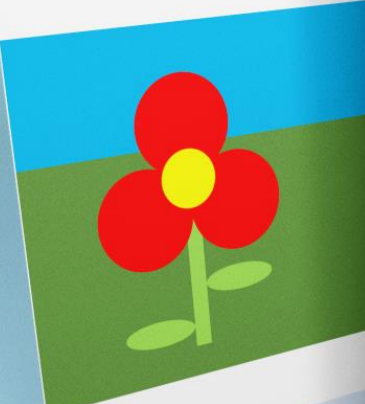


# Crtanje s kodom

JavaScript programi za mlade programere

Draw with code

Type-In JavaScript program for young coders



```
// 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);
```

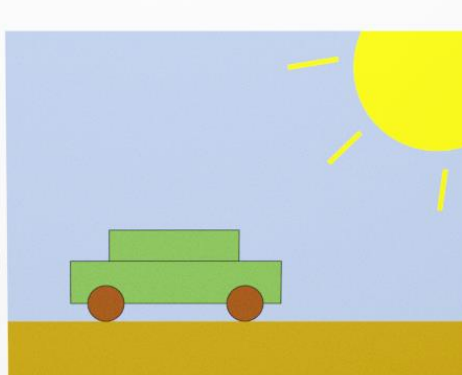
1 Open [codeguppy.com](https://codeguppy.com) code editor

2 Type in the program in the code editor

3 Run the program and observe the effect

Draw with code

Type-In JavaScript program for young coders



```
// Background
noStroke();
fill("#d9eaf3");
rect(0, 0, 800, 300);
fill("#f9d71f");
rect(0, 300, 800, 600);

// Mast
fill("#804c0c");
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("#d70303");
triangle(520, 52, 578, 52, 553, 67);
triangle(631, 71, 677, 71, 664, 85);
triangle(723, 121, 766, 121, 743, 135);
```

1 Open [codeguppy.com](https://codeguppy.com) code editor

2 Type in the program in the code editor

3 Run the program and observe the effect

Draw with code

Type-In JavaScript program for young coders

```
noStroke();

// Background
fill("#d9eaf3");
rect(0, 0, 800, 300);
fill("#f9d71f");
rect(0, 300, 800, 600);

// Mast
fill("#804c0c");
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("#d70303");
triangle(520, 52, 578, 52, 553, 67);
triangle(631, 71, 677, 71, 664, 85);
triangle(723, 121, 766, 121, 743, 135);
```

1 Open [codeguppy.com](https://codeguppy.com) code editor

2 Type in the program in the code editor

3 Run the program and observe the effect

Rano izdanje

Izvršno za - Sat kodiranja - Klubove kodiranja - Kućnu upotrebu

# Tko može koristiti ovaj priručnik?

Ovaj priručnik namijenjen je kao izvor kodiranja za roditelje, učitelje informatike i kodiranja. Priručnik sadrži zabavne JavaScript programe za mlade programere.

Ovaj priručnik vrlo je vrijedan izvor za upoznavanje djece s kodiranjem. Nikakvo prethodno iskustvo u kodiranju nije potrebno za djecu ... ili roditelje / učitelje.

## Kako koristiti ovaj priručnik?

Prije svega, budite sigurni da sva djeca imaju otvorene besplatne račune na [codeguppy.com](https://codeguppy.com) , a zatim:

- Ispišite ovaj priručnik i podijelite tiskane programe s djecom. Svaka stranica sadrži cijeli program, tako da možete dijeliti jednu po jednu stranicu djetetu.
- Zamolite djecu da utipkaju programe u uređivač koda na [codeguppy.com](https://codeguppy.com) i zatim ga pokrenu uz pomoć gumba "Run".
- Motivirajte djecu da kreiraju program mijenjanjem boja ili dodavanjem dodatnih oblika.

# Savjeti za unos programa

Unos programa s papira izvrstan je način da naučite djecu kodiranju. Budući da program zahtjeva pažnju na detalje, djeca će također razvijati korisne vještine i izvan kodiranja.

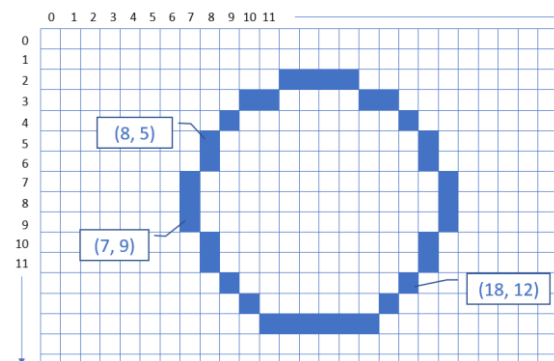
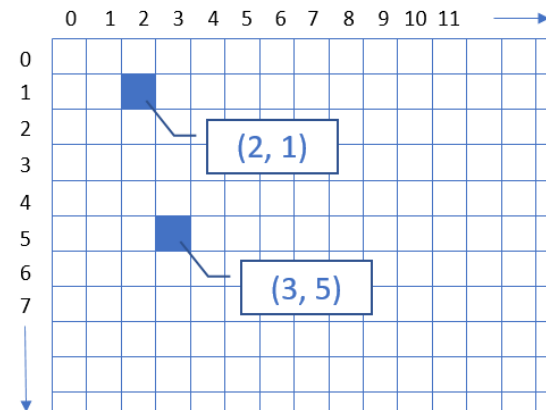
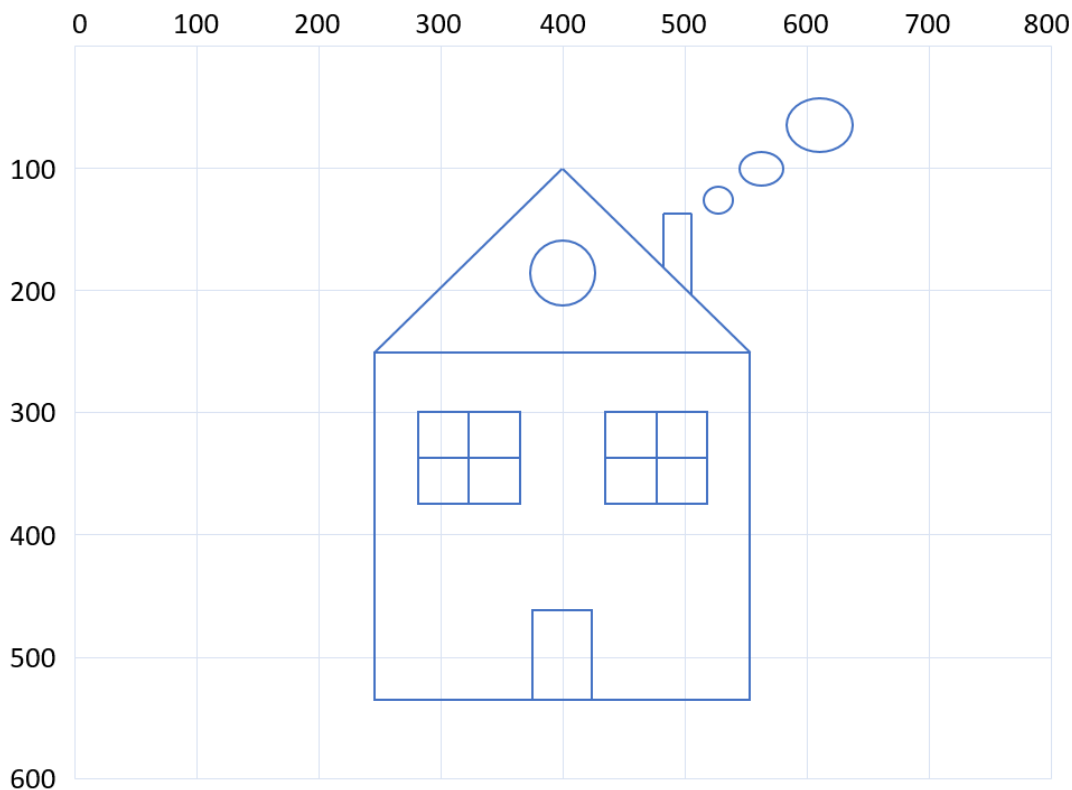
Nekoliko savjeta kako biste bili sigurni da se programi ispravno upisuju:

