

Draw with code

Type-in JavaScript programs for young coders

Card 1: Flower

```
// Background
noStroke();
fill(188, 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);
```

Card 2: Car

```
// Background
noStroke();
fill("#d9eaf3");
rect(0, 0, 800, 300);
fill("#8fa3dc");
rect(0, 300, 800, 600);

// Mast
fill("#88420c");
rect(280, 36, 16, 321);
fill("#ff9966");
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("#d97033");
triangle(529, 52, 578, 52, 553, 67);
triangle(631, 71, 677, 71, 654, 85);
triangle(723, 121, 766, 121, 743, 135);
```

Card 3: Landscape

```
// Background
noStroke();
fill("#d9eaf3");
rect(0, 0, 800, 300);
fill("#8fa3dc");
rect(0, 300, 800, 600);

// Mast
fill("#88420c");
rect(280, 36, 16, 321);
fill("#ff9966");
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("#d97033");
triangle(529, 52, 578, 52, 553, 67);
triangle(631, 71, 677, 71, 654, 85);
triangle(723, 121, 766, 121, 743, 135);
```

Steps:

1. Open codeguppy.com code editor
2. Type in the program in the code editor
3. Run the program and observe the effect

Early Preview Edition

Preporuka za - Sat programiranja- Klubove programiranja – Programiranje kod kuće

Kome je namenjen priručnik?

Ovaj priručnik predstavlja pomoćno sredstvo kodiranja za roditelje, nastavnike informatike i instruktore klubova programiranja. Knjižica sadrži zabavne JavaScript programe za mlade programere.

Ovaj priručnik je veoma dragocen izvor za upoznavanje dece sa programiranjem. Za decu... ili roditelje/vaspitače nije potrebno prethodno iskustvo kodiranja.

Kako koristiti ovaj priručnik?

Proverite da sva deca imaju otvorene besplatne naloge na codeguppy.com a zatim:

- Odšampajte ovu knjižicu i podelite odšampane programe sa decom. Svaka stranica sadrži ceo program, tako da možete da delite samo jednu po jednu stranicu sa detetom.
- Zamolite decu da ukucaju programe u uređivač koda na codeguppy.com a zatim da ga pokrenu pomoću dugmeta “Run”.
- Podstaknite decu da prilagode program promenom boja ili dodavanjem dodatnih oblika.

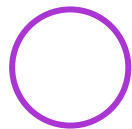
Saveti za unos programa

Programi za kucanje sa komada papira odličan su način da naučite decu o programiranju. Pošto kucanje programa zahteva pažnju na detalje, deca će takođe razviti korisne veštine osim programiranja.

Evo nekoliko saveta kako biste bili sigurni da su programi ispravno otkucani:

- Zamolite decu da veoma pažljivo otkucaju svaki program tačno onako kako je napisano na papiru. Recite im da ne preskaču nijedno slovo, broj ili znak interpunkcije!
- Programi razlikuju velika i mala slova. Zamolite decu da ukucaju sve komande koristeći ista velika i mala slova kao što je na papiru.
- Da biste izbegli nagomilavanje grešaka, možete da uputite decu da povremeno pokreću program, ali tek nakon što se trenutna linija koda završi. Pokretanje programa je jednostavno kao pritiskanje velikog dugmeta „Run“ u gornjem desnom uglu uređivača koda.
- Ako računar ispisuje greške, molimo vas da zajedno sa decom proverite upisani program u odnosu na program na papiru.

Grafičke komande



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)

Podesite boju za crtanje

noStroke()
stroke(color)
strokeWeight(weight)

Podesite boju za ispunu

background(color)
fill(color)
noFill()

Specifične boje

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

Popularne boje

- 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, Slate Blue, 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, Old Lace, FloralWhite, Ivory, AntiqueWhite, Linen, LavenderBlush, MistyRose
- Gainsboro, LightGray, Silver, DarkGray, Gray, DimGray, LightSlateGray, SlateGray, DarkSlateGray, Black

