

Disegna con il Codice

Scrivere in JavaScript per giovani programmatori

Draw with code
Type-In JavaScript program for young coders

```
// 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(400, 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);
```

Draw with code
Type-In JavaScript program for young coders

```
noStroke();  
  
// Background  
fill("black");  
rect(0, 0, 800, 300);  
fill("#ffcc00");  
rect(0, 300, 800, 600)  
  
// Mast  
fill("#88430c");  
rect(200, 30, 16, 321);  
fill("#ff9966");  
triangle(300, 36, 450, 207, 300, 264);  
  
// Boat  
fill("#0030a0");  
rect(170, 357, 319, 140);  
triangle(105, 357, 178, 357, 178, 497);  
triangle(573, 357, 497, 497, 497, 357);  
  
// Birds  
fill("#0070c0");  
triangle(529, 52, 570, 52, 553, 67);  
triangle(631, 71, 672, 71, 654, 85);  
triangle(722, 121, 706, 121, 743, 135);
```

Draw with code
Type-In JavaScript program for young coders

- 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

Ottimo per - L'ora del Codice - Coding Clubs - Uso a casa

Chi può usare questo documento?

Questo documento è una risorsa per fare coding utile ai genitori, agli insegnanti di informatica e agli istruttori di coding club. Il libretto contiene divertenti programmi JavaScript per giovani programmatori.

Questo documento è una valida risorsa per avviare i ragazzi alla programmazione. Non è necessaria alcuna conoscenza di programmazione né per i bambini né per i genitori/insegnanti.

Come usare questo documento?

Ogni ragazzo dovrà avere un account gratuito su codeguppy.com poi:

- Stampare questo documento e condividere i programmi stampati con i ragazzi. Ogni pagina contiene un programma completo, così da poter condividere una pagina alla volta con i ragazzi.
- Chiedere ai ragazzi di digitare nell'editor del codice di codeguppy.com il programma e poi eseguirlo con il pulsante “Run”.
- Stimolare i ragazzi a personalizzare il programma cambiando i colori o inserendo altre forme.

Suggerimenti per la digitazione dei programmi

Digitare i programmi partendo da un foglio di carta è un ottimo metodo per insegnare la programmazione ai ragazzi. I ragazzi svilupperanno anche altre abilità oltre alla programmazione in quanto digitare il programma richiede una notevole attenzione ai dettagli.

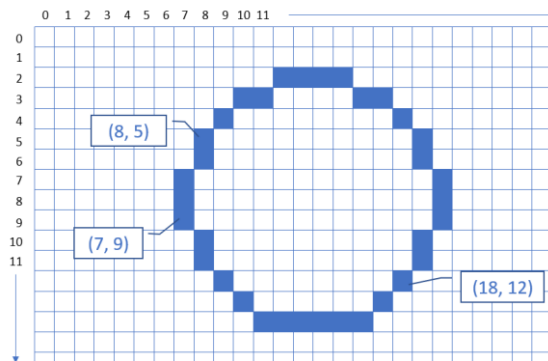
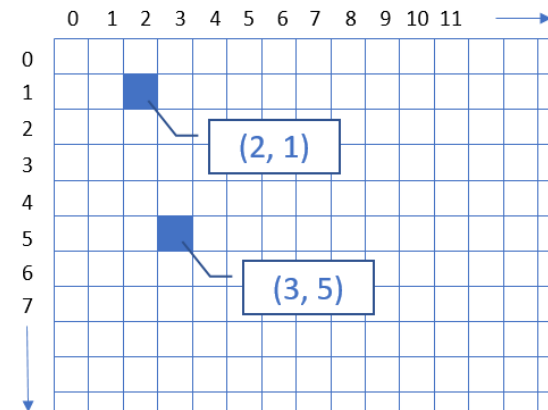
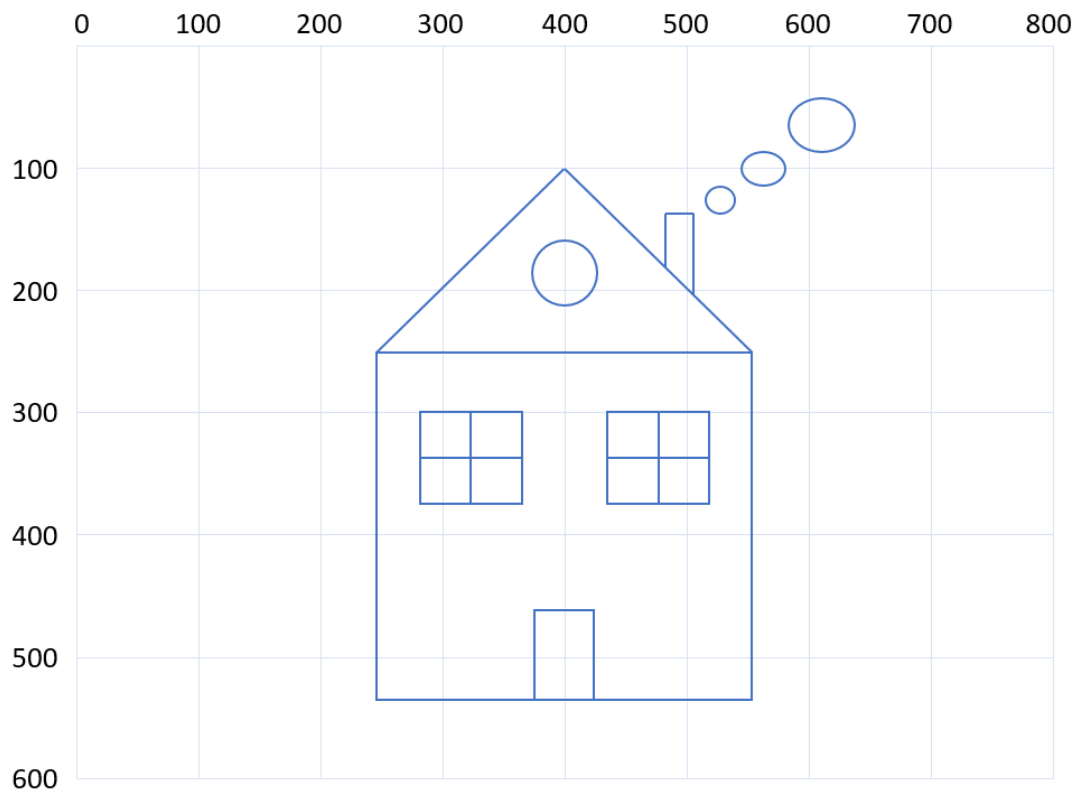
Questi alcuni suggerimenti per essere sicuri di digitare correttamente i programmi:

