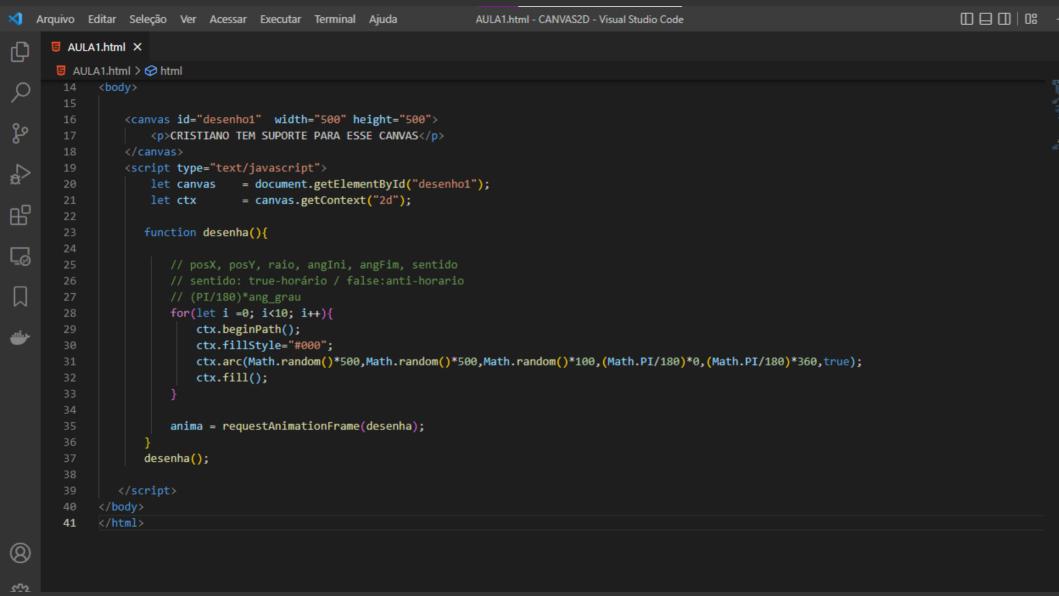


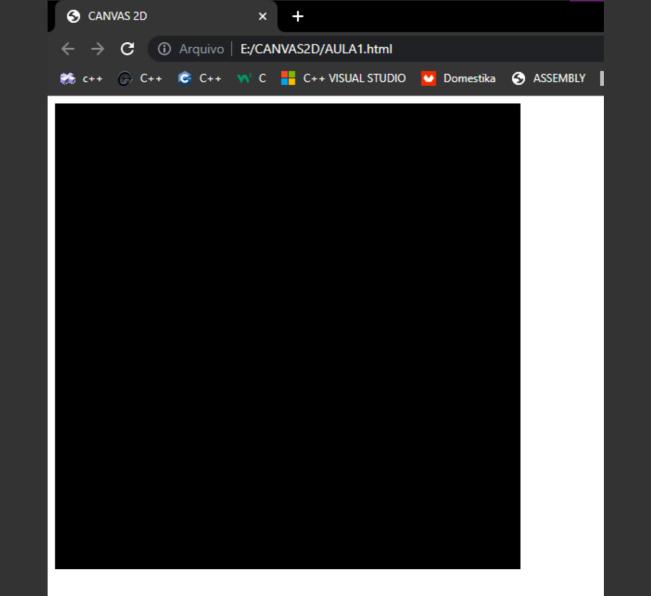
```
for(let i =0; i<10; i++){
          ctx.beginPath();
          ctx.fillStyle="#000";
          ctx.arc(Math.random()*100,Math.random()*100,Math.random()*100,(Math.PI/180)*0,(Math.PI/180)*360,true);
          ctx.fill();
    }</pre>
```

```
Arquivo Editar Seleção Ver Acessar Executar Terminal Ajuda
                                                                       AULA1.html - CANVAS2D - Visual Studio Code
      ■ AULA1.html ×

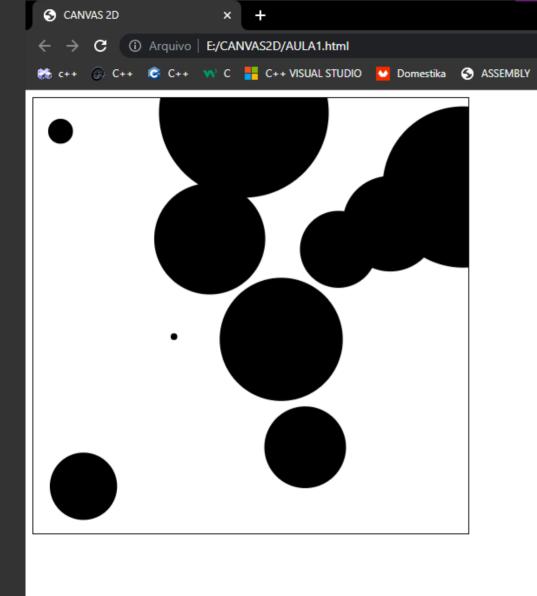
■ AULA1.html >  html

                 <canvas id="desenho1" width="500" height="500">
ည
                     CRISTIANO TEM SUPORTE PARA ESSE CANVAS
                 <script type="text/javascript">
                     let canvas
                                   = document.getElementById("desenho1");
                                   = canvas.getContext("2d");
                     let ctx
                    function desenha(){
                        // posX, posY, raio, angIni, angFim, sentido
                        // sentido: true-horário / false:anti-horario
                        // (PI/180)*ang grau
                        for(let i =0; i<10; i++){
                            ctx.beginPath();
                            ctx.fillStyle="#000";
                            ctx.arc(Math.random()*100,Math.random()*100,Math.random()*100,(Math.PI/180)*0,(Math.PI/180)*360,true);
                            ctx.fill();
                        anima = requestAnimationFrame(desenha);
                    desenha();
                </script>
             </html>
        41
(8)
```