- Zamolite djecu da vrlo pažljivo upisuju svaki program točno onako kako je na papiru. Recite im da ne preskaču niti jedno slovo, broj ili interpunkcijski znak!
- Programi su osjetljivi na velika i mala slova. Zamolite djecu da upisuju sve naredbe koristeći velika i mala slova kao na papiru.
- Kako biste izbjegli gomilanje pogrešaka, možete uputiti djecu da s vremena na vrijeme pokrenu program, ali tek nakon što završe trenutni redak koda. Pokretanje programa je jednostavno pritiskom na veliki gumb "Run" u gornjem desnom dijelu uređivača koda.
- Ako računalo ispisuje pogreške, provjerite zajedno s djecom upisani program s programom na papiru.

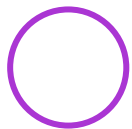
# Razumijevanje programa

Svi programi u ovom priručniku su crtani na platnu. Platno se sastoji od mnogo malih točkica koje možete pretvoriti u crne ili bijele ili ih čak obojiti pomoću koda. Točkice nazivamo pikselima.

Platno je zapravo poput (milimetarskog) papira za crtanje (mrežasti papir), pri čemu je svaki kvadratić papira s mrežom jako mali piksel na platnu. Platno koje koristi naš program je 800 piksela široko i 600 piksela visoko.



# Grafične naredbe



**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)

## Postavite boju za crtanje

noStroke()  
stroke(color)  
strokeWeight(weight)

## Postavite boju ispunje

background(color)  
fill(color)  
noFill()

## Određivanje boje

- #RRGGBB (crvene, zelene, plave komponente)  
- Predefinirana boja

## 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

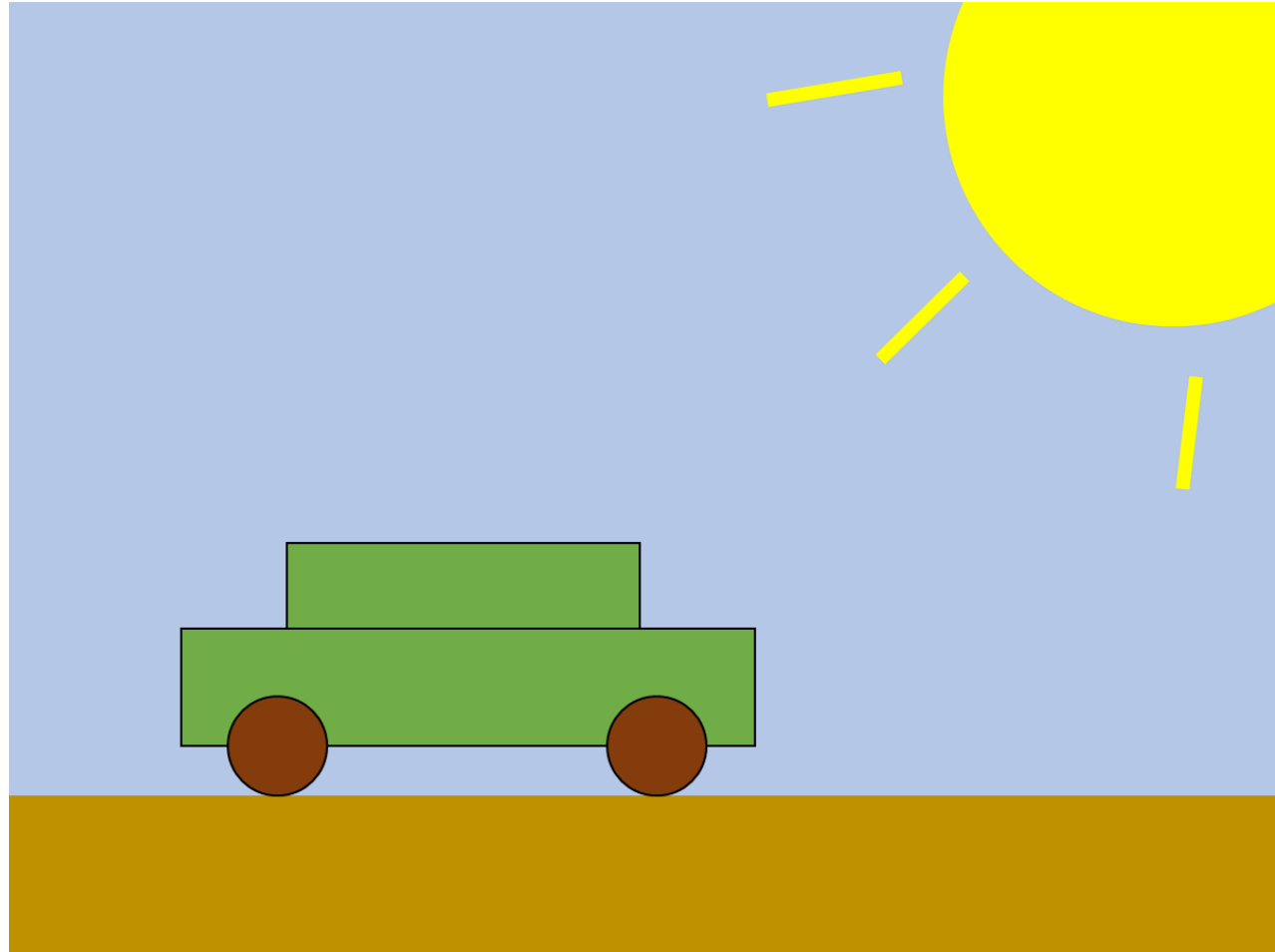
# Automobil

Upišite JavaScript program

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

// Sunce
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);