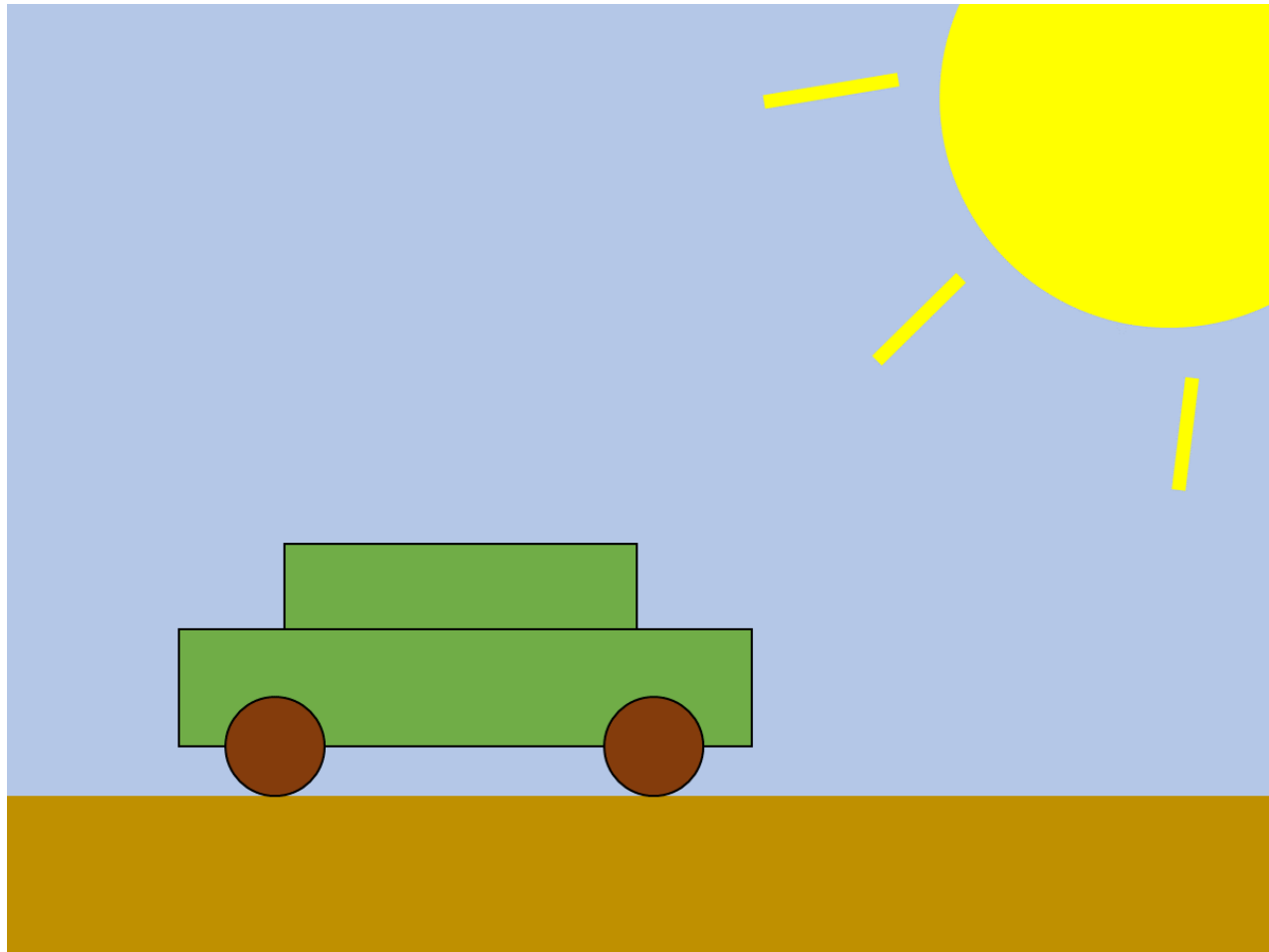
Auto

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

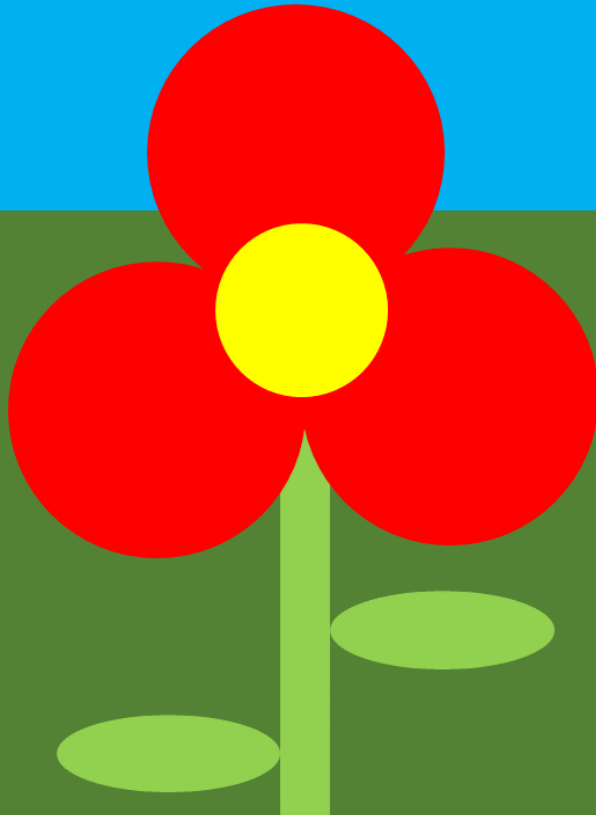
Ukucajte gornji program u uređivač koda

3

Pritisni "Run" i uživaj!

Cvet

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

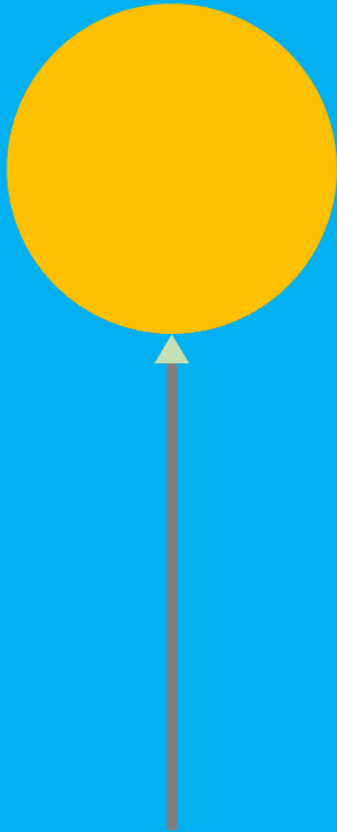
Ukucajte gornji program u uređivač koda

3

Pritisni "Run" i uživaj!