- Chiedere ai ragazzi di digitare con molta attenzione esattamente come appare sul foglio. Dirgli di non saltare nessuna lettera, numero o segno di punteggiatura!
- I programmi fanno distinzione tra lettere minuscole e maiuscole. Chiedere ai ragazzi di digitare tutti i comandi come appaiono sul foglio.
- Per evitare di accumulare errori si può dire ai ragazzi di eseguire il programma di tanto in tanto, ma solo dopo aver completato una linea di codice. Per eseguire il programma premere il tasto “Run” in alto a destra nell’editor del codice.
- Se il computer genera errori, verificate insieme ai ragazzi la corrispondenza tra il programma digitato e quello sul foglio.

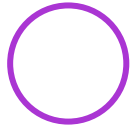
Comprendere i programmi

Tutti i programmi in questo documento disegnano una tela. La tela è composta di piccoli punti che possono essere trasformati in nero, bianco o colorati grazie al codice. Questi piccoli punti sono chiamati pixels.

La tela è come una carta a quadretti dove ogni quadretto rappresenta un pixel. La tela usata nel nostro programma è di 800 pixels di larghezza per 600 pixels di altezza.



Comandi grafici



cerchio(x, y, raggio)

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



ellisse(x, y, larghezza, altezza)

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



linea(x1, y1, x2, y2)

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



rettangolo(x, y, larghezza, altezza)

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



punto(x, y)

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



triangolo(x1, y1, x2, y2, x3, y3)

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

Imposta il colore per disegnare

noStroke()
stroke(color)
strokeWeight(weight)

Imposta il colore di riempimento

background(color)
fill(color)
noFill()