// Automobil
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

Prijavite se na [codeguppy.com](https://codeguppy.com)  
i kliknite gumb "Code now"

2

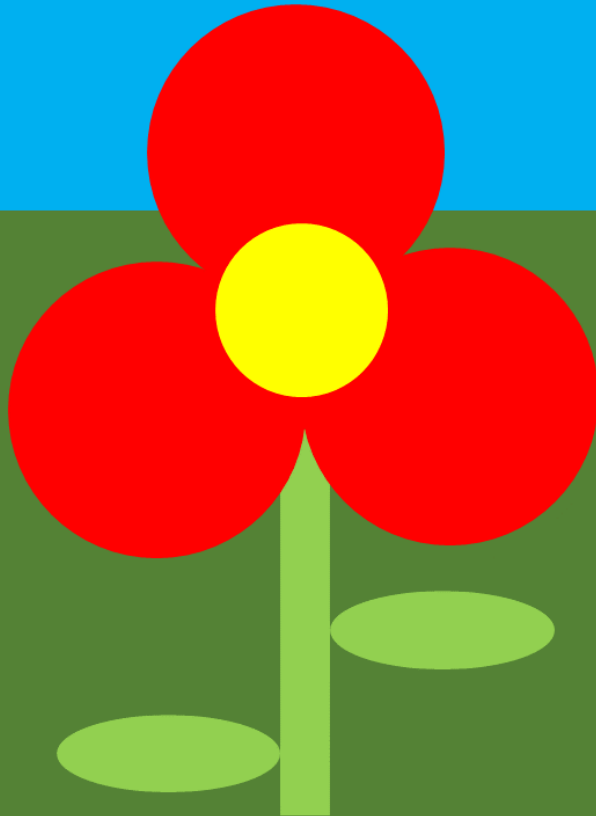
Upišite cijeli program u  
uređivač koda

3

Pritisnite "Run"  
i uživajte!

# Cvijet

Upišite JavaScript program



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

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

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

1

Prijavite se na [codeguppy.com](https://codeguppy.com)  
i kliknite gumb "Code now"

2

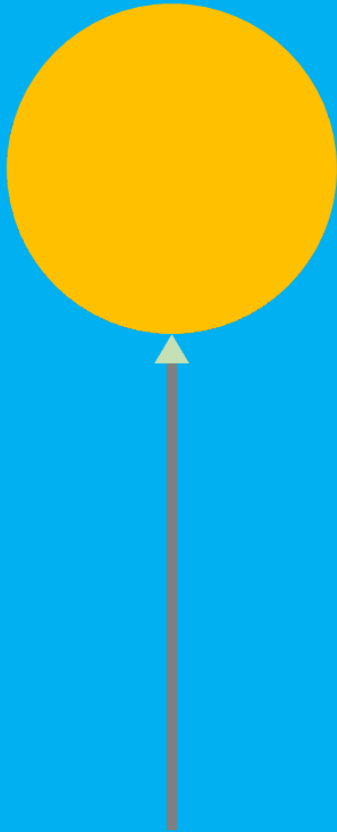
Upišite cijeli program u  
uređivač koda

3

Pritisnite "Run"  
i uživajte!

# Balon

Upišite JavaScript program



```
background("#00b0f0");  
  
// Vrpca  
stroke("#7f7f7f");  
strokeWeight(3);  
line(263, 280, 263, 548);  
  
// Balon  
noStroke();  
fill("#ffc000");  
triangle(255, 289,  
         263, 272,  
         271, 289);  
circle(263, 172, 100);
```

1

Prijavite se na [codeguppy.com](https://codeguppy.com)  
i kliknite gumb "Code now"

2

Upišite cijeli program u  
uređivač koda

3

Pritisnite "Run"  
i uživajte!



# Snjegović

Upišite JavaScript program

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

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

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

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

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

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

// Nos i šešir
fill("#ffc000");
triangle(397, 161, 401, 176, 483, 146);
fill("#c55a11");
triangle(321, 125, 353, 39, 434, 73);

// Lijeva ruka
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

Prijavite se na [codeguppy.com](https://codeguppy.com)  
i kliknite gumb "Code now"

2

Upišite cijeli program u  
uređivač koda

3

Pritisnite "Run"  
i uživajte!

# Kuća

Upišite JavaScript program



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

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

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

// Desni prozor
square(347, 302, 56);
line(375, 302, 375, 358);
line(347, 330, 403, 330);
```

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

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

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

// Sunce
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

Prijavite se na [codeguppy.com](https://codeguppy.com)  
i kliknite gumb "Code now"

2

Upišite cijeli program u  
uređivač koda

3

Pritisnite "Run"  
i uživajte!

# Kuća 2

Upišite JavaScript program



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

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

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

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

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

// Desni prozor
square(535, 287, 96);
line(583, 287, 583, 383);
line(535, 335, 631, 335);
```

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

// Sunce
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

Prijavite se na [codeguppy.com](https://codeguppy.com)  
i kliknite gumb "Code now"

2

Upišite cijeli program u  
uređivač koda

3

Pritisnite "Run"  
i uživajte!