Balon

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

Ukucajte gornji program u uređivač koda

3

Pritisni "Run" i uživaj!

Sneško

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

Ukucajte gornji program u uređivač koda

3

Pritisni "Run" i uživaj!

Kuća

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

Ukucajte gornji program u uređivač koda

3

Pritisni "Run" i uživaj!

Kuća 2

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

Ukucajte gornji program u uređivač koda

3

Pritisni "Run" i uživaj!

Drvo

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

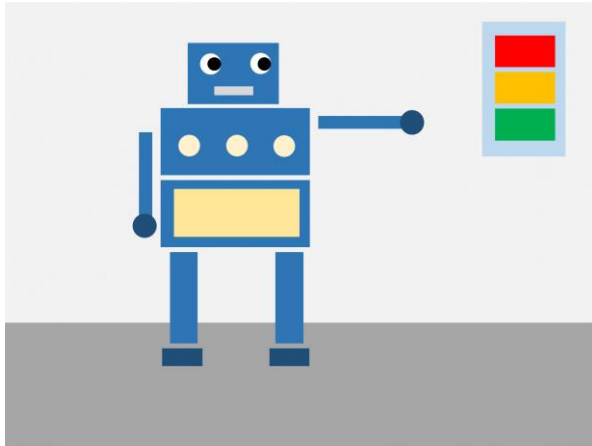
Ukucajte gornji program u uređivač koda

3

Pritisni "Run" i uživaj!

Robot

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

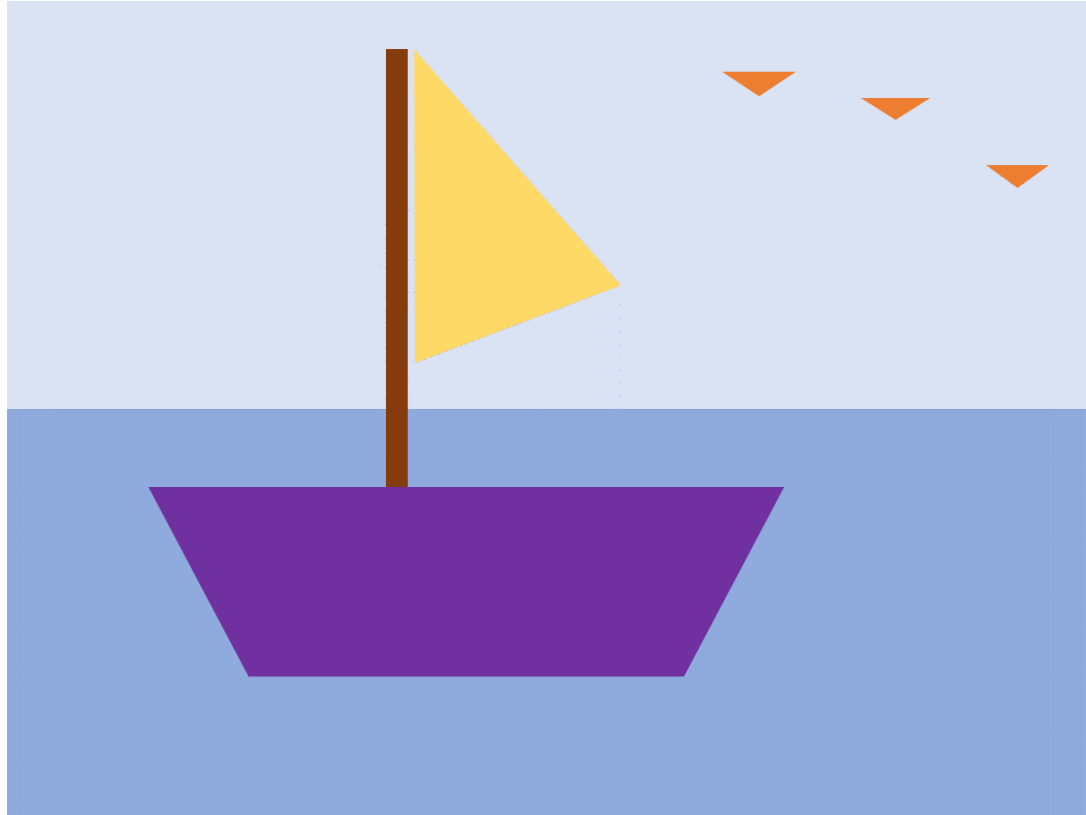
Ukucajte gornji program u uređivač koda

3

Pritisni "Run" i uživaj!

Čamac

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

Ukucajte gornji program u uređivač koda

3

Pritisni "Run" i uživaj!