specificare il colore

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

Colori

- 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

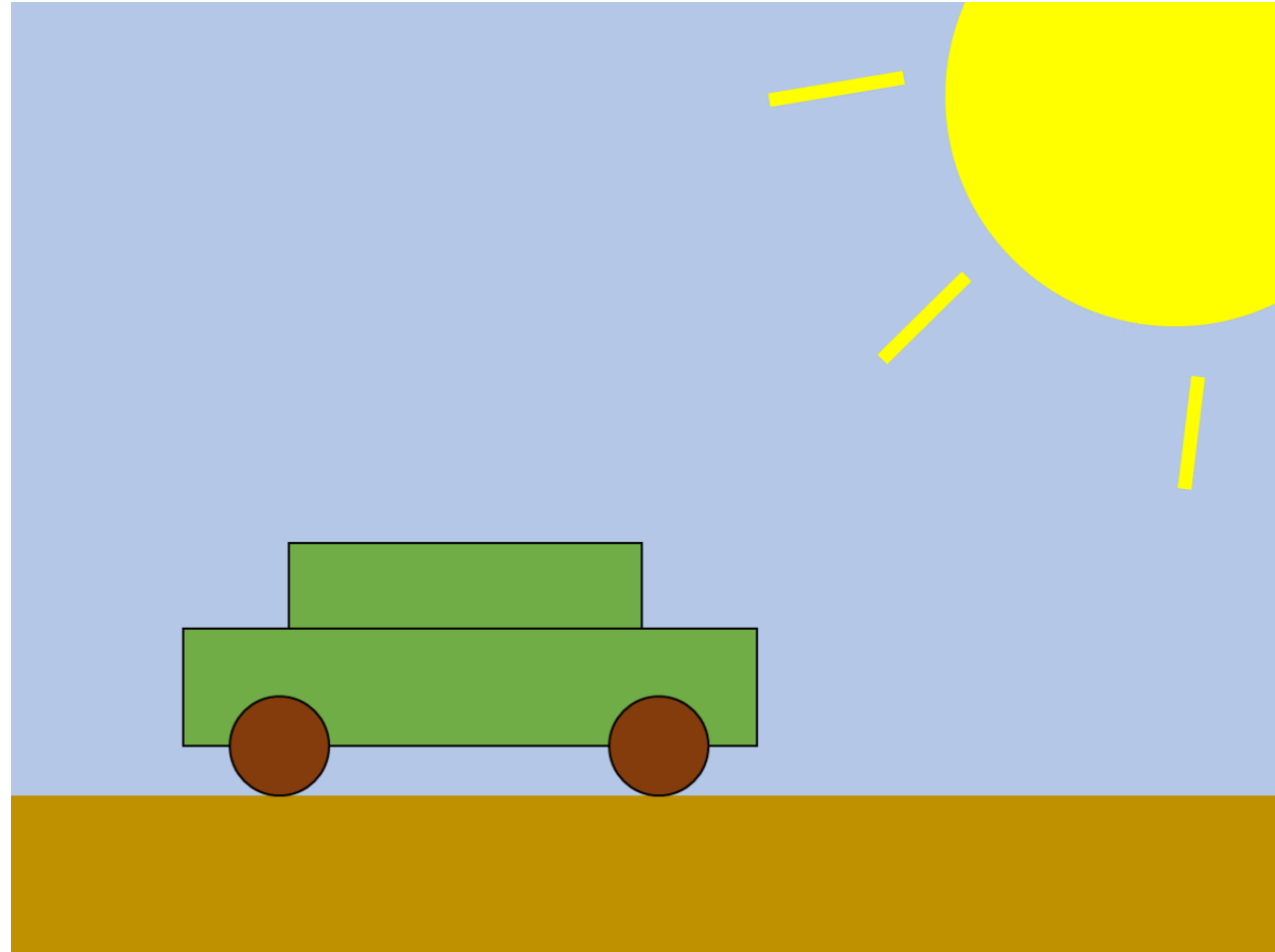
Macchina

Digita in JavaScript

```
// 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

Registrati su codeguppy.com e clicca sul tasto "Code Now"

2

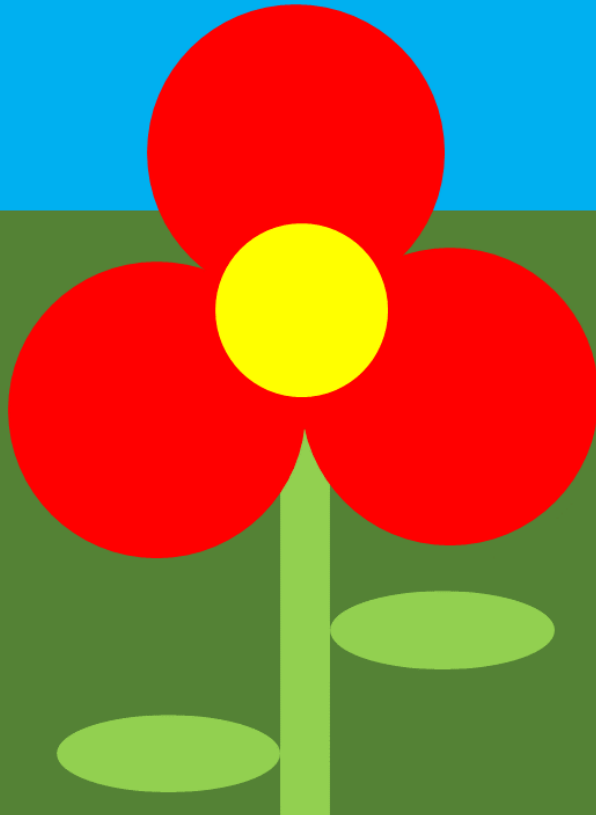
Digita il programma nell'editor del codice

3

Premi "Run" e divertiti!

Fiore

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

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2

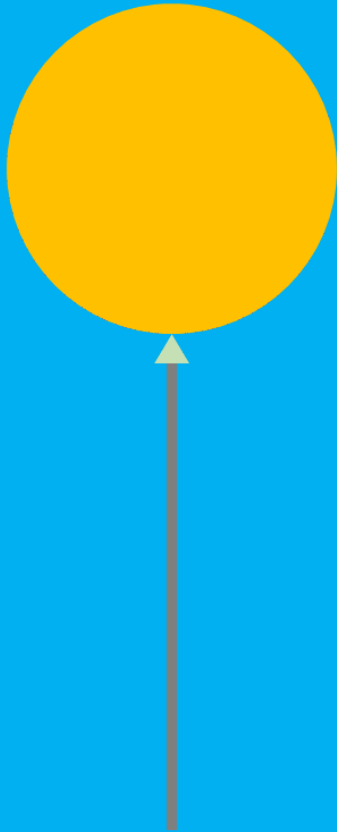
Type-in the above program
in the Code Editor

3

Press "Run"
and enjoy!

Palloncino

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 codeguppy.com
and click "Code Now" button

2

Type-in the above program
in the Code Editor

3

Press "Run"
and enjoy!

Pupazzo di neve

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

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2

Type-in the above program
in the Code Editor

3

Press "Run"
and enjoy!

Casa

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

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2

Type-in the above program
in the Code Editor

3

Press "Run"
and enjoy!

Casa 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

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2

Type-in the above program
