line(634, 132, 548, 198);  
circle(634, 132, 9);  
line(711, 357, 601, 344);  
circle(711, 357, 9);  
line(634, 535, 548, 495);  
circle(634, 535, 9);
```

```
// Head
```

```
noStroke();  
circle(431, 146, 83);  
fill("white");  
circle(395, 102, 16);  
circle(462, 102, 16);  
fill("black");  
circle(399, 100, 9);  
circle(466, 100, 9);
```



```
// Antenas
```

```
stroke("black");  
strokeWeight(1);  
noFill();  
arc(514, 77, 76, 44, 180, 270);  
arc(360, 77, 76, 44, 270, 360);
```

```
// Body
```

```
fill("#c00000");  
noStroke();  
ellipse(431, 350, 351, 426);  
strokeWeight(3);  
stroke("black");  
line(431, 157, 431, 537);  
fill("black");  
circle(351, 208, 19);  
circle(297, 352, 11);  
circle(383, 452, 13);  
circle(505, 217, 14);  
circle(562, 338, 11);  
circle(522, 442, 19);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click "Code Now" button

2

Type-in the above program  
in the Code Editor

3

Press "Run"  
and enjoy!

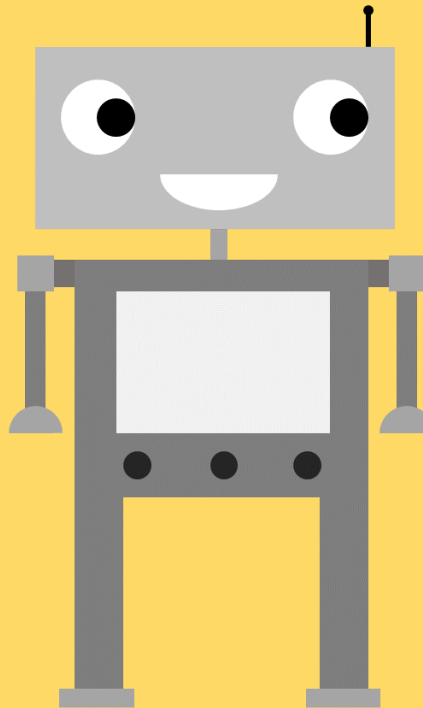
# Robot 2

## Type-in JavaScript Program

```
background("#ffd966");
noStroke();

// Head
fill("#bfbfbf");
rect(264, 63, 281, 141);
fill("white");
arc(404, 163, 91, 56, 0, 180);
circle(311, 117, 30);
circle(494, 117, 30);
fill("black");
circle(327, 117, 15);
circle(509, 117, 15);
rect(522, 38, 4, 25);
circle(524, 34, 8);
fill("#a5a5a5");
rect(401, 204, 13, 25);

// Body
fill("#808080");
rect(295, 229, 228, 185);
fill("#f2f2f2");
rect(327, 253, 167, 111);
fill("black");
circle(344, 389, 11);
circle(411, 389, 11);
circle(476, 389, 11);
```