# Četvrtasto stablo

Upišite JavaScript program



```
noStroke();

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

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

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

1

Prijavite se na [codeguppy.com](https://codeguppy.com)  
i kliknite gumb "Code now"

2

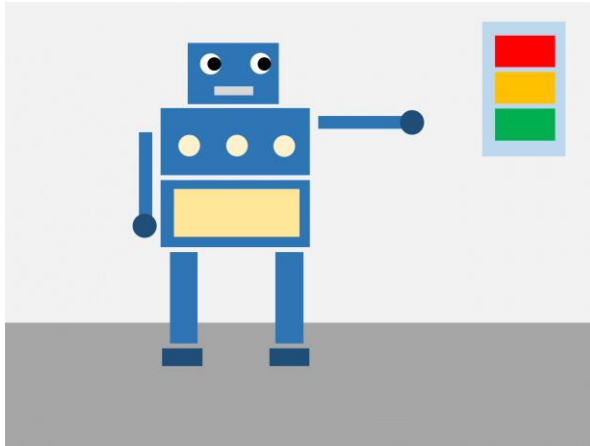
Upišite cijeli program u  
uređivač koda

3

Pritisnite "Run"  
i uživajte!

# Robot

Upišite JavaScript program



```
noStroke();  
  
// Pozadina  
fill("#efefef");  
rect(0, 0, 800, 430);  
fill("#a7a7a7");  
rect(0, 430, 800, 600);  
  
// Glava i tijelo  
fill("#2e75b6");  
rect(249, 54, 122, 83);  
rect(211, 142, 200, 90);  
rect(211, 240, 200, 90);
```

```
// Noge  
rect(224, 338, 36, 124);  
rect(368, 338, 36, 124);  
  
// Ruke  
rect(182, 176, 16, 118);  
rect(426, 155, 118, 16);  
  
// Stopala i šake  
fill("#1f4e79");  
rect(214, 468, 55, 25);  
rect(359, 468, 55, 25);  
circle(190, 300, 15);  
circle(553, 162, 15);  
  
// Oči  
fill("white");  
circle(278, 83, 14);  
circle(347, 83, 14);  
fill("black");  
circle(283, 83, 9);  
circle(352, 83, 9);
```

```
// Usta  
fill("#d8d8d8");  
rect(285, 113, 53, 13);  
  
// Dekoracije  
fill("#fff2cc");  
circle(250, 195, 12);  
circle(315, 195, 12);  
circle(380, 195, 12);  
fill("#ffe699");  
rect(230, 250, 165, 65);  
  
// Svjetla  
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

Prijavite se na [codeguppy.com](https://codeguppy.com)  
i kliknite gumb "Code now"

2

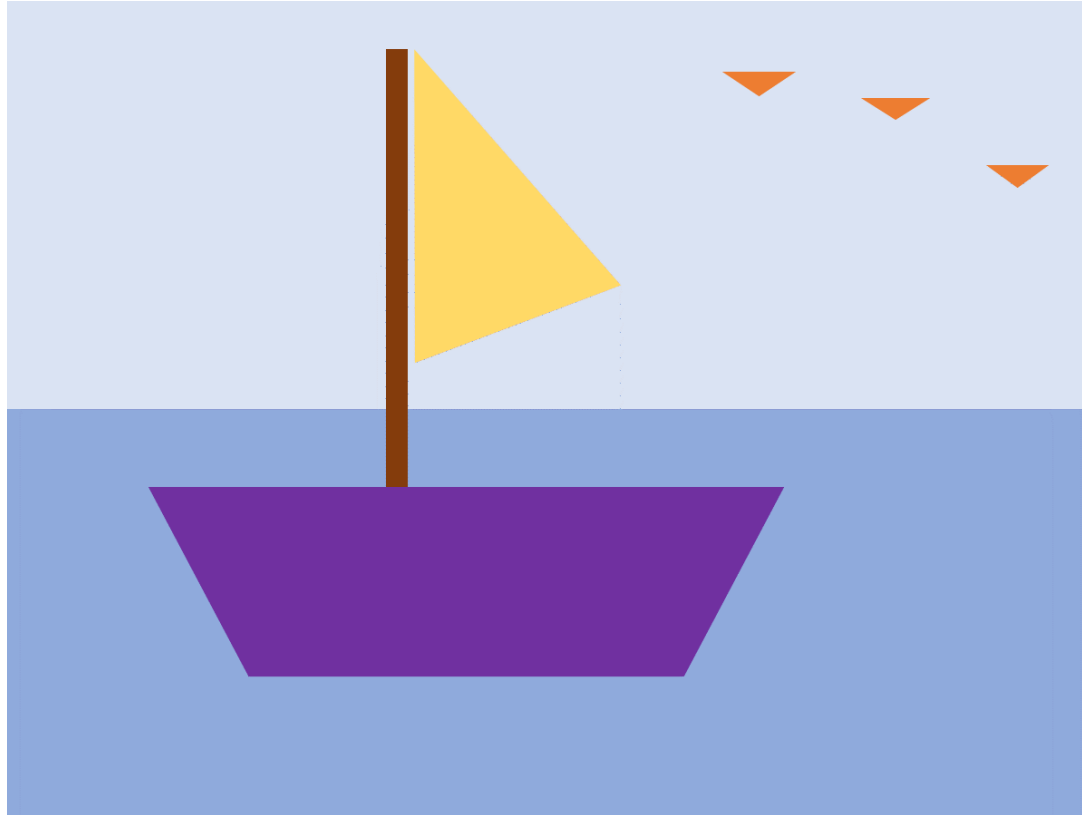
Upišite cijeli program u  
uređivač koda

3

Pritisnite "Run"  
i uživajte!

# Čamac

Upišite JavaScript program



```
noStroke();

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

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

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

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

1

Prijavite se na [codeguppy.com](https://codeguppy.com)  
i kliknite gumb "Code now"

2

Upišite cijeli program u  
uređivač koda

3

Pritisnite "Run"  
i uživajte!

# Smješko

Upišite 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

Prijavite se na [codeguppy.com](https://codeguppy.com)  
i kliknite gumb "Code now"

2

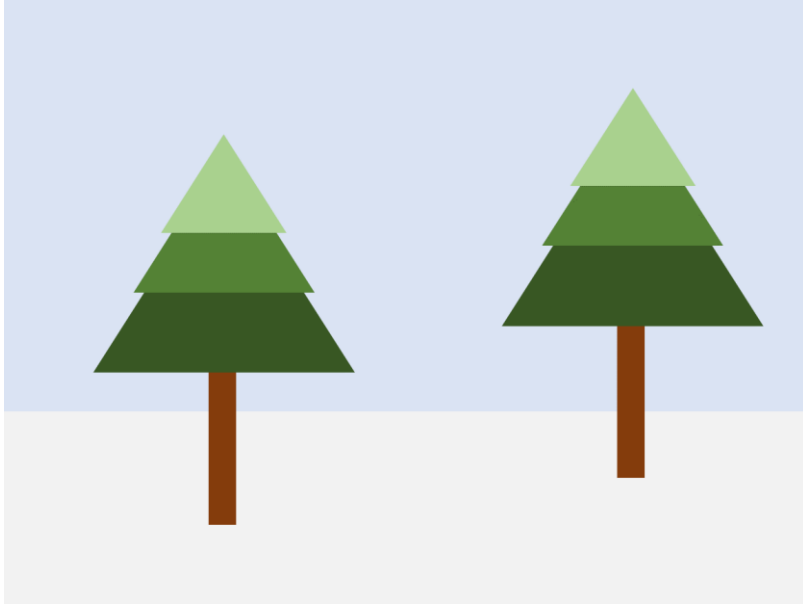
Upišite cijeli program u  
uređivač koda

3

Pritisnite "Run"  
i uživajte!

# Borovi

Upišite JavaScript program



```
noStroke();

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

// Prvi bor
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);

// Drugi bor
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

Prijavite se na [codeguppy.com](https://codeguppy.com)  
i kliknite gumb "Code now"

2

Upišite cijeli program u  
uređivač koda

3

Pritisnite "Run"  
i uživajte!