in the Code Editor

3

Press "Run"
and enjoy!

Albero quadrato

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

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2

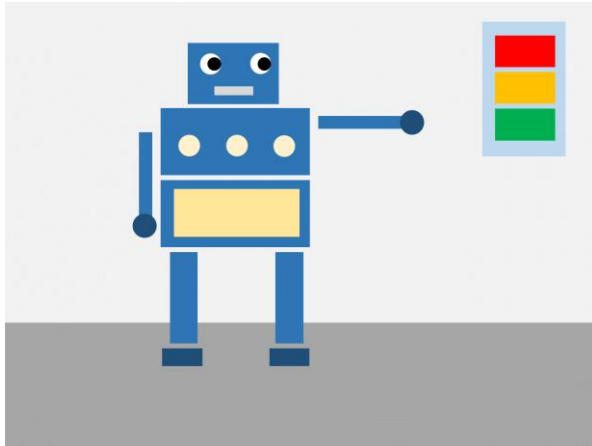
Type-in the above program
in the Code Editor

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

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2

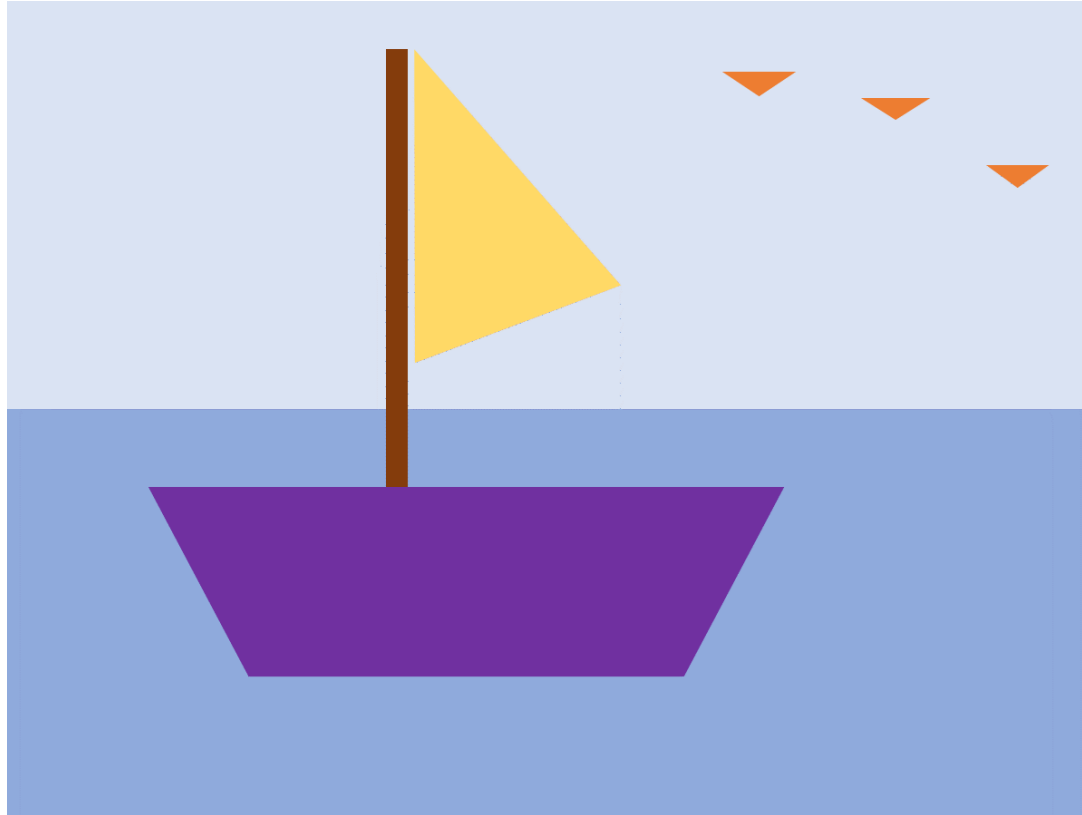
Type-in the above program
in the Code Editor

3

Press "Run"
and enjoy!

Barca

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

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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 codeguppy.com
and click "Code Now" button

2

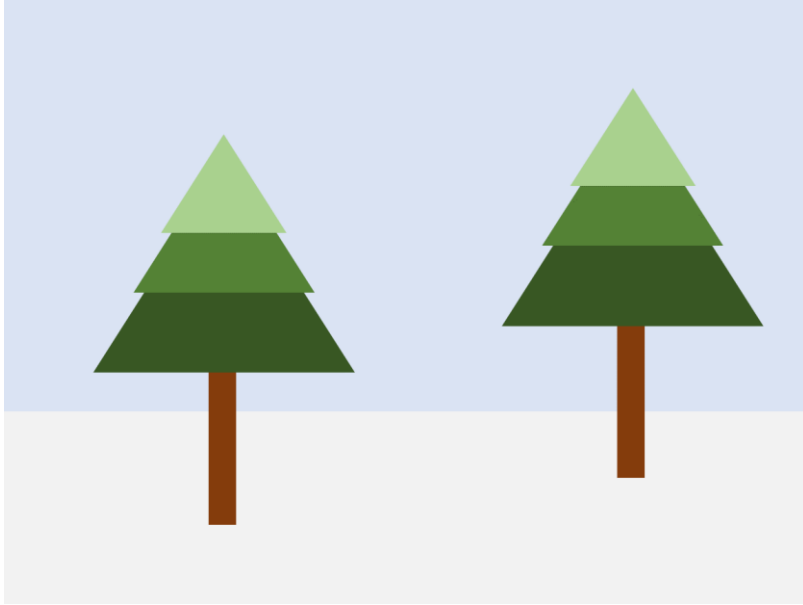
Type-in the above program
in the Code Editor

3

Press "Run"
and enjoy!

Abeti

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 codeguppy.com
and click "Code Now" button

2

Type-in the above program
in the Code Editor

3

Press "Run"
and enjoy!

Fungo

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 codeguppy.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

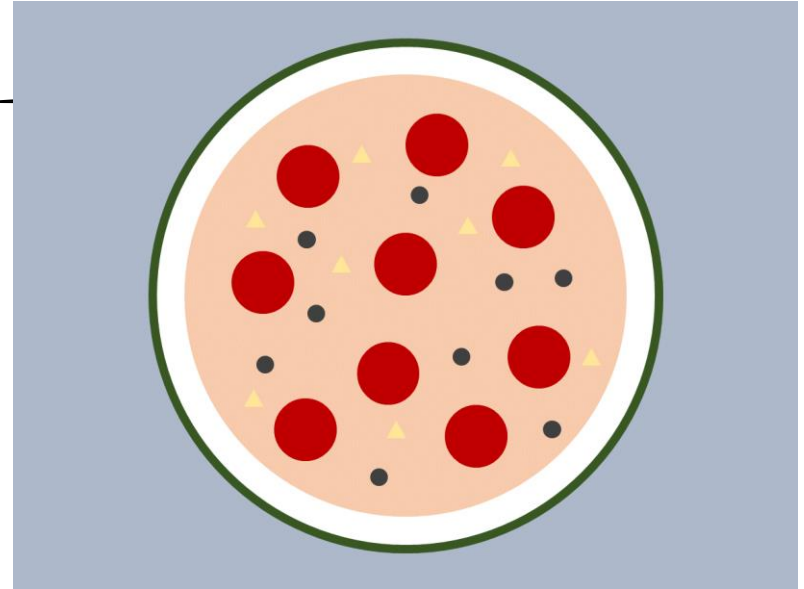
```
noStroke();
background("#adb9ca");

// 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

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and click "Code Now" button

2

Type-in the above program
in the Code Editor

3

Press "Run"
and enjoy!

