

随机三角形网格

```
In[*]:= width = 500;  
height = 500;  
step = 80;
```

```
dots = Table[{i + RandomReal[{-0.4, 0.4}] step - If[EvenQ@(j / step), step / 2, 0],  
             [表格] [伪随机实数] [… [偶数判定]  
             j + RandomReal[{-0.4, 0.4}] step], {i, 0, width, step}, {j, 0, height, step}]  
             [伪随机实数]
```

```
Out[*]=
```

```
{{{-66.3588, -15.6695}, {31.523, 69.8374}, {-20.7861, 189.012},  
  {-14.9413, 223.805}, {-55.733, 327.828}, {27.1656, 372.368}, {-41.9368, 493.841}},  
 {{46.7079, -6.49879}, {69.5475, 99.8301}, {8.97931, 153.095}, {109.882, 248.757},  
  {48.2925, 312.635}, {76.1335, 372.814}, {31.2281, 475.161}},  
 {{104.262, 4.98348}, {150.64, 74.1817}, {98.4893, 174.579}, {136.807, 221.972},  
  {106.871, 298.976}, {180.651, 374.602}, {117.789, 456.518}},  
 {{227.906, -6.85486}, {263.319, 71.7068}, {225.343, 132.193}, {248.905, 226.87},  
  {174.963, 293.743}, {222.664, 389.954}, {213.547, 510.26}},  
 {{268.854, 25.2391}, {335.476, 83.525}, {298.83, 163.806}, {331.802, 235.705},  
  {273.59, 314.094}, {350.072, 396.725}, {284.393, 458.428}},  
 {{331.335, 18.7164}, {409.57, 106.352}, {385.675, 185.016}, {399.082, 247.697},  
  {346.326, 292.369}, {416.38, 374.056}, {349.02, 465.319}},  
 {{413.842, -2.27021}, {499.362, 51.6332}, {456.406, 132.31}, {497.634, 260.695},  
  {462.378, 303.79}, {480.443, 378.587}, {429.539, 458.974}}}
```

`In[#]:=`

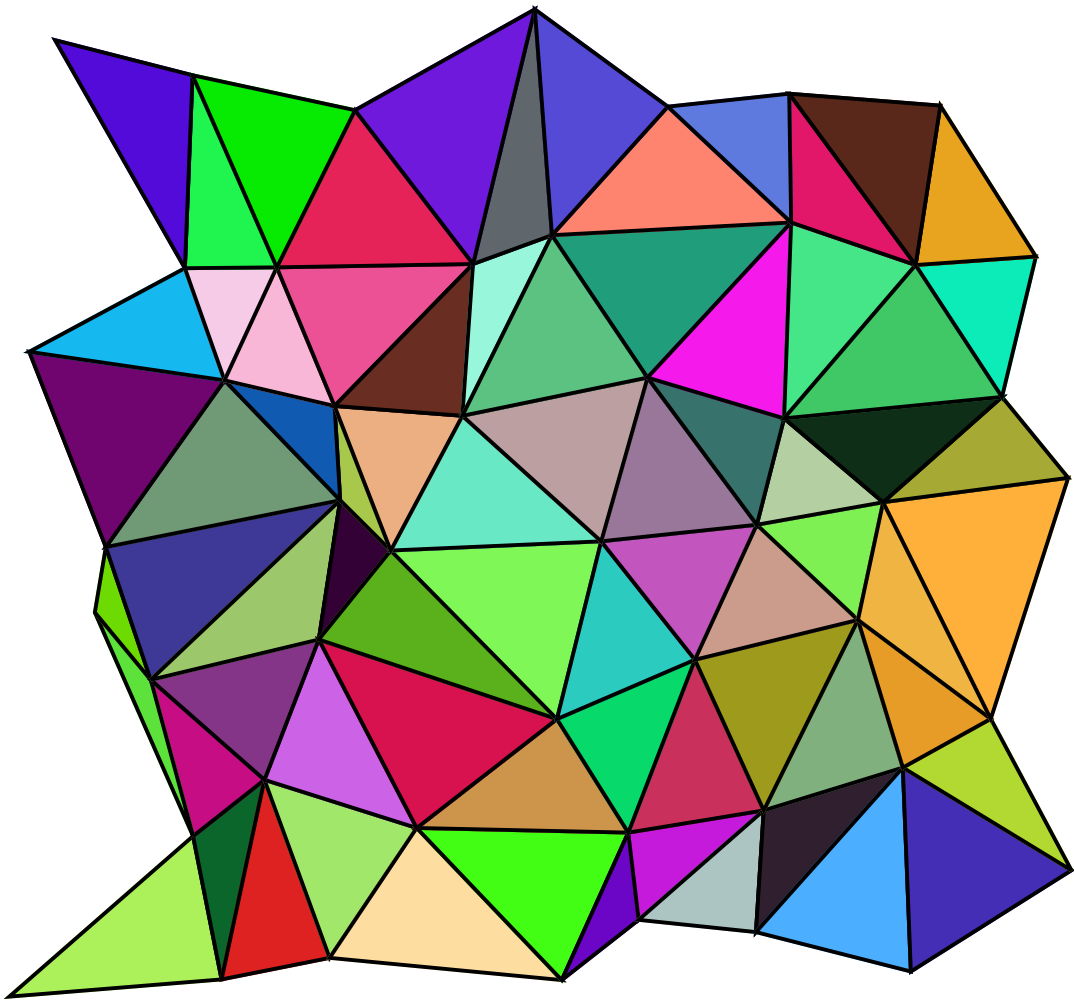
```
(*dots=
  Table[{i-If[EvenQ@(j/step),step/2,0],j},{i,0,width,step},{j,0,height,step}];*)
  |表格      |... |偶数判定

triangles = {};

For[i = 1, i < Length[dots], i++,
  |For循环      |长度
  For[j = 1, j < Length[dots[[i]], j++,
    |For循环      |长度
    If[EvenQ@j,
      |... |偶数判定
      AppendTo[triangles, {dots[[i, j]], dots[[i + 1, j]], dots[[i + 1, j + 1]]}];
      |附加
      AppendTo[triangles, {dots[[i, j]], dots[[i, j + 1]], dots[[i + 1, j + 1]]},
      |附加
      AppendTo[triangles, {dots[[i, j]], dots[[i, j + 1]], dots[[i + 1, j]]}];
      |附加
      AppendTo[triangles, {dots[[i, j + 1]], dots[[i + 1, j]], dots[[i + 1, j + 1]]}];
      |附加
    ]
  ]

Graphics[
  |图形
  {JoinForm["Bevel"], EdgeForm[Thick], RandomColor[], Triangle[#]} & /@ triangles,
  |连接形式      |边的格式  |粗      |随机颜色      |三角形
  ImageSize -> Large]
  |图像尺寸      |大
```

Out[*]=



最后看看用Javascript实现的效果