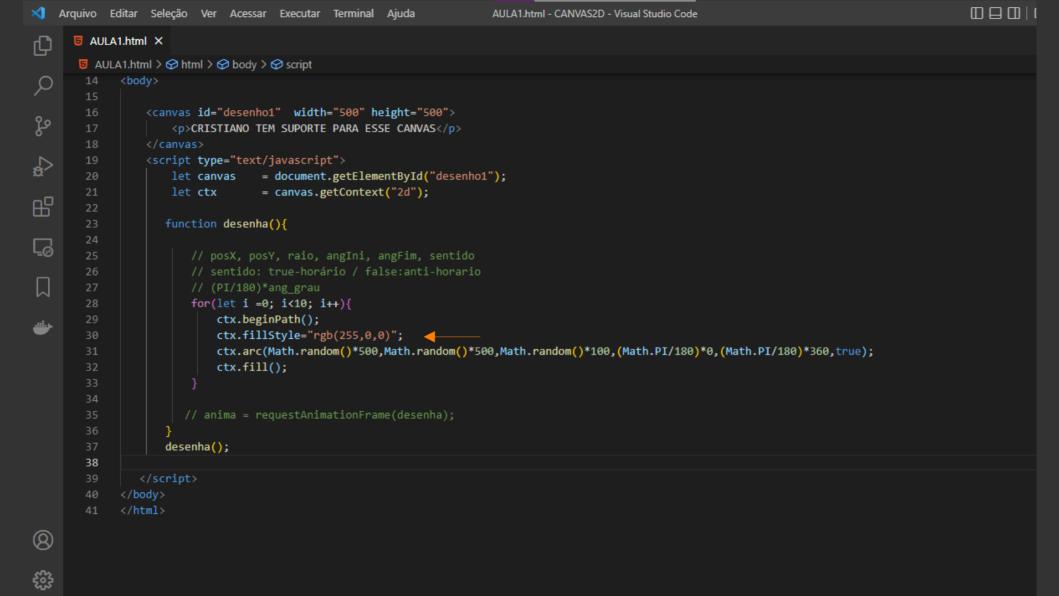


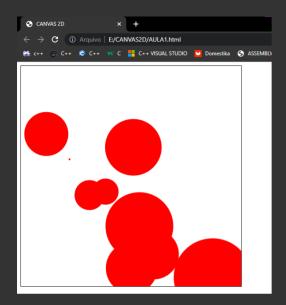


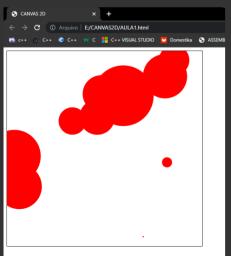
```
Arquivo Editar Seleção Ver Acessar Executar Terminal Ajuda
                                                                         AULA1.html - CANVAS2D - Visual Studio Code
      ■ AULA1.html ×
       ■ AULA1.html > �� html > �� body > �� script > �� desenha
              <body>
                  <canvas id="desenho1" width="500" height="500">
عع
                      CRISTIANO TEM SUPORTE PARA ESSE CANVAS
                  <script type="text/javascript">
                      let canvas
                                    = document.getElementById("desenho1");
                      let ctx
                                    = canvas.getContext("2d");
function desenha()
                         // posX, posY, raio, angIni, angFim, sentido
                         // sentido: true-horário / false:anti-horario
                         // (PI/180)*ang grau
                         for(let i =0; i<10; i++){
                             ctx.beginPath();
                             ctx.fillStyle="#000";
                             ctx.arc(Math.random()*500,Math.random()*500,Math.random()*100,(Math.PI/180)*0,(Math.PI/180)*360,true);
                             ctx.fill();
                     desenha();
                 </script>
(8)
202
```

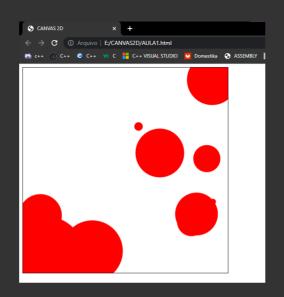


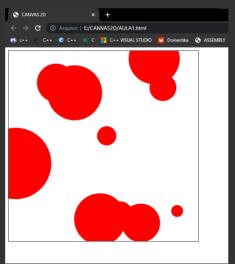
Cada vez que for atualizada surge um Novo desenho

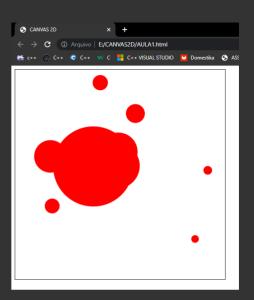


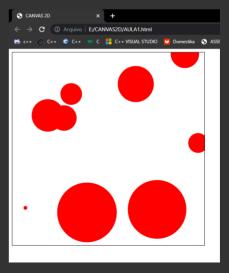












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   Arquivo Editar Seleção Ver Acessar Executar Terminal Ajuda
                                                                         AULA1.html - CANVAS2D - Visual Studio Code
      ■ AULA1.html ×
D