# Gljiva

Upišite JavaScript program



```
noStroke();  
  
// Pozadina  
fill("#a9d18e");  
rect(0, 0, 800, 400);  
fill("#843c0c");  
rect(0, 400, 800, 200);  
  
// Gljiva  
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

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# Pizza

Upišite JavaScript program

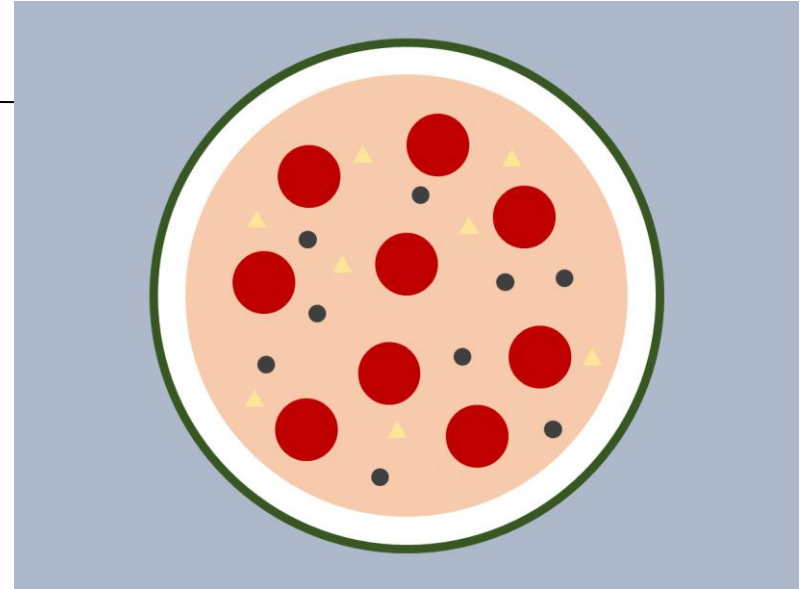
```
noStroke();
background("#adb9ca");

// Tanjur i pizza
fill("#385723");
circle(400, 300, 260);
fill("white");
circle(400, 300, 254);
fill("#f7c9ab");
circle(400, 300, 225);

// Feferoni
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);
```

```
// Masline
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);

// Ananas
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);
```



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# Miš

Upišite JavaScript program



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

// Glava i uši
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);

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

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

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# Vlak

Upišite JavaScript program

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

// Glavni dio
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);

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



```
// Kotači
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);
```

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

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# Grad

Upišite JavaScript program

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

```
// Zgrada 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);
```



```
// Zgrada 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);
```

```
// Zgrada 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);
```

```
// Zgrada 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);
```

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

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# Mačka

Upišite JavaScript program



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

// Uši i tijelo
fill("#f4b183");
triangle(318, 99, 318, 175, 359, 121);
triangle(483, 99, 483, 184, 435, 121);
circle(397, 415, 120);

// Glava i stopala
fill("#f8cbad");
triangle(397, 69, 138, 410, 655, 410);
circle(332, 525, 25);
circle(468, 525, 25);

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

// Nos
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);
```

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2

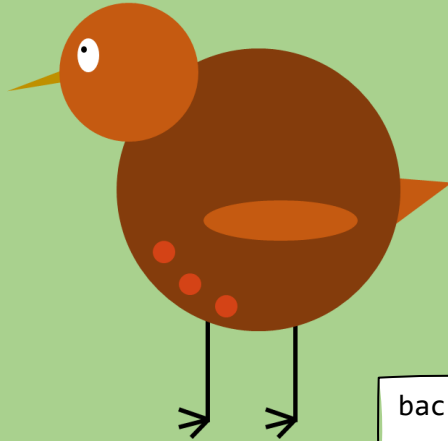
Upišite cijeli program u  
uređivač koda

3

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# Ptica

Upišite JavaScript program



```
background("#a9d18e");

// Noge
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);
```

```
// Rep i tijelo
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);

// Glava
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);
```

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## Upišite JavaScript program



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

```
// Sunce
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);
```

```
// Kuća
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);

// Trijem
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);

// Prozori
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

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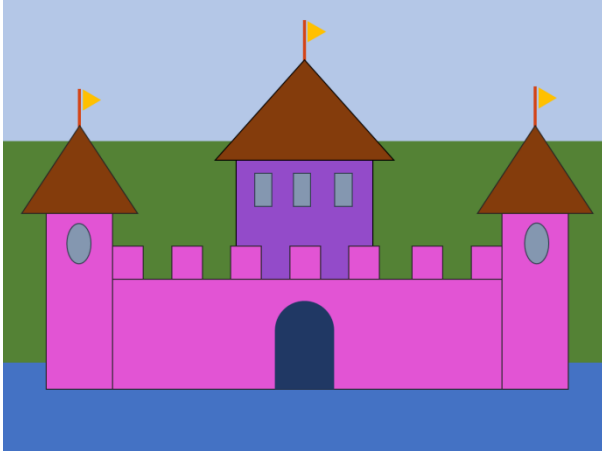
3

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# Dvorac

Upišite JavaScript program



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

```
// Zidine dvorca
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);
```

```
// Prozori
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);
```

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

```
// Zastave
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);
```

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

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# Medvjedić

Upišite JavaScript program



```
background("#b4c7e7");

// Glava i uši
noStroke();
fill("#843c0c");
circle(281, 137, 56);
circle(527, 137, 56);
fill("#c55a11");
circle(406, 300, 162);

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

// Nos i usta
fill("#843c0c");
circle(406, 395, 68);
fill("#bcb9b6");
rect(406, 369, 3, 94);
fill("black");
circle(406, 349, 22);