Topo

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 codeguppy.com
and click "Code Now" button

2

Type-in the above program
in the Code Editor

3

Press "Run"
and enjoy!

Treno

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

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2

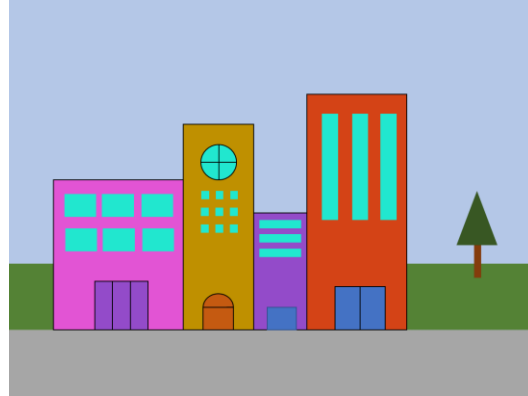
Type-in the above program
in the Code Editor

3

Press "Run"
and enjoy!

Città

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

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2

Type-in the above program
in the Code Editor

3

Press "Run"
and enjoy!

Gatto

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

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2

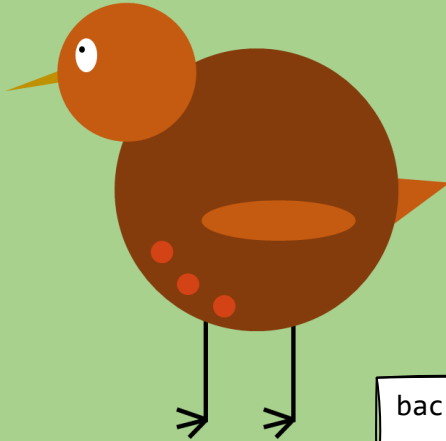
Type-in the above program
in the Code Editor

3

Press "Run"
and enjoy!

Uccellino

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

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and click "Code Now" button

2

Type-in the above program
in the Code Editor

3

Press "Run"
and enjoy!

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

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2

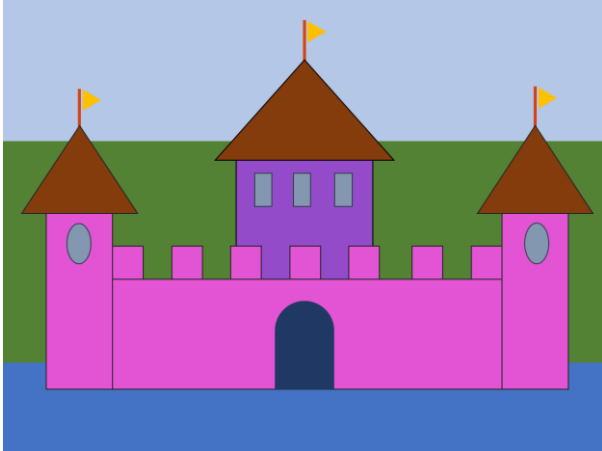
Type-in the above program
in the Code Editor

3

Press "Run"
and enjoy!

Castello

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

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and click "Code Now" button

2

Type-in the above program
in the Code Editor

3

Press "Run"
and enjoy!

Orso

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

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and click "Code Now" button

2

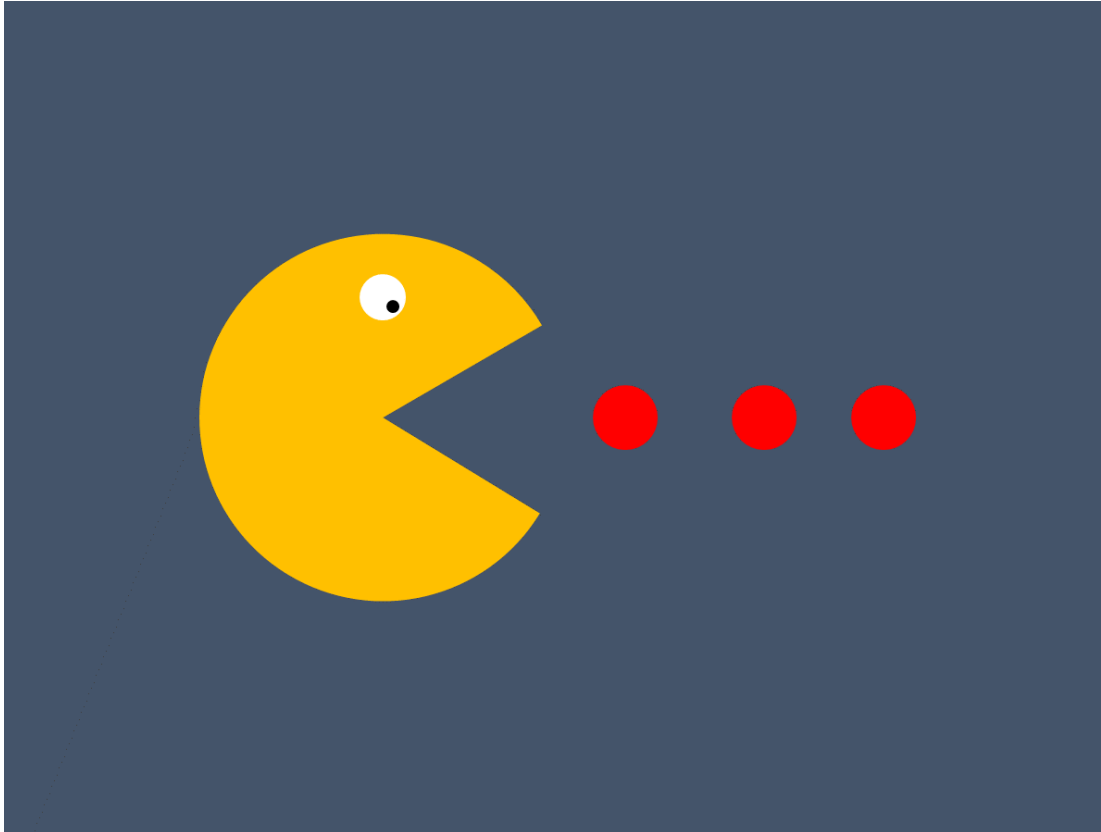
Type-in the above program
in the Code Editor