Smajli

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

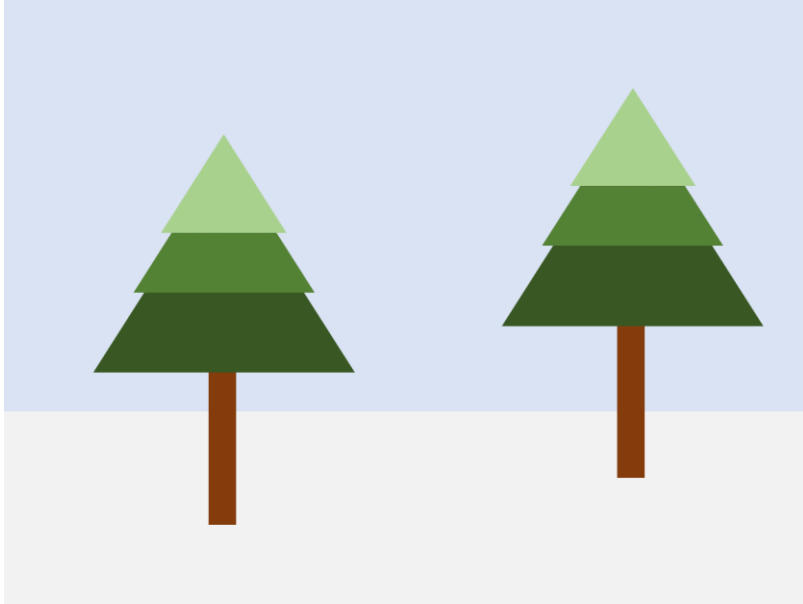
Ukucajte gornji program u uređivač koda

3

Pritisni "Run" i uživaj!

Jele

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

Ukucajte gornji program u uređivač koda

3

Pritisni "Run" i uživaj!

Pečurka

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

Ukucajte gornji program u uređivač koda

3

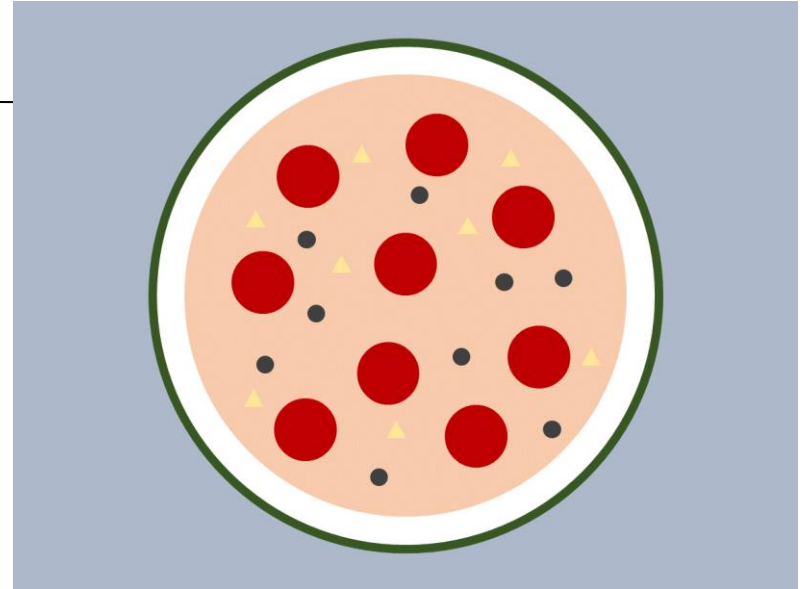
Pritisni "Run" i uživaj!

Pica

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

Ukucajte gornji program u uređivač koda

3

Pritisni "Run" i uživaj!

Miš

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

Ukucajte gornji program u uređivač koda

3

Pritisni "Run" i uživaj!

Voz

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

Ukucajte gornji program u uređivač koda

3

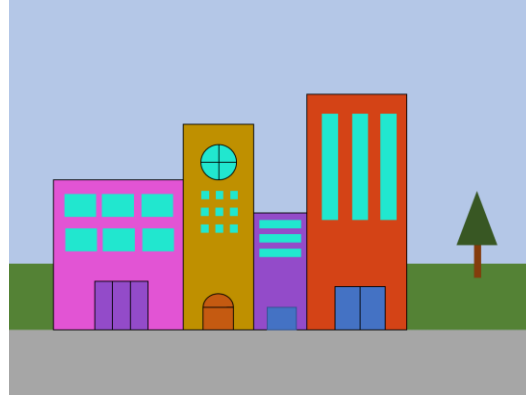
Pritisni "Run" i uživaj!

Град

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

Ukucajte gornji program u uređivač koda

3

Pritisni "Run" i uživaj!

Maca

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

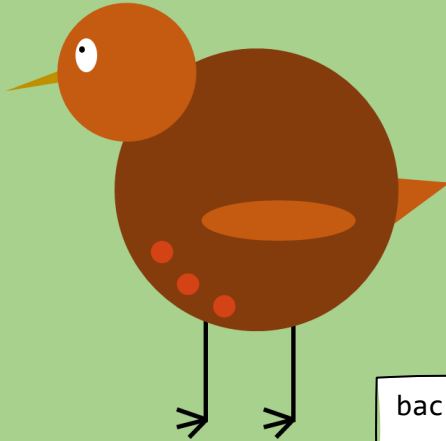
Ukucajte gornji program u uređivač koda

3

Pritisni "Run" i uživaj!

Ptica

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

Ukucajte gornji program u uređivač koda

3

Pritisni "Run" i uživaj!

Zgrada

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

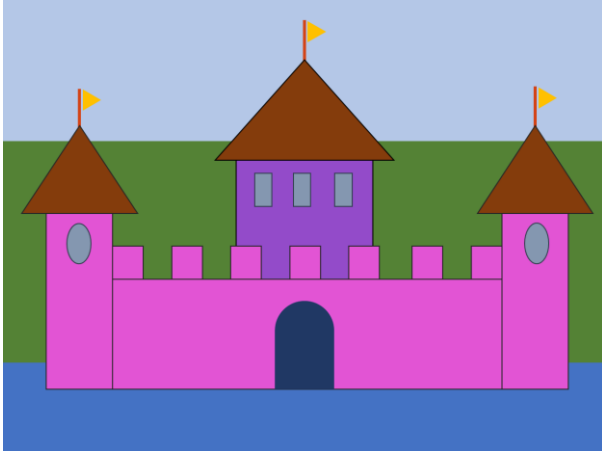
Ukucajte gornji program u uređivač koda

3

Pritisni "Run" i uživaj!