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

1

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2

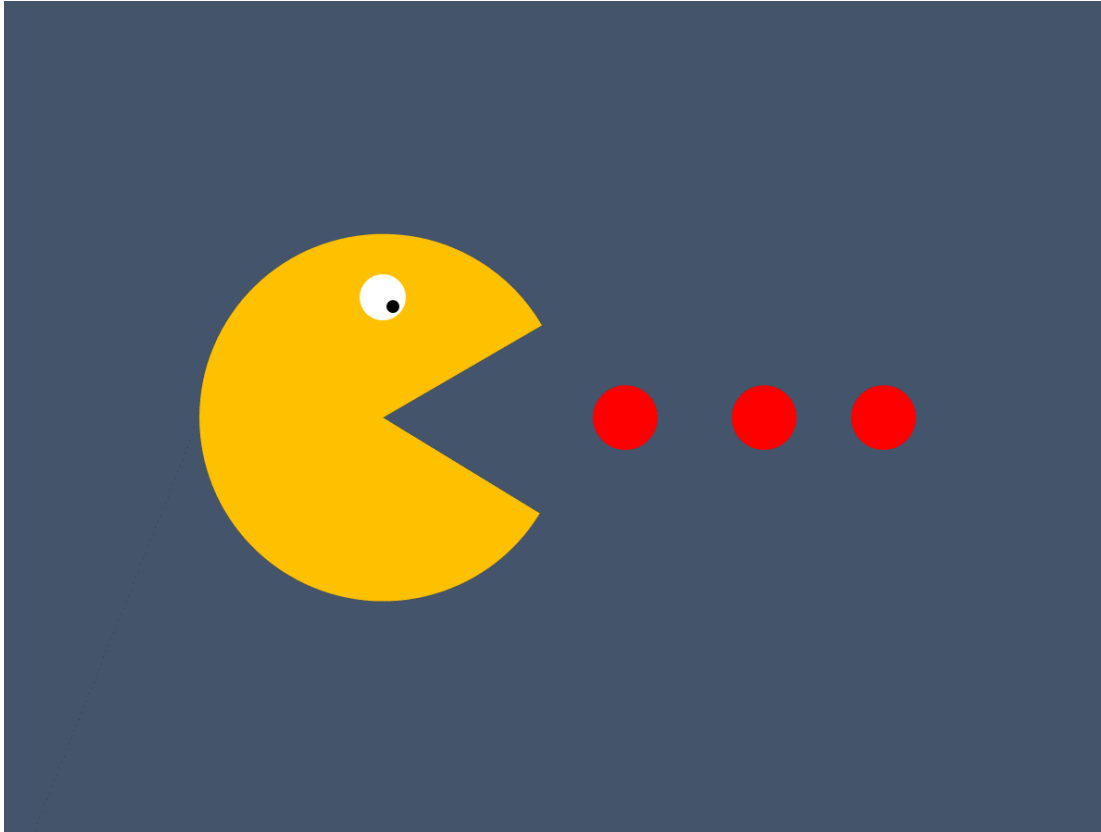
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3

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i uživajte!

# Pac Man

Upišite JavaScript program



```
background("#44546a");
noStroke();

// Pacman
fill("#ffc000");
arc(270, 300, 264, 264, 30, 330);

// Oči
fill("white");
circle(272, 213, 16);
fill("black");
circle(280, 219, 5);

// Hrana
fill("red");
circle(448, 300, 24);
circle(548, 300, 24);
circle(648, 300, 24);
```

1

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2

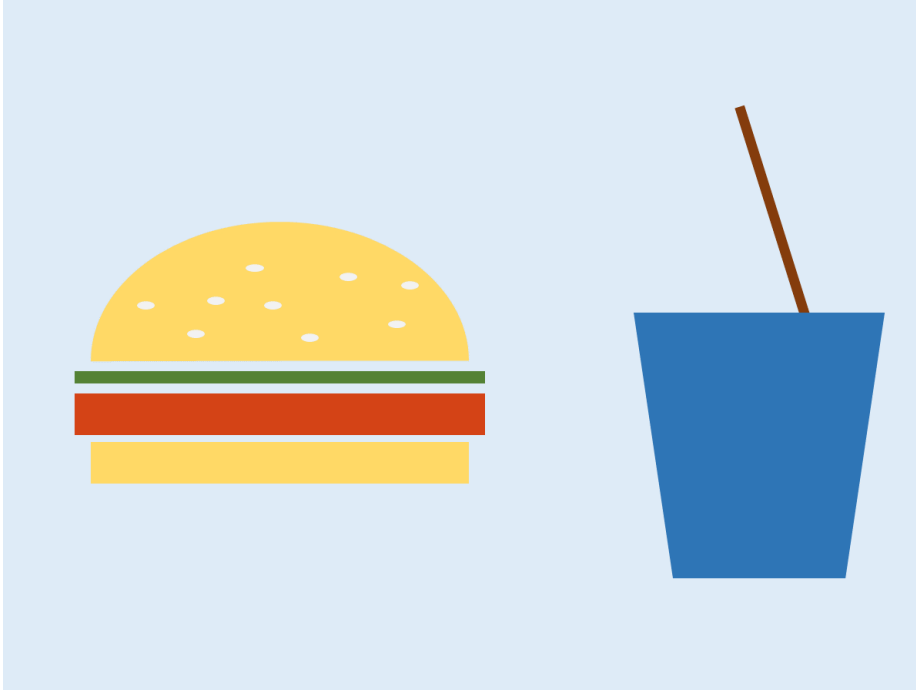
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# Brza hrana