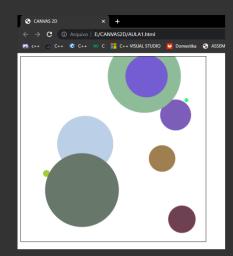
■ AULA1.html > 

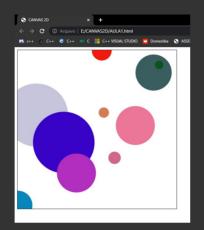
html > 

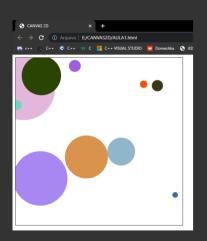
body > 

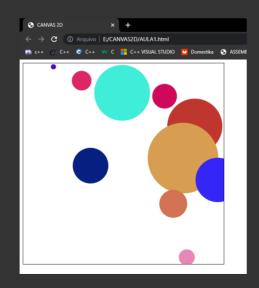
script

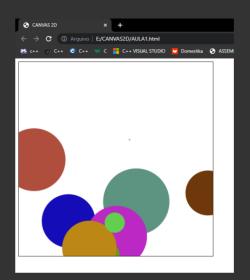
                  <canvas id="desenho1" width="500" height="500">
مړ
                      CRISTIANO TEM SUPORTE PARA ESSE CANVAS
                  <script type="text/javascript">
                      let canvas
                                    = document.getElementById("desenho1");
                      let ctx
                                    = canvas.getContext("2d");
留
                     function desenha(){
// posX, posY, raio, angIni, angFim, sentido
                         // sentido: true-horário / false:anti-horario
                         // (PI/180)*ang grau
                         for(let i =0; i<10; i++){
                             ctx.beginPath();
                             ctx.fillStyle="rgb("+Math.random()*250+","+Math.random()*250+","+Math.random()*250+")";
                             ctx.arc(Math.random()*500,Math.random()*500,Math.random()*100,(Math.PI/180)*0,(Math.PI/180)*360,true);
                             ctx.fill();
                     desenha();
        38
                </script>
             </body>
(8)
503
```

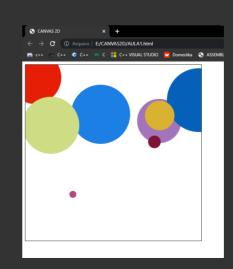


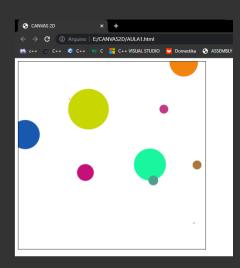


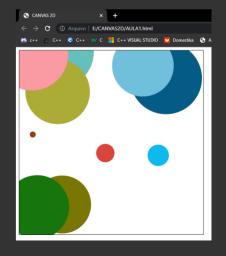




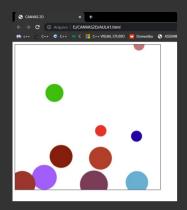






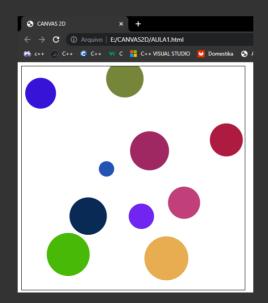


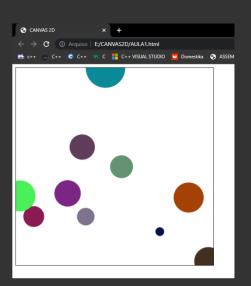
```
Arguivo Editar Seleção Ver Acessar Executar Terminal Ajuda
                                                                      AULA1.html - CANVAS2D - Visual Studio Code
      ■ AULA1.html X
D