Dvorac

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

Ukucajte gornji program u uređivač koda

3

Pritisni "Run" i uživaj!

Meda

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

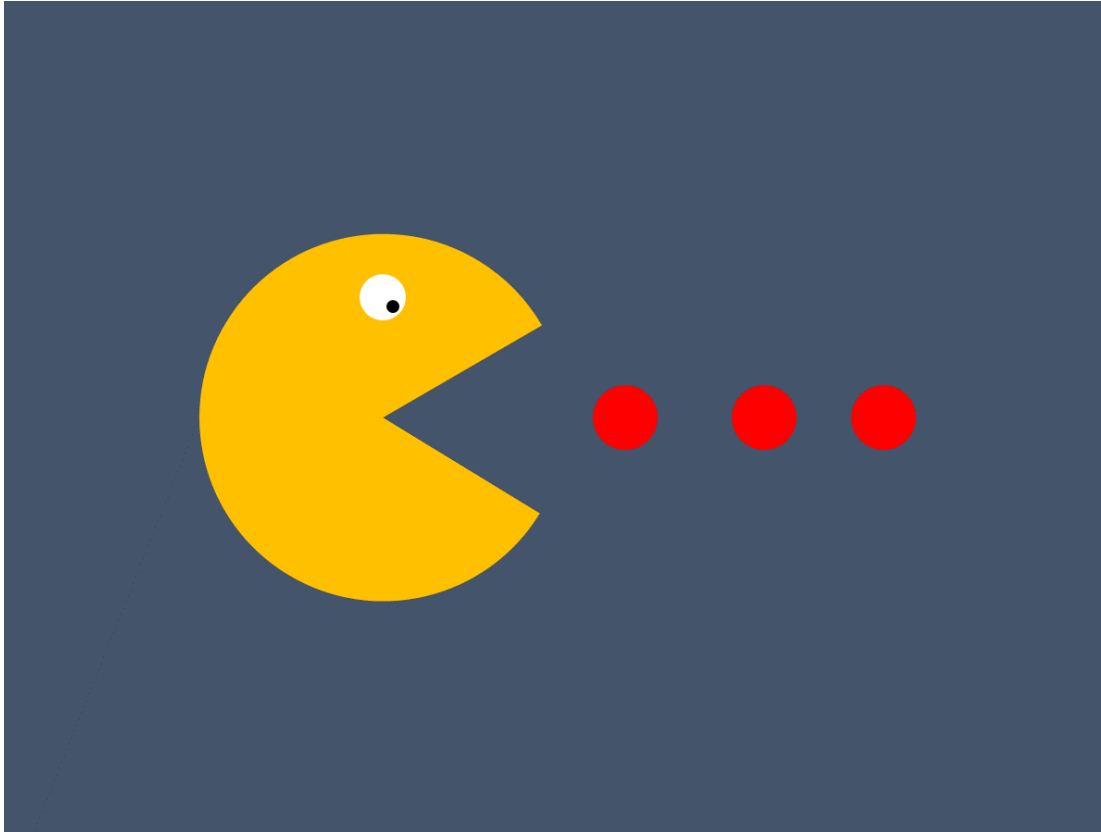
Ukucajte gornji program u uređivač koda

3

Pritisni "Run" i uživaj!

Pakmen

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

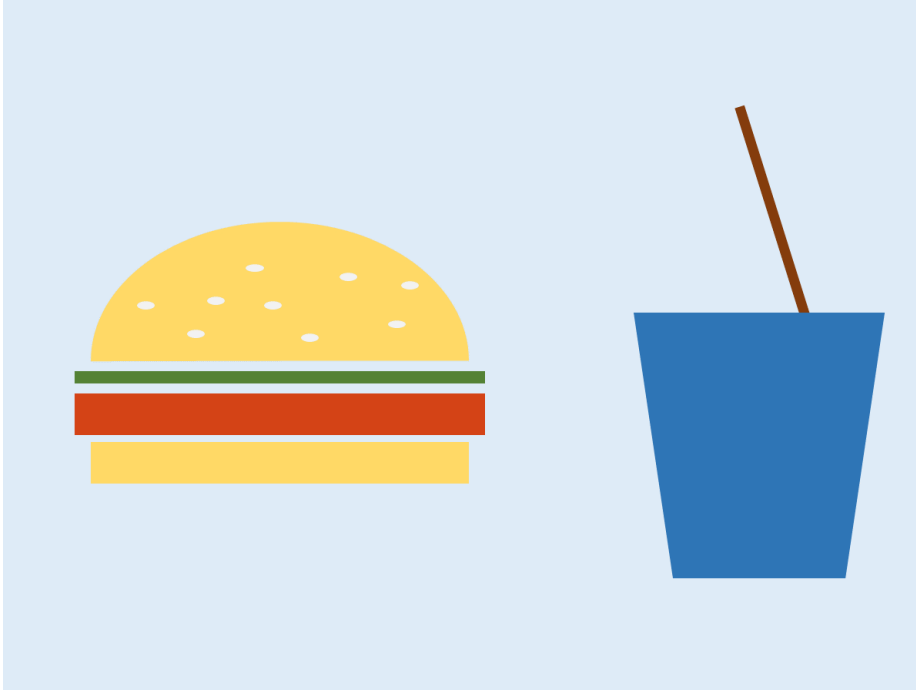
Ukucajte gornji program u uređivač koda

3

Pritisni "Run" i uživaj!