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 codeguppy.com
and click "Code Now" button

2

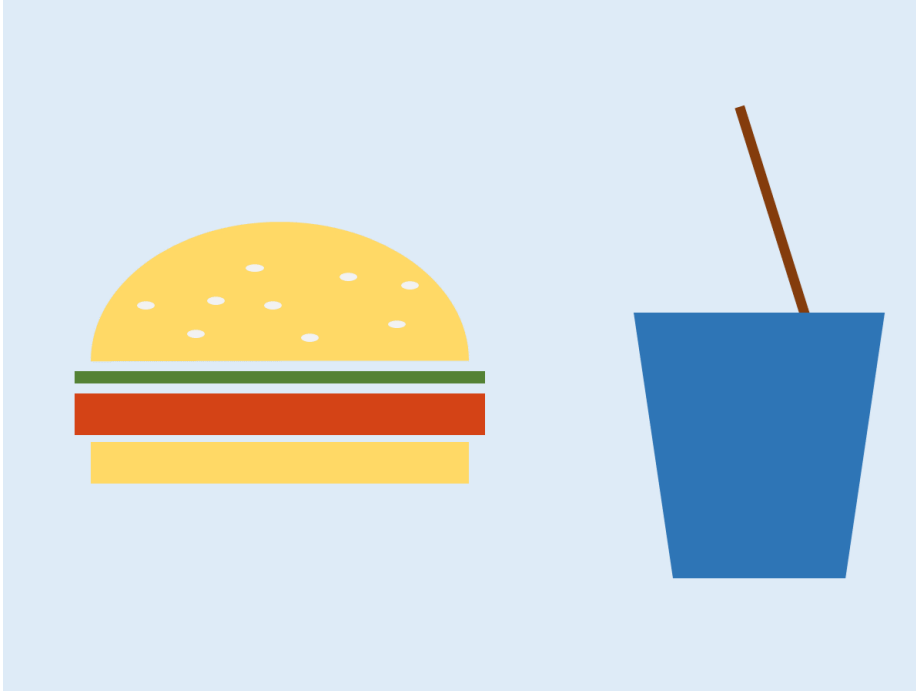
Type-in the above program
in the Code Editor

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 codeguppy.com
and click "Code Now" button

2

Type-in the above program
in the Code Editor

3

Press "Run"
and enjoy!