      ■ AULA1.html > ♦ html > ♦ body > ♦ script > ♦ desenha
<canvas id="desenho1" width="500" height="500">
                     CRISTIANO TEM SUPORTE PARA ESSE CANVAS
留
                 <script type="text/javascript">
                     let canvas
                                   = document.getElementById("desenho1");
let ctx
                                   = canvas.getContext("2d");
                     let tamMax
                                   = 40;
                     let tamMin
                                   = 10;
                    function desenha()
                        // posX, posY, raio, angIni, angFim, sentido
                        // sentido: true-horário / false:anti-horario
                        // (PI/180)*ang grau
                        for(let i =0; i<10; i++){
                            ctx.beginPath();
                            ctx.fillStyle="rgb("+Math.random()*250+","+Math.random()*250+","+Math.random()*250+")";
                            ctx.arc(Math.random()*500,Math.random()*500,Math.random()*tamMax+tamMin,(Math.PI/180)*0,(Math.PI/180)*360,true);
                            ctx.fill();
       38
                    desenha();
                </script>
```

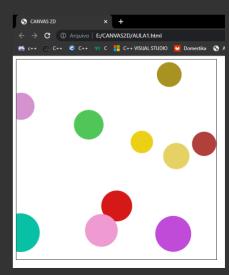




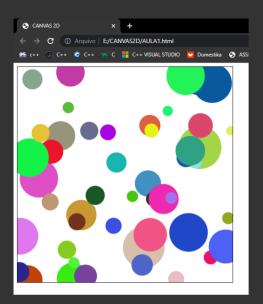


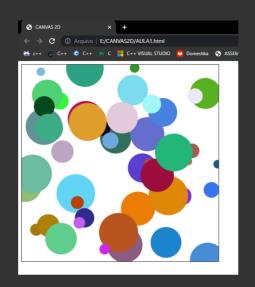


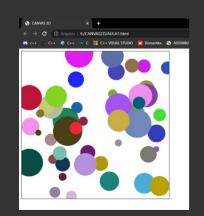


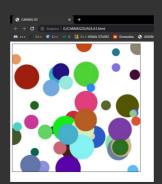


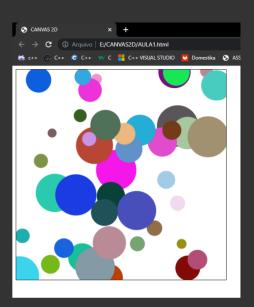
```
Arquivo Editar Seleção Ver Acessar Executar Terminal Ajuda
                                                                       AULA1.html - CANVAS2D - Visual Studio Code
      ■ AULA1.html X
       ■ AULA1.html > ♦ html > ♦ body > ♦ script > ♦ desenha
                 <canvas id="desenho1" width="500" height="500">
