

Pensieve header: A cubical elephant. Coordinates from <http://www.blendswap.com/blends/view/18009>.

```
SetDirectory["C:\\drorbn\\AcademicPensieve\\Classes\\1617-257b-AnalysisII"];  
vs = Get["../2013-04/Elephant/ElephantVertices.m"];  
{x0, y0, z0}, {x1, y1, z1} = {Min /@ Transpose[vs], Max /@ Transpose[vs]}
```

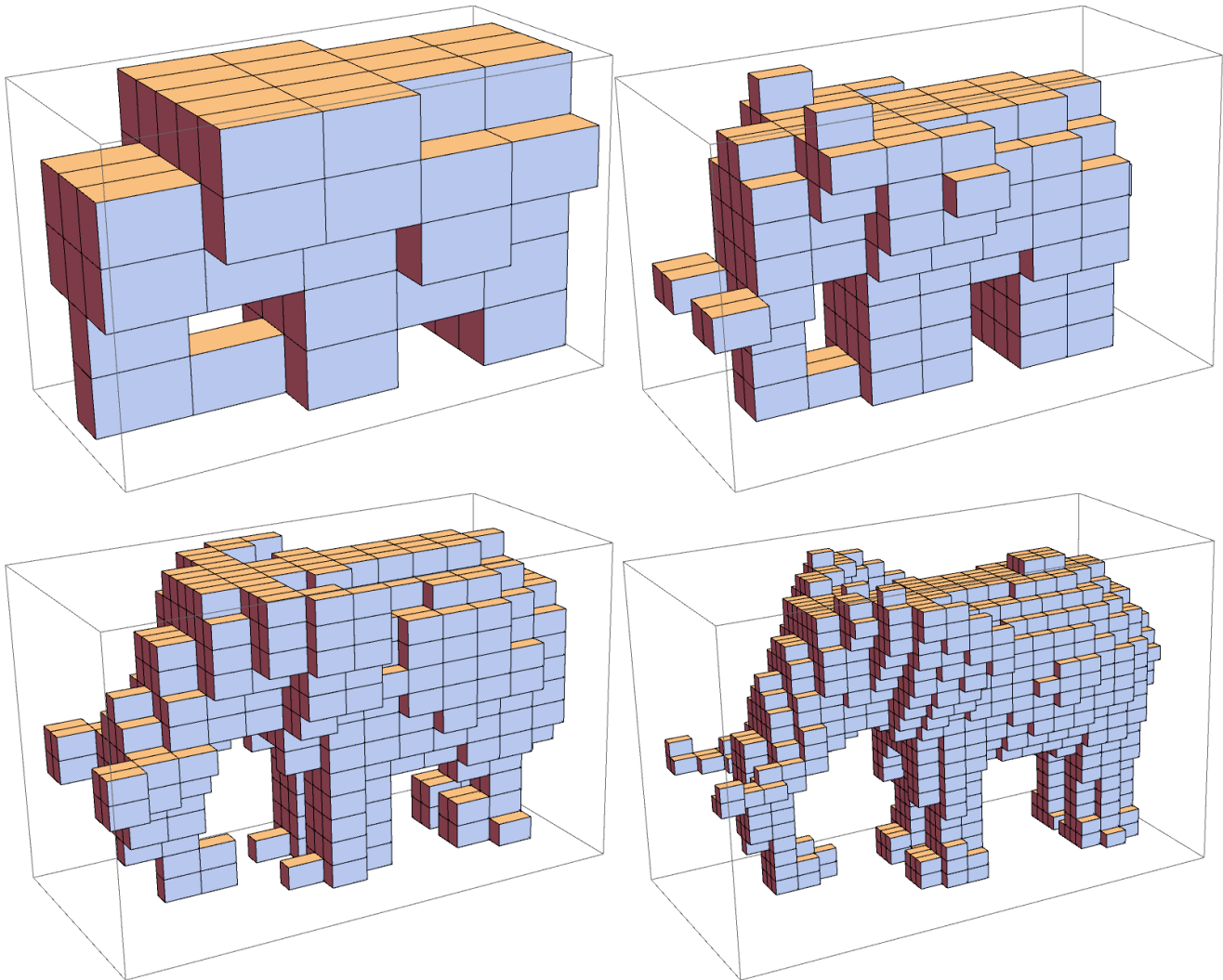
```
{-1.03688, -2.45196, -1.37261}, {1.03688, 1.91604, 1.35422}
```

```
Q[x_, x0_, dx_] := x0 + dx / 2 + Round[(x - x0 - dx / 2) / dx] dx;
```

```

img = ImageAssemble[Partition[
  imgs = Table[
    {dx, dy, dz} =  $\frac{\{x_1, y_1, z_1\} - \{x_0, y_0, z_0\}}{n}$ ;
    Rasterize[
      Graphics3D[
        Union@Table[
          P[Q[v[[1]], x0, dx], Q[v[[2]], y0, dy], Q[v[[3]], z0, dz]],
          {v, vs}
        ] /. P[x_, y_, z_] => Cuboid[{x, y, z} - {dx, dy, dz}/2, {x, y, z} + {dx, dy, dz}/2],
        ViewPoint -> {2.82914, -1.44279, 1.16804},
        ViewVertical -> {0.491534, -0.092102, 1.53794}, ImageSize -> {800, 640}
      ]
    ],
  {n, {5, 8, 13, 21}}
],
2]]

```



```
Export["CubicalElephants.png", img]
```

CubicalElephants.png