Brza hrana

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

Ukucajte gornji program u uređivač koda

3

Pritisni "Run" i uživaj!

Pas

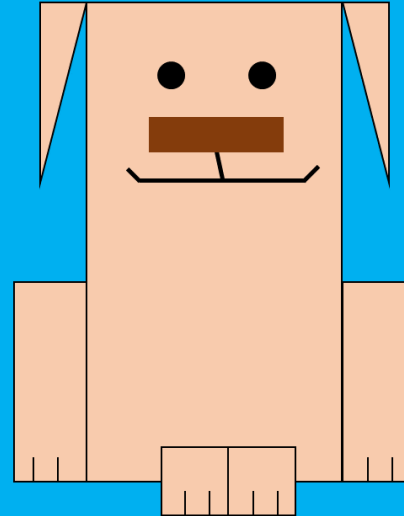
Unesi JavaScript program

```
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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

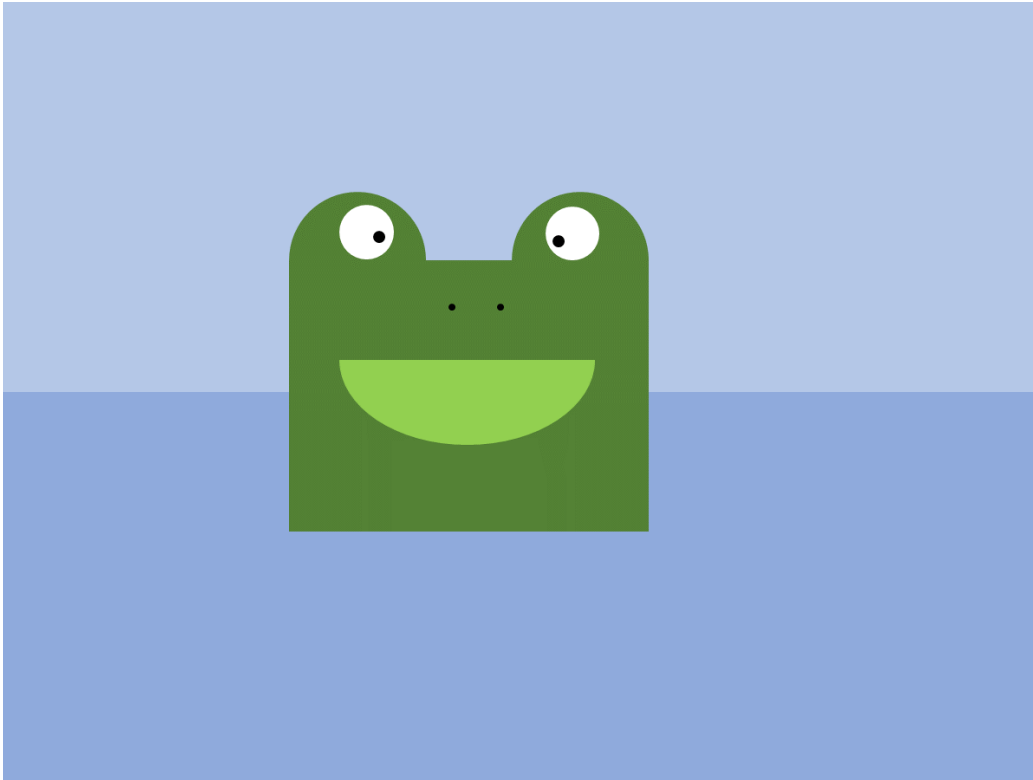
Ukucajte gornji program u uređivač koda

3

Pritisni "Run" i uživaj!

Žaba

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

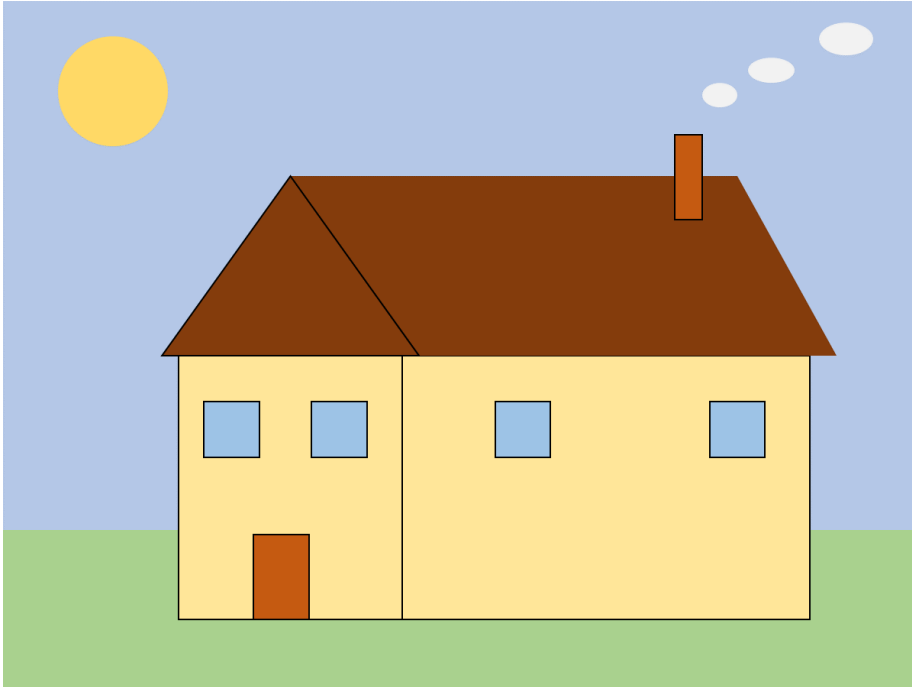
Ukucajte gornji program u uređivač koda

3

Pritisni "Run" i uživaj!

Kuća 3

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