                     CRISTIANO TEM SUPORTE PARA ESSE CANVAS
                 <script type="text/javascript">
                     let canvas
                                   = document.getElementById("desenho1");
let ctx
                                   = canvas.getContext("2d");
                     let tamMax
                                     = 40;
                     let tamMin
                                     = 10;
                     let maxCirculos = 50;
                    function desenha()
                        // posX, posY, raio, angIni, angFim, sentido
                        // sentido: true-horário / false:anti-horario
                        // (PI/180)*ang grau
                        for(let i =0; i<maxCirculos; i++){</pre>
                            ctx.beginPath();
                            ctx.fillStyle="rgb("+Math.random()*250+","+Math.random()*250+","+Math.random()*250+")";
                            ctx.arc(Math.random()*500,Math.random()*500,Math.random()*tamMax+tamMin,(Math.PI/180)*0,(Math.PI/180)*360,true);
                            ctx.fill();
        39
                       // anima = requestAnimationFrame(desenha);
                    desenha();
                </script>
```





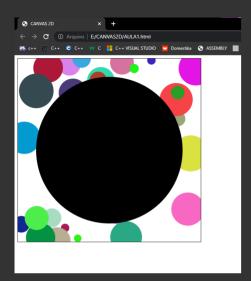


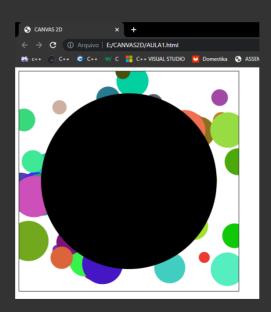


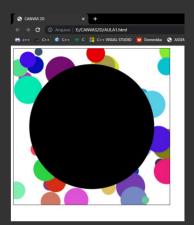


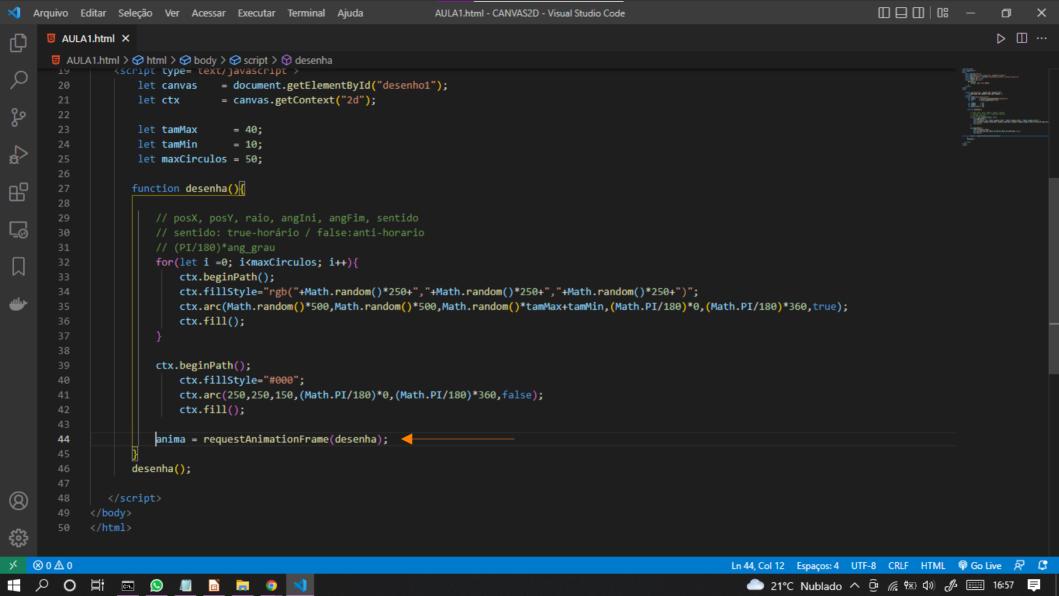


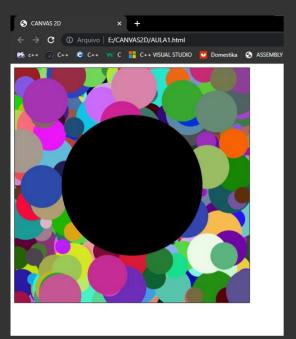
```
Arquivo Editar Seleção Ver Acessar Executar Terminal Ajuda
                                                                        AULA1.html - CANVAS2D - Visual Studio Code
      ■ AULA1.html ×
       ■ AULA1.html >  html >  body >  script
                 <script type= text/javascript >