Cane

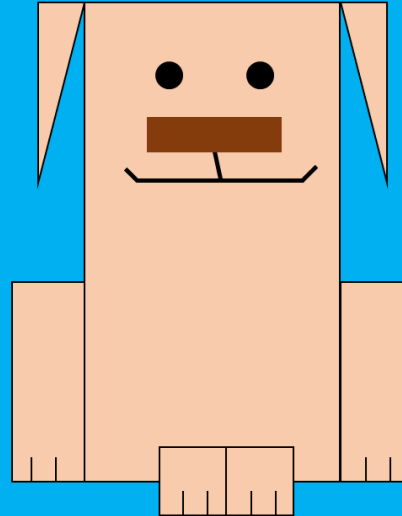
Type-in JavaScript Program

```
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

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and click "Code Now" button

2

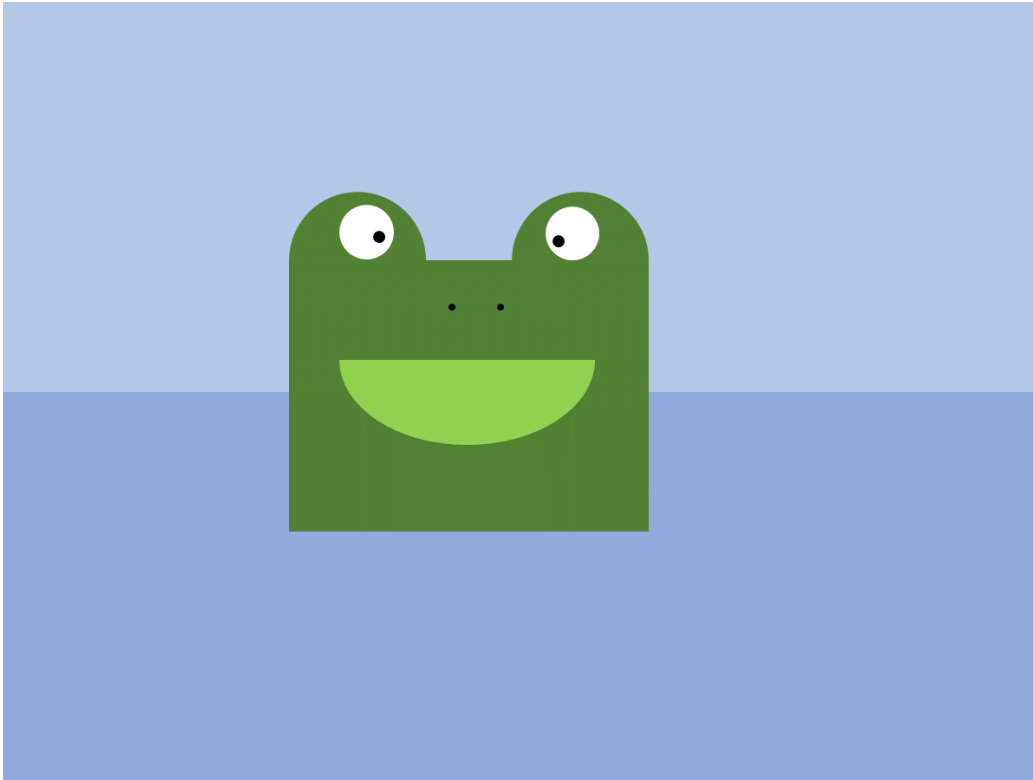
Type-in the above program
in the Code Editor

3

Press "Run"
and enjoy!

Rana

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

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and click "Code Now" button

2

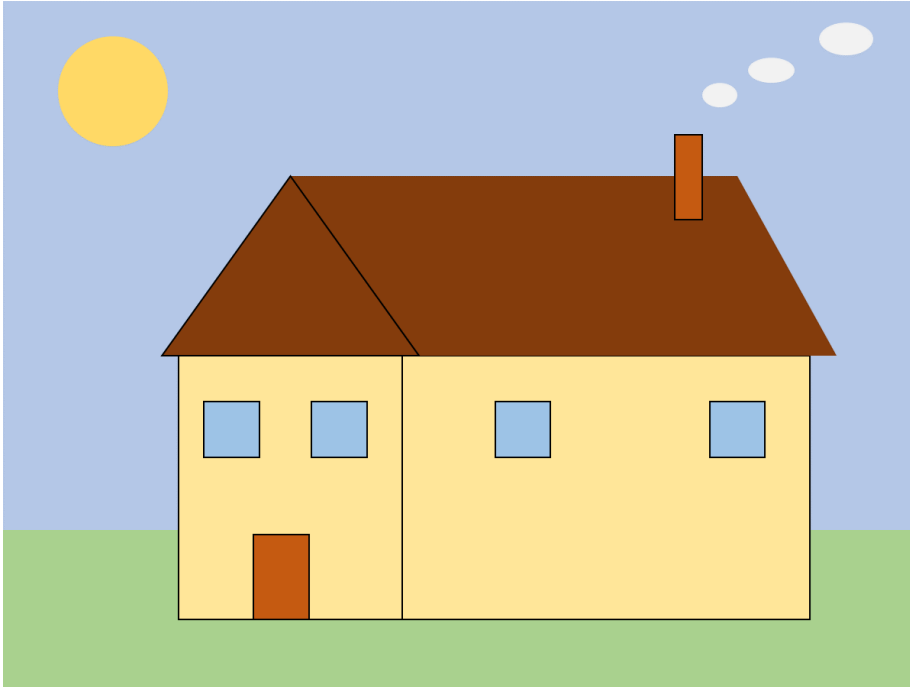
Type-in the above program
in the Code Editor

3

Press "Run"
and enjoy!

Casa 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 codeguppy.com
and click "Code Now" button

2

Type-in the above program
in the Code Editor

3

Press "Run"
and enjoy!

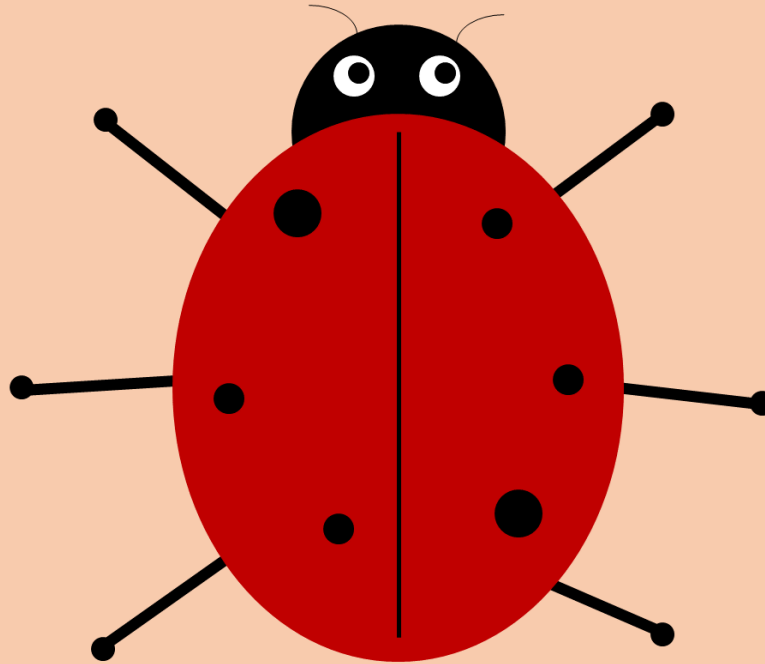
Coccinella

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 codeguppy.com
and click "Code Now" button

2

Type-in the above program
in the Code Editor

3

Press "Run"
and enjoy!

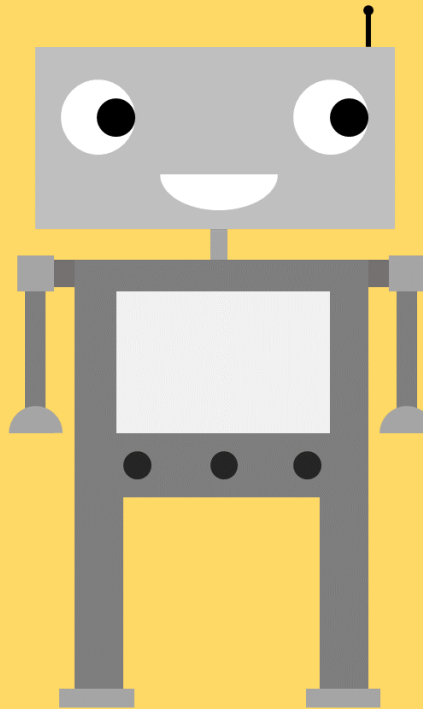
Robot 2

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

