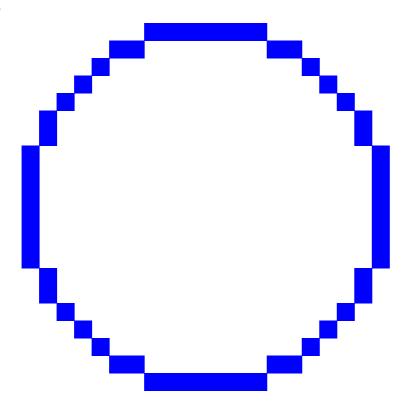
## Infinite tree of circles

```
In[18]:=
DrawCircle[origin_, r_]:=Module[{pixelList = {}, h, x, y, dU, dD},
     h = 1 - r;
     x = 0;
     y = r;
     AppendTo[pixelList, {x, y}];
     While [y > x,
         If [h < 0,
             dU = 2 * x + 3;
             h = h + dU;
             dD = 2 * (x - y) + 5;
             h = h + dD;
             y = y - 1;
         x = x + 1;
         AppendTo[pixelList, {x, y}];
     pixelList = EightWaySymmetry[pixelList];
     pixelList = # + origin & /@ pixelList;
     Return[pixelList];
```

## Graphics[DrawPixel[DrawCircle[{10,10}, 10]]]

Out[86]=



```
In[82]:=
 InfiniteCircle[origin_, r_, n_] := Module[{pixelList={}},
     If [n = 0,
          Return[pixelList];
     ];
     pixelList = Join[pixelList, DrawPixel[DrawCircle[origin, r]]];
     pixelList = Join[pixelList, InfiniteCircle[{origin[1] + r + r/2, origin[2]}}, r/2,
     pixelList = Join[pixelList, InfiniteCircle[{origin[1] - r - r/2, origin[2]}}, r/2,
     pixelList = Join[pixelList, InfiniteCircle[\{origin[1] \ , \ origin[2] \ - \ r \ - \ r/2\}, \ r/2,
     pixelList = Join[pixelList, InfiniteCircle[\{origin[1] \ , \ origin[2] \ + \ r \ + \ r/2\}, \ r/2,
     Return[pixelList];
 ]
```

## Graphics[InfiniteCircle[{0,0}, 800, 6]]

Out[100]=