Upišite JavaScript program



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

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

```
// Salata i meso  
fill("#548235");  
rect(63, 320, 355, 9);  
fill("#d44316");  
rect(63, 340, 355, 35);
```

```
// Sjemenke  
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);  
  
// Piće  
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

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# Pas

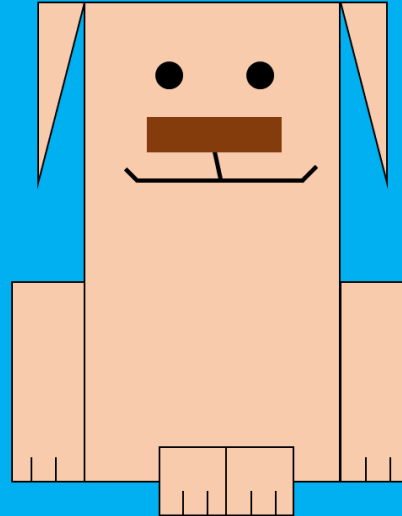
Upišite JavaScript program

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

// Glava, tijelo i uši
fill("#f8cbad");
rect(315, 95, 200, 380);
triangle(279, 95, 315, 95, 279, 240);
triangle(515, 95, 551, 95, 551, 240);

// Stražnje noge
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);

// Prednje noge
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);
```



```
// Usta, nos i oči
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

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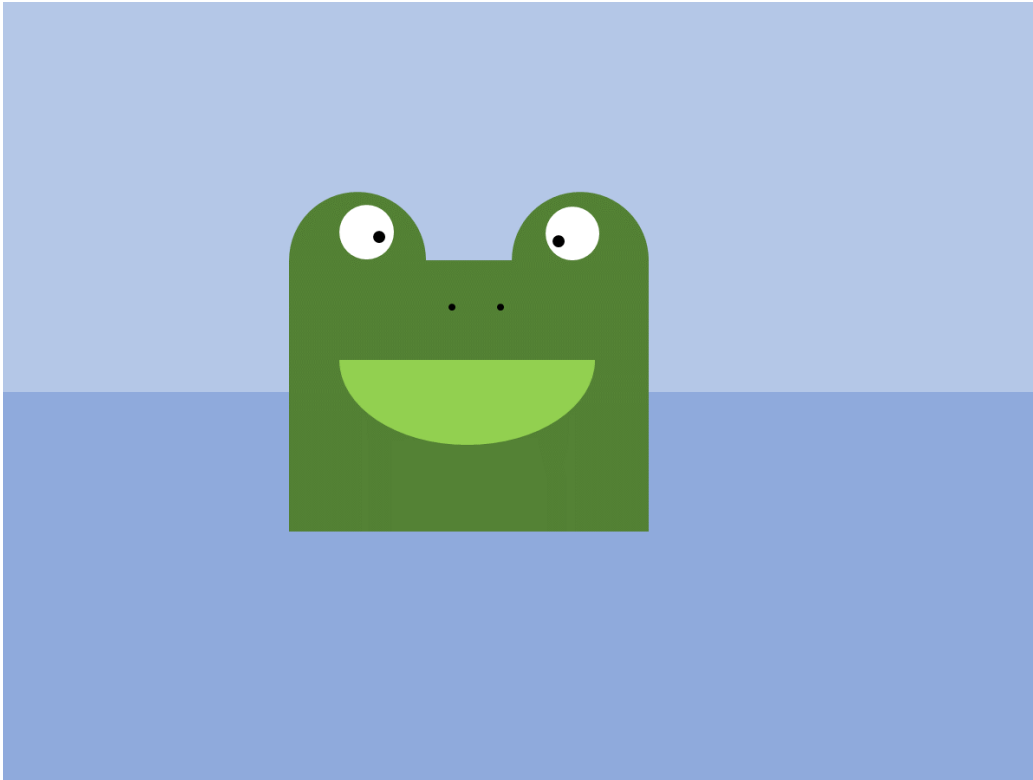
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# Žaba

Upišite JavaScript program



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

// Tijelo i oči
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);

// Nos i usta
circle(345, 233, 3);
circle(382, 233, 3);
fill("#92d050");
arc(358, 274, 197, 134, 0, 180);
```

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# Kuća 3

Upišite JavaScript program



```
// Pozadina i sunce
noStroke();
fill("#b4c7e7");
rect(0, 0, 800, 460);
fill("#a9d18e");
rect(0, 460, 800, 140);
fill("#ffd966");
circle(98, 82, 48);
```

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

```
// Vrata i prozori
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);

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

// Dimnjak i dim
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

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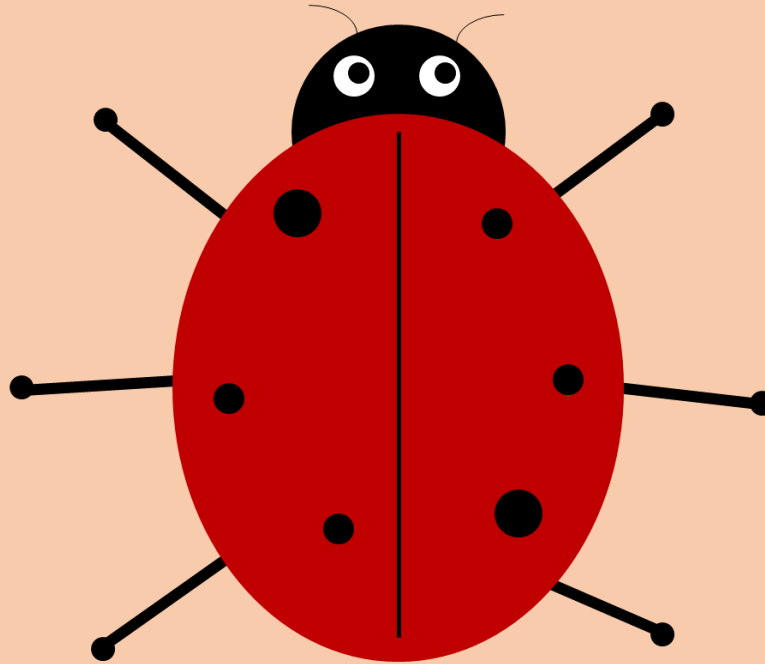
# Bubamara

Upišite JavaScript program

```
background("#f8cbad");

// Noge
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);

// Glava
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);
```



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

// Tijelo
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

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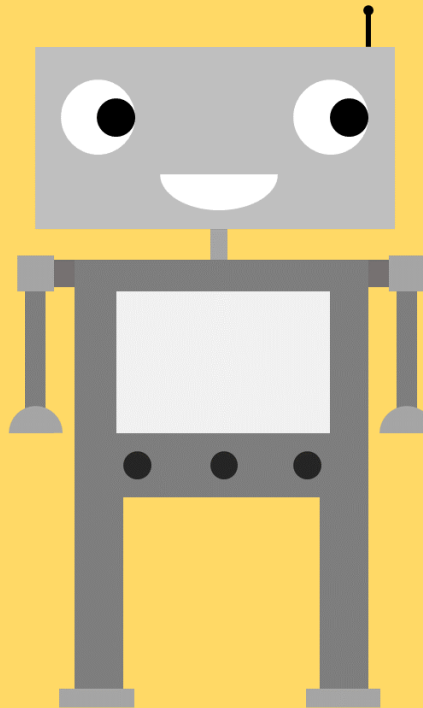
# Robot 2

Upišite JavaScript program

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

// Glava
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);

// Tijelo
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);
```