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and click "Code Now" button

2

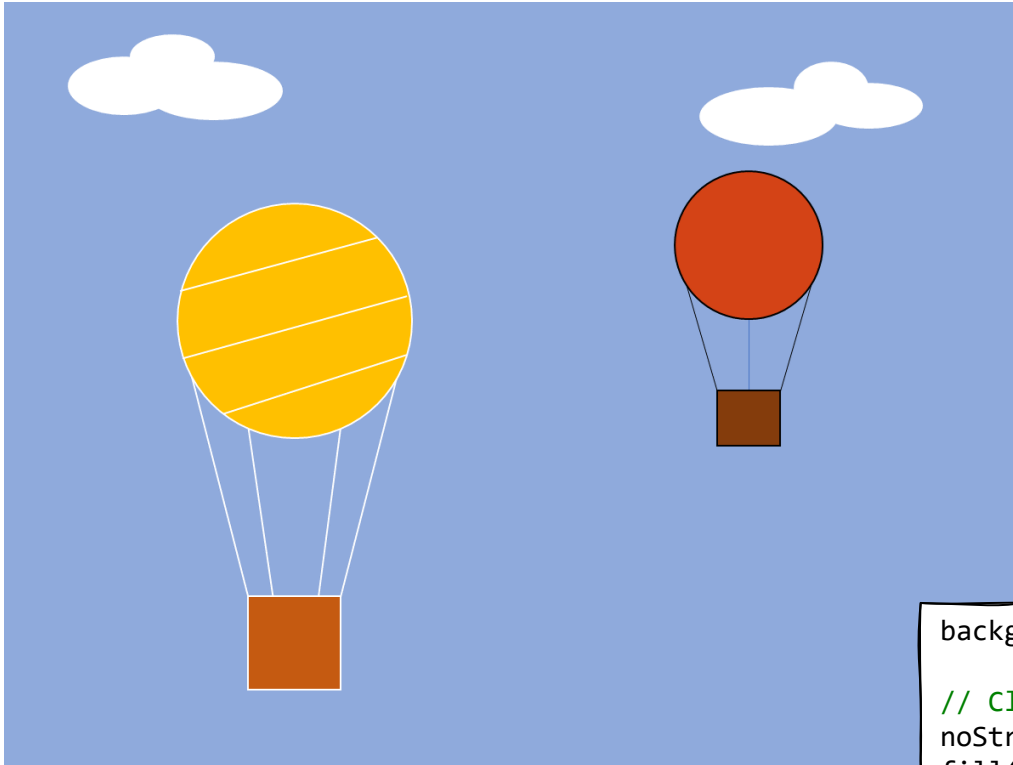
Type-in the above program
in the Code Editor

3

Press "Run"
and enjoy!

Mongolfiere

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 codeguppy.com
and click "Code Now" button

2

Type-in the above program
in the Code Editor

3

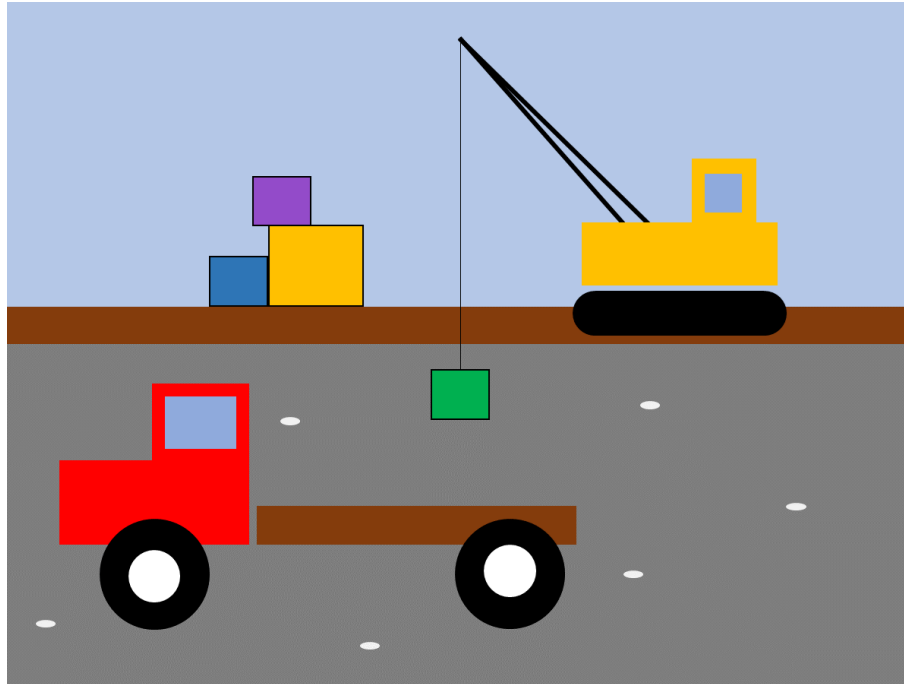
Press "Run"
and enjoy!

Camion

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

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2

Type-in the above program
in the Code Editor

3

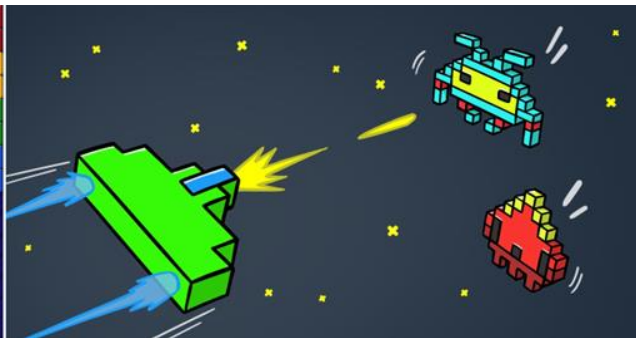
Press "Run"
and enjoy!

Questi programmi “Disegna con il codice” sono offerti da codeguppy.com – il divertente sito per programmare per bambini, ragazzi e adulti creativi.

Visita <https://codeguppy.com> per maggiori progetti!

Per notizie e aggiornamenti segui su Twitter [@codeguppy](https://twitter.com/codeguppy)!

Traduzione in italiano di Susy Del Fabro



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-600>

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