```
// Legs
fill("#808080");
rect(295, 414, 37, 148);
rect(486, 414, 37, 148);
fill("#a4a4a4");
rect(283, 562, 57, 14);
rect(476, 562, 57, 14);

// Arms
fill("#767171");
rect(279, 229, 16, 20);
rect(523, 229, 16, 20);
fill("#7f7f7f");
rect(256, 253, 16, 93);
rect(546, 253, 16, 93);
fill("#a5a5a5");
rect(251, 225, 28, 28);
rect(539, 225, 28, 28);
arc(263, 364, 41, 42, 180, 360);
arc(554, 364, 41, 42, 180, 360);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click "Code Now" button

2

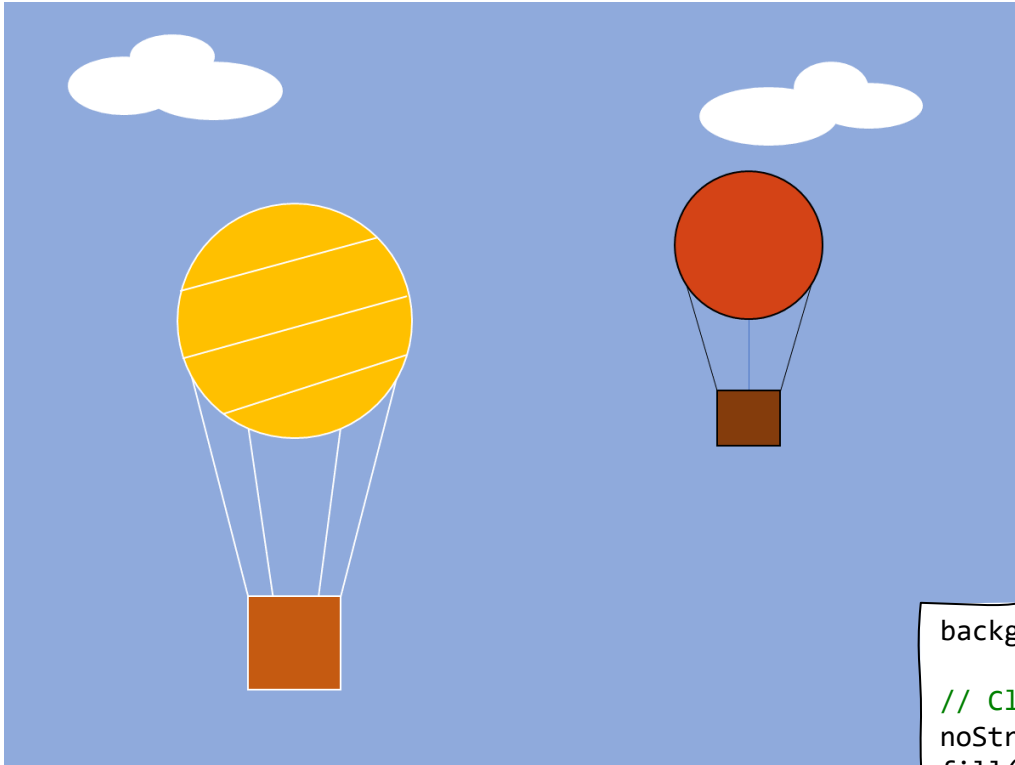
Type-in the above program  
in the Code Editor

3

Press "Run"  
and enjoy!

# Hot Air Balloons

Type-in JavaScript Program



```
background("#8faadc");
```

```
// Clouds  
noStroke();  
fill("white");  
ellipse(94, 66, 80, 48);  
ellipse(132, 42, 67, 34);  
ellipse(169, 71, 110, 45);  
ellipse(600, 89, 109, 47);  
ellipse(650, 67, 60, 46);  
ellipse(679, 80, 85, 36);
```

```
// Yellow balloon  
strokeWeight(1);  
stroke("white");  
fill("#ffc000");  
circle(227, 251, 93);  
line(140, 225, 291, 184);  
line(141, 287, 316, 229);  
line(172, 324, 315, 276);  
line(145, 296, 191, 465);  
line(192, 337, 211, 465);  
line(263, 337, 247, 465);  
line(309, 295, 263, 465);  
fill("#c55a11");  
square(191, 465, 72);
```

```
// Red balloon  
stroke("#101010");  
fill("#d44316");  
circle(584, 190, 58);  
line(536, 223, 559, 303);  
line(584, 248, 584, 303);  
line(632, 221, 609, 303);  
fill("#843c0c");  
square(559, 303, 50);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click "Code Now" button