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

// Ruke
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

Prijavite se na [codeguppy.com](https://codeguppy.com)  
i kliknite gumb "Code now"

2

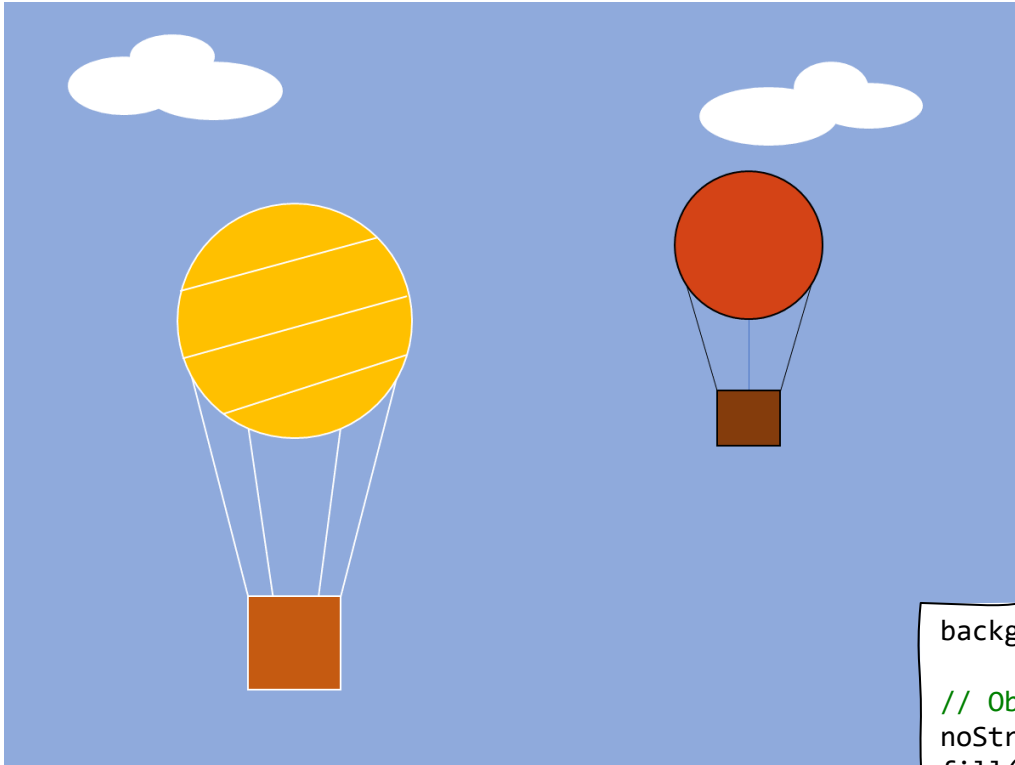
Upišite cijeli program u  
uređivač koda

3

Pritisnite "Run"  
i uživajte!

# Baloni na topli zrak

Upišite JavaScript program



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

```
// Oblaci
```

```
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);
```

```
// Žuti balon
```

```
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);
```

```
// Crveni balon
```

```
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

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2

Upišite cijeli program u  
uređivač koda

3

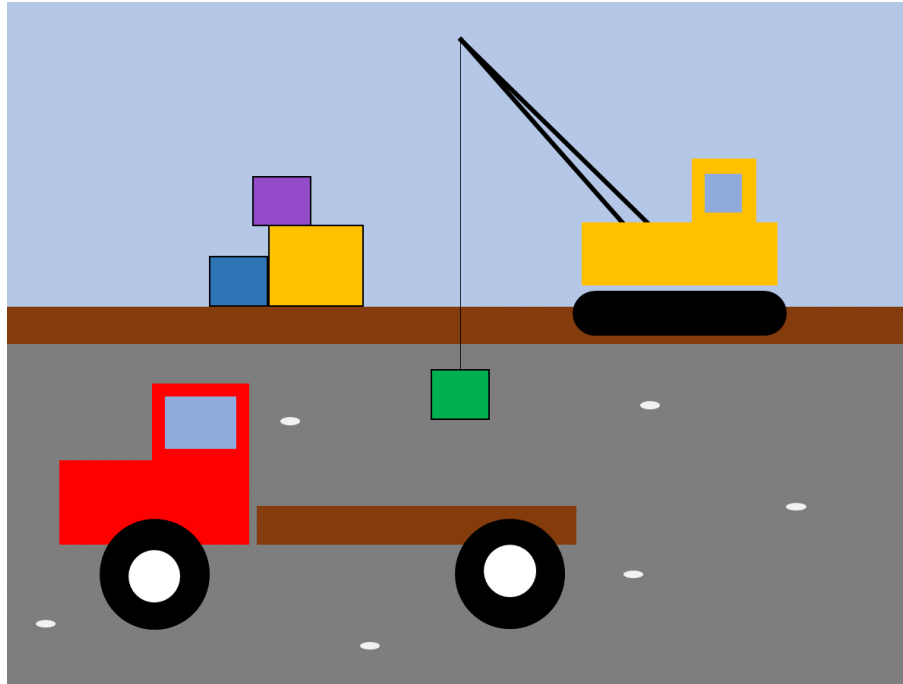
Pritisnite "Run"  
i uživajte!

# Kamioni

Upišite JavaScript program

```
// Pozadina
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);

// Kamion s ravnom platformom
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);
```



```
// Kamion dizalica
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);

// Paketi
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

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2

Upišite cijeli program u  
uređivač koda

3

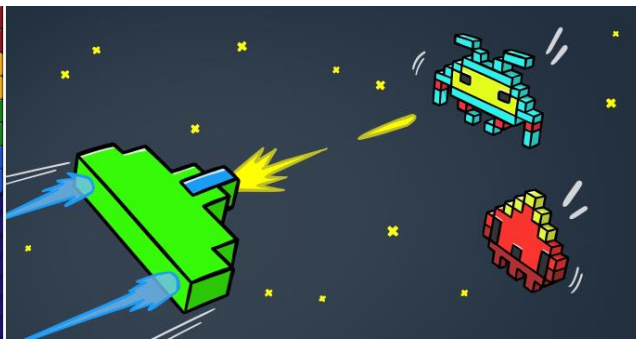
Pritisnite "Run"  
i uživajte!

Programi “Draw with code” kreirani su zahvaljujući codeguppy.com – zabavno mjesto za kodiranje za djecu, mlade i kreativne odrasle osobe.

Ne zaboravite posjetiti <https://codeguppy.com> za više zabavnih projekata!

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

Prevela na hrvatski Valentina Vidović



Zasluge

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>