Hilbert's 13th Problem

Pensieve Header: Hilbert's 13th problem - plots of the Riemann zeta function.

```
<< C:\drorbn\AcademicPensieve\2009-11\Hilbert13th-Program.m

Zeta3D = Rasterize[
  Plot3D[f[x, y], {x, 0, 1}, {y, 0, 1},
   ImageSize → 450
  ], ImageSize → 450, RasterSize → 450
 ]
```
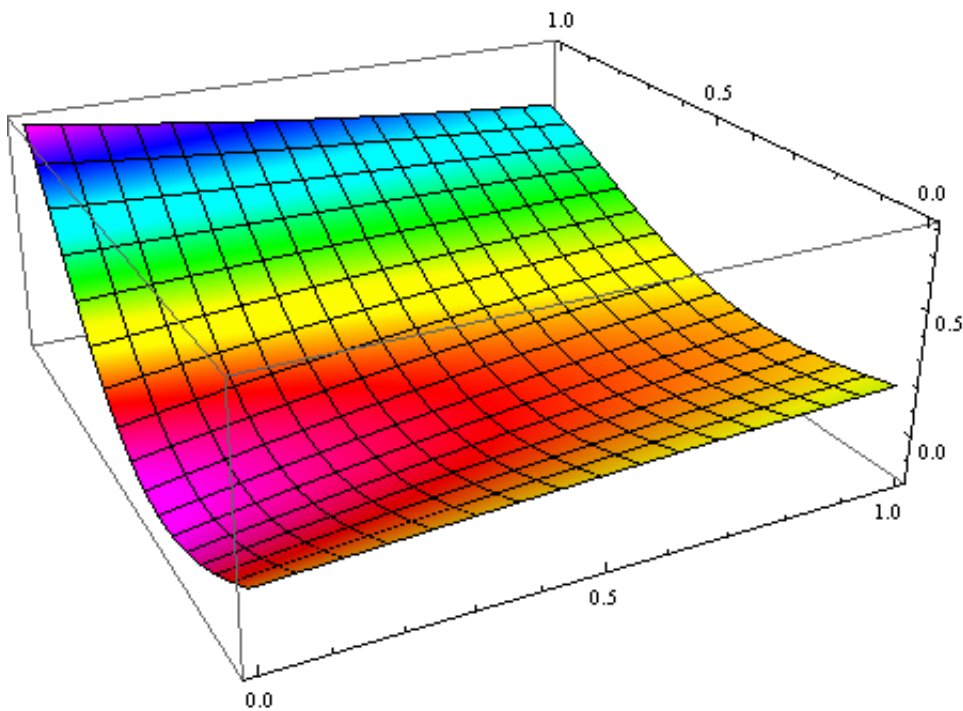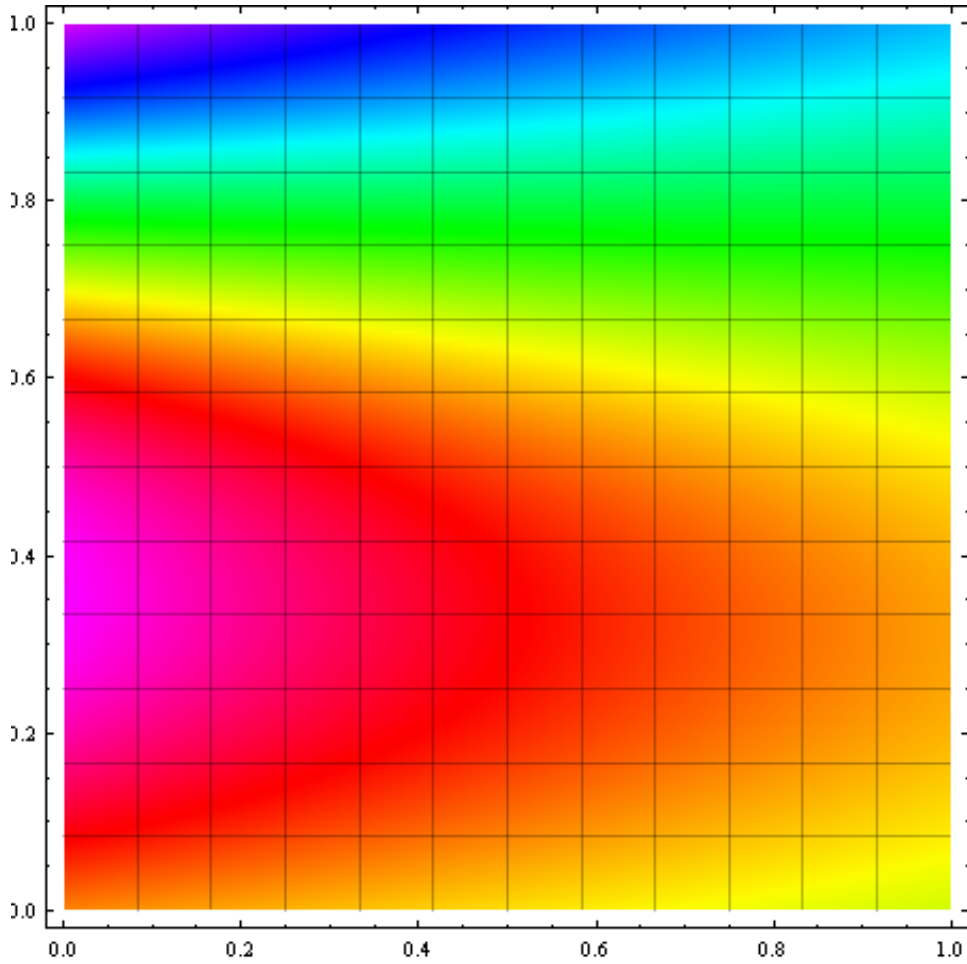


```
Export[
 "C:/drorbn/AcademicPensieve/2009-11/Zeta3D.png",
 ImageCrop[Zeta3D]
]
```
C:/drorbn/AcademicPensieve/2009-11/Zeta3D.png

```
ZetaInHues = Rasterize[
  DensityPlot[f[x, y], {x, 0, 1}, {y, 0, 1},
   Mesh → 11, ImageSize → 450
  ], ImageSize → 450, RasterSize → 450
 ]
```



```
Export[
 "C:/drorbn/AcademicPensieve/2009-11/ZetaInHues.png",
 ImageCrop[ZetaInHues]
]
```

C:/drorbn/AcademicPensieve/2009-11/ZetaInHues.png