2

Type-in the above program  
in the Code Editor

3

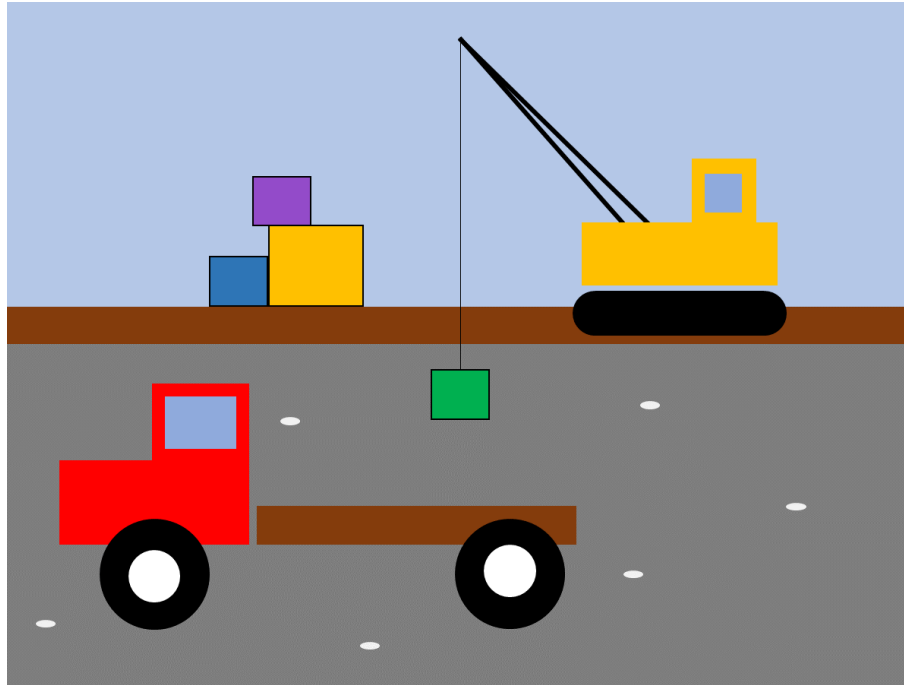
Press "Run"  
and enjoy!

# Trucks

## Type-in JavaScript Program

```
// Background
noStroke();
fill("#b4c7e7");
rect(0, 0, 800, 267);
fill("#843c0c");
rect(0, 267, 800, 34);
fill("#7f7f7f");
rect(0, 301, 800, 299);
fill("#f1f1f1");
ellipse(33, 545, 18, 7);
ellipse(249, 367, 18, 7);
ellipse(320, 563, 18, 7);
ellipse(565, 352, 18, 7);
ellipse(551, 501, 18, 7);
ellipse(693, 441, 18, 7);
```

```
// Flatbed truck
fill("red");
rect(46, 401, 167, 74);
rect(127, 334, 86, 67);
fill("#8faadc");
rect(139, 346, 62, 45);
fill("#843c0c");
rect(219, 440, 281, 35);
fill("black");
circle(129, 502, 49);
circle(441, 502, 49);
fill("white");
circle(129, 502, 23);
circle(441, 502, 23);
```



```
// Crane truck
stroke("black");
strokeWeight(3);
line(399, 32, 540, 194);
line(399, 32, 563, 194);
strokeWeight(1);
line(399, 32, 399, 321);
noStroke();
fill("#ffc000");
rect(505, 193, 171, 55);
rect(602, 137, 57, 56);
fill("#8faadc");
rect(615, 150, 31, 32);
fill("black");
circle(512, 272, 19);
circle(670, 272, 19);
rect(512, 253, 158, 38);
```

```
// Packages
stroke("black");
fill("#00b050");
square(375, 321, 43);
fill("#2e75b6");
square(178, 223, 43);
fill("#ffc000");
square(221, 196, 70);
fill("#934bc9");
square(210, 153, 43);
```

1

Sign-in at [codefroggy.com](https://codefroggy.com)  
and click "Code Now" button

2

Type-in the above program  
in the Code Editor

3

Press "Run"  
and enjoy!



## Credits

Kano computer kit examples

Khan academy

<https://www.youtube.com/watch?v=mrG33P1lwdI>

<https://www.youtube.com/watch?v=-96ajr1P8BM>

<http://howtodrawdat.com/how-to-draw-a-simple-cat-with-simple-shapes-tutorial-for-children-and-preschoolers/>

<http://www.eyedrawit.com/tutorials/>

<https://www.amazon.com/Lets-Draw-House-Shapes/dp/1404227954>

<http://kiddopedia.net/how-to-draw-a-castle-step-by-step-for-kids/>

<https://www.how-to-draw-funny-cartoons.com/cartoon-dog.html>

<https://www.youtube.com/watch?v=YZG704D-6O0>

<https://www.pinterest.com/pin/311874342921041781/>

<https://www.easypeasyandfun.com/how-to-draw-a-ladybug/>

<https://paintingvalley.com/easy-ladybug-drawing>

<https://design.tutsplus.com/tutorials/how-to-create-a-cute-robot-game-sprite-using-ssr-in-adobe-illustrator--vector-8442>

<https://www.youtube.com/watch?v=QWoL3WBZT7g>