Ukucajte gornji program u uređivač koda

3

Pritisni "Run" i uživaj!

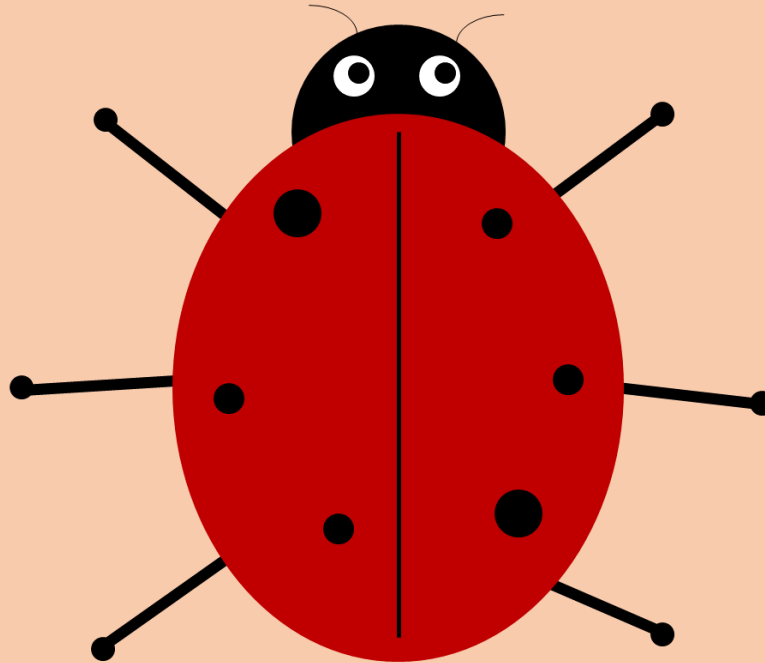
Bubamara

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

Ukucajte gornji program u uređivač koda

3

Pritisni "Run" i uživaj!

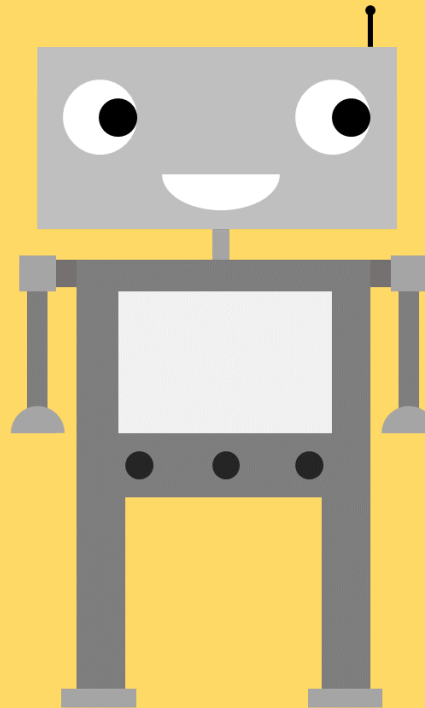
Robot 2

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

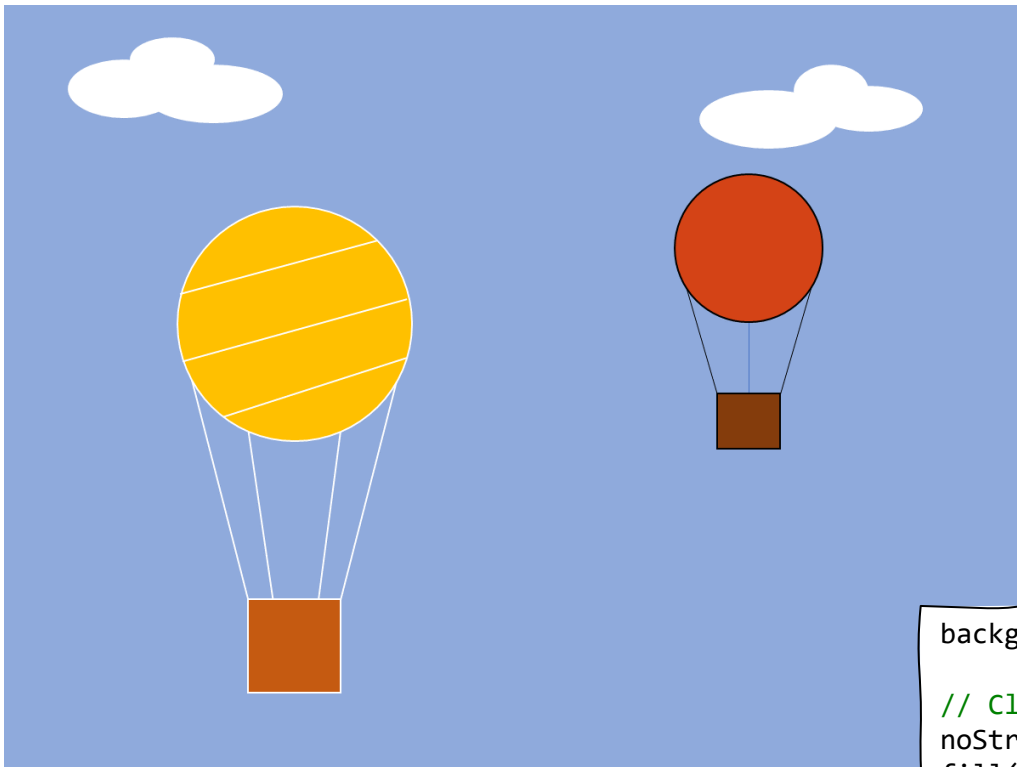
Ukucajte gornji program u uređivač koda

3

Pritisni "Run" i uživaj!

Baloni na vruć vazduh

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

Ukucajte gornji program u uređivač koda

3

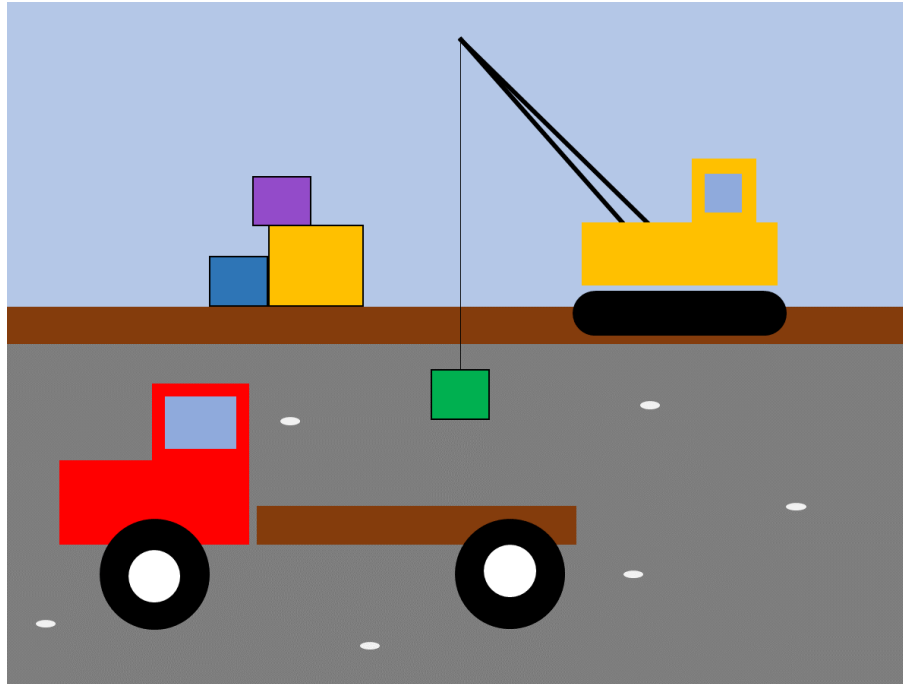
Pritisni "Run" i uživaj!

Kamioni