                                   = document.getElementById("desenho1");
                      let canvas
                     let ctx
                                    = canvas.getContext("2d");
                                      = 40:
                     let tamMax
                     let tamMin
                                     = 10:
                     let maxCirculos = 50:
品
                     function desenha(){
                        // posX, posY, raio, angIni, angFim, sentido
                        // sentido: true-horário / false:anti-horario
                        // (PI/180)*ang grau
                        for(let i =0; i<maxCirculos; i++){</pre>
                            ctx.beginPath();
                            ctx.fillStyle="rgb("+Math.random()*250+","+Math.random()*250+","+Math.random()*250+")";
                            ctx.arc(Math.random()*500,Math.random()*500,Math.random()*tamMax+tamMin,(Math.PI/180)*0,(Math.PI/180)*360,true);
                            ctx.fill();
                        ctx.beginPath();
                            ctx.fillStyle="#000";
                            ctx.arc(250,250,200,(Math.PI/180)*0,(Math.PI/180)*360,false);
                            ctx.fill();
                       // anima = requestAnimationFrame(desenha);
                    desenha();
        47
                 </script>
```

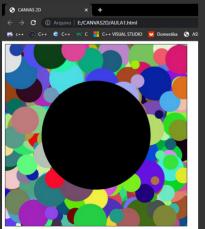


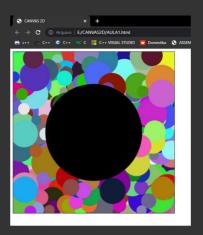




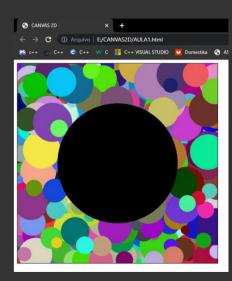






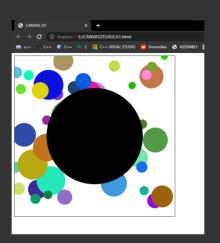


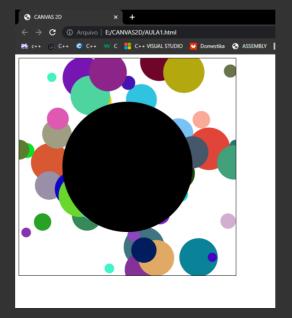
É exibido uma animação Frenetica dos circulos

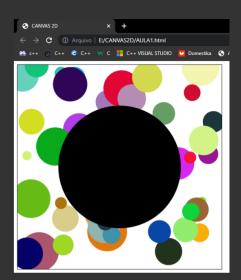


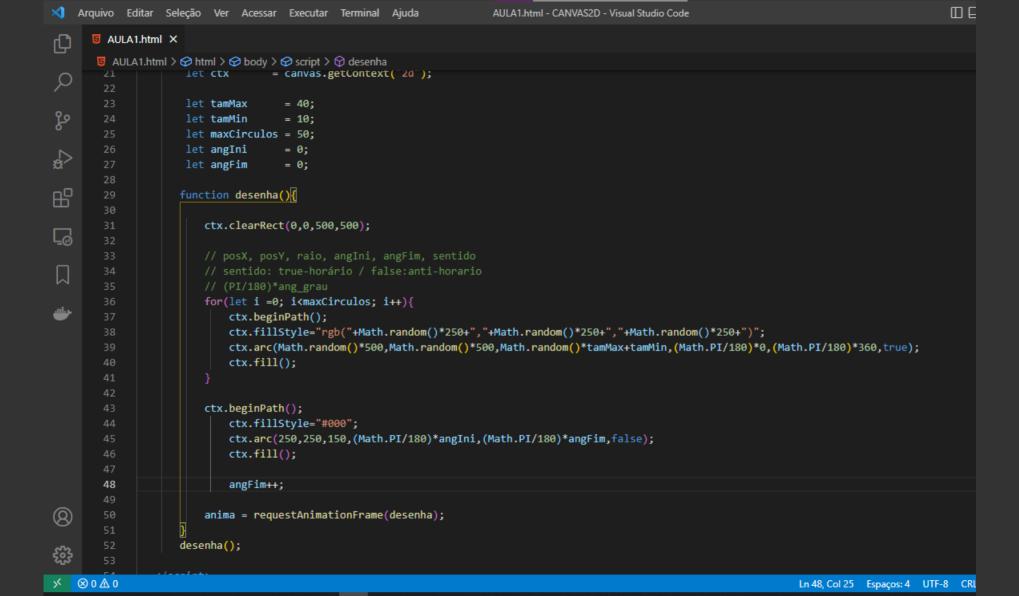
```
Arquivo Editar Seleção Ver Acessar Executar Terminal Ajuda