Unesi 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

Uloguj se na codeguppy.com i klikni na dugme "Code Now"

2

Ukucajte gornji program u uređivač koda

3

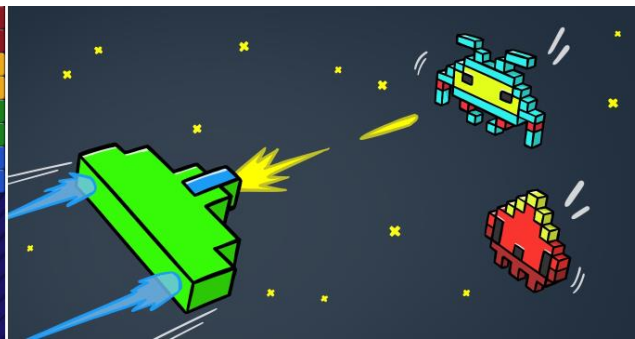
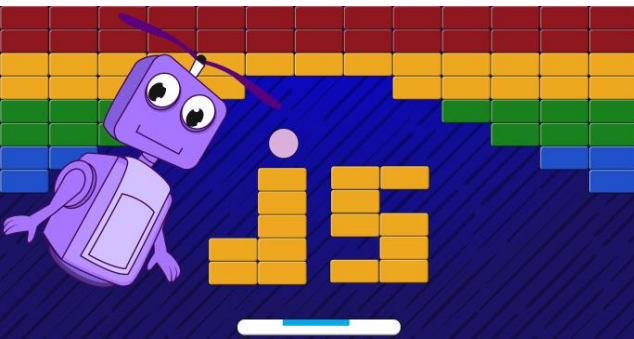
Pritisni "Run" i uživaj!

Ove programe „Crtaj sa kodom“ (Draw with code) vam je doneo codeguppy.com – zabavni sajt za kodiranje za decu, tinejdžere i kreativne odrasle

Ne zaboravite da posetite <https://codeguppy.com> za zabavnije projekte!

Za vesti i ažuriranja pratite [@codeguppy](https://twitter.com/codeguppy) na Twitter-u!

Prevod: Marija Andonović Radojević



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>