                                                                    AULA1.html - CANVAS2D - Visual Studio Code
  ■ AULA1.html X
   ■ AULA1.html >  html >  body >  script
                                = document.getElementById("desenho1");
                  let canvas
                  let ctx
                                = canvas.getContext("2d");
                                  = 40;
                  let tamMax
                  let tamMin
                                  = 10:
                  let maxCirculos = 50;
                function desenha(){
                     ctx.clearRect(0,0,500,500);
                     // posX, posY, raio, angIni, angFim, sentido
                     // sentido: true-horário / false:anti-horario
                     // (PI/180)*ang grau
                     for(let i =0; i<maxCirculos; i++){</pre>
                         ctx.beginPath();
                         ctx.fillStyle="rgb("+Math.random()*250+","+Math.random()*250+","+Math.random()*250+")";
                         ctx.arc(Math.random()*500,Math.random()*500,Math.random()*tamMax+tamMin,(Math.PI/180)*0,(Math.PI/180)*360,true);
                         ctx.fill();
                     ctx.beginPath();
                         ctx.fillStyle="#000";
                         ctx.arc(250,250,150,(Math.PI/180)*0,(Math.PI/180)*360,false);
                         ctx.fill();
                     anima = requestAnimationFrame(desenha);
                desenha();
    49
            </script>
```



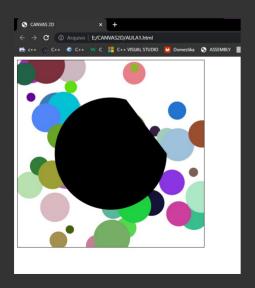


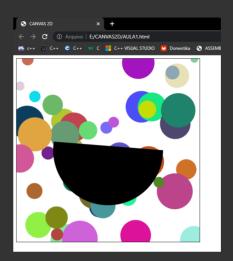


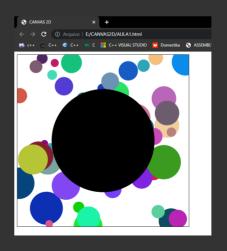


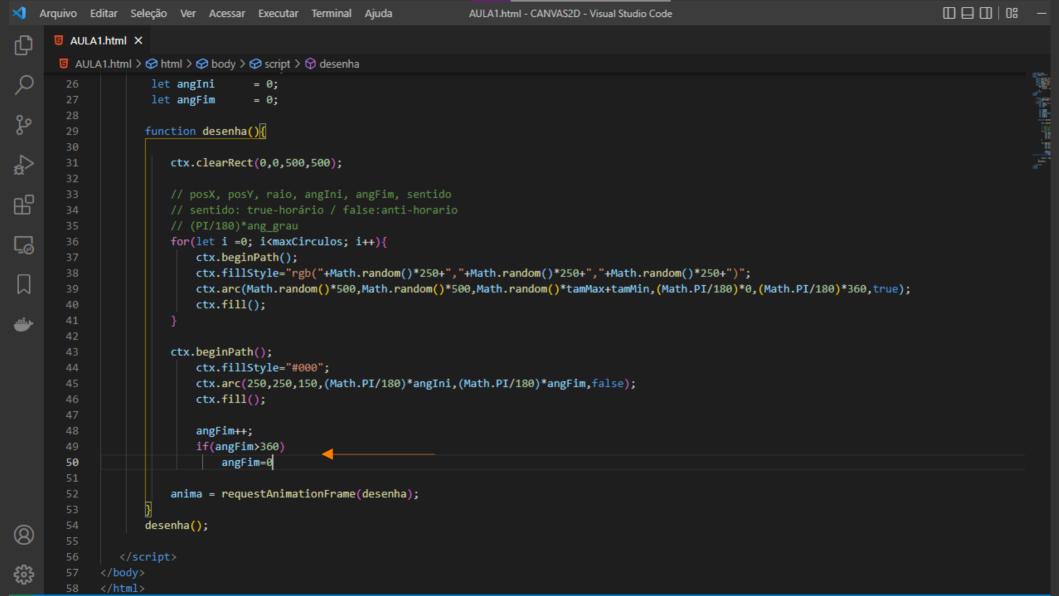


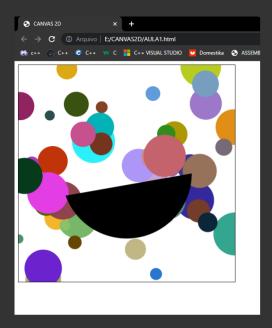












```
O if(angFim>360){
    angFim=0
}
```

Faz o circulo ser redesenhado