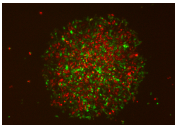


# Composition Notes: Notch

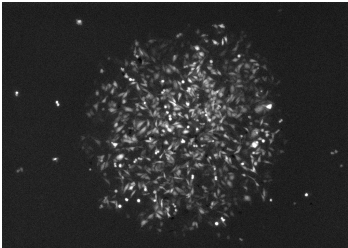
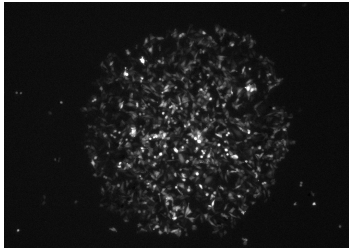
dara@lossofgenerality.com

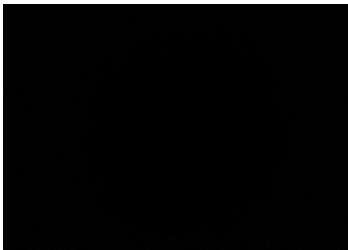
April 4, 2015

Source: <http://www.riken.jp/en/research/rikenresearch/highlights/7994/>

```
In[1]:= img =  ;
```

```
{red, green, blue, h} = ColorSeparate[img]
```

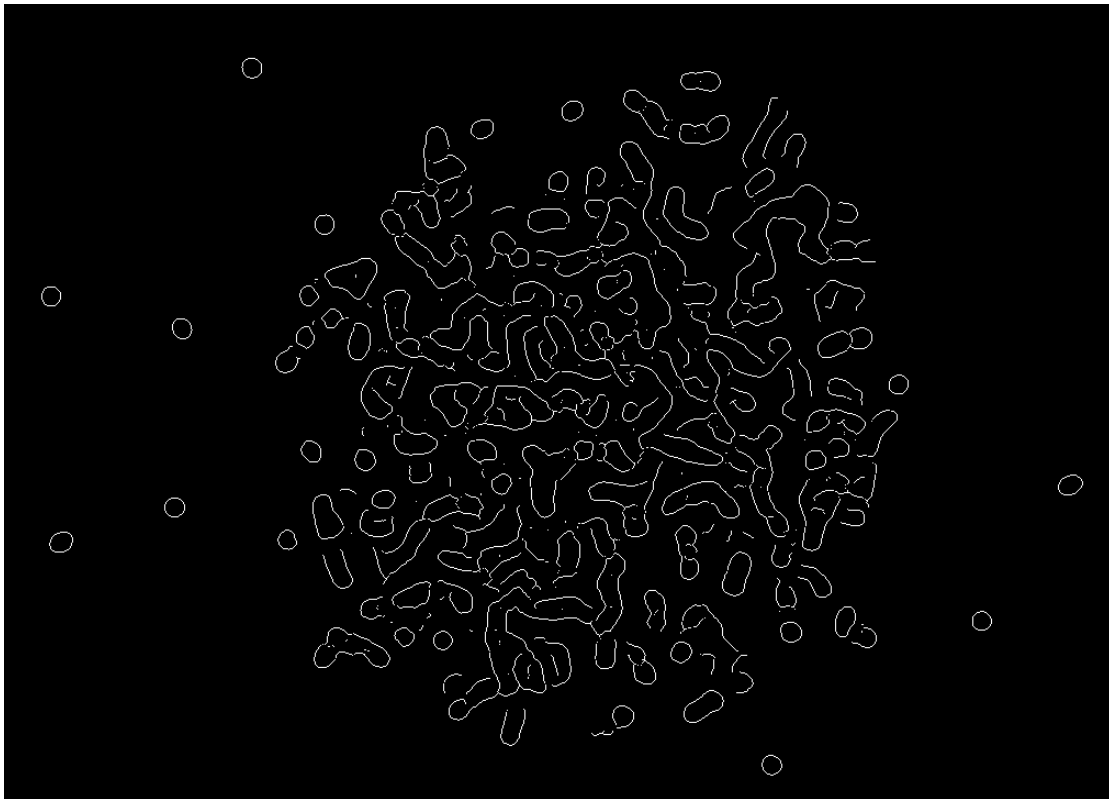
```
Out[2]= {  ,  ,
```

```
 ,
```

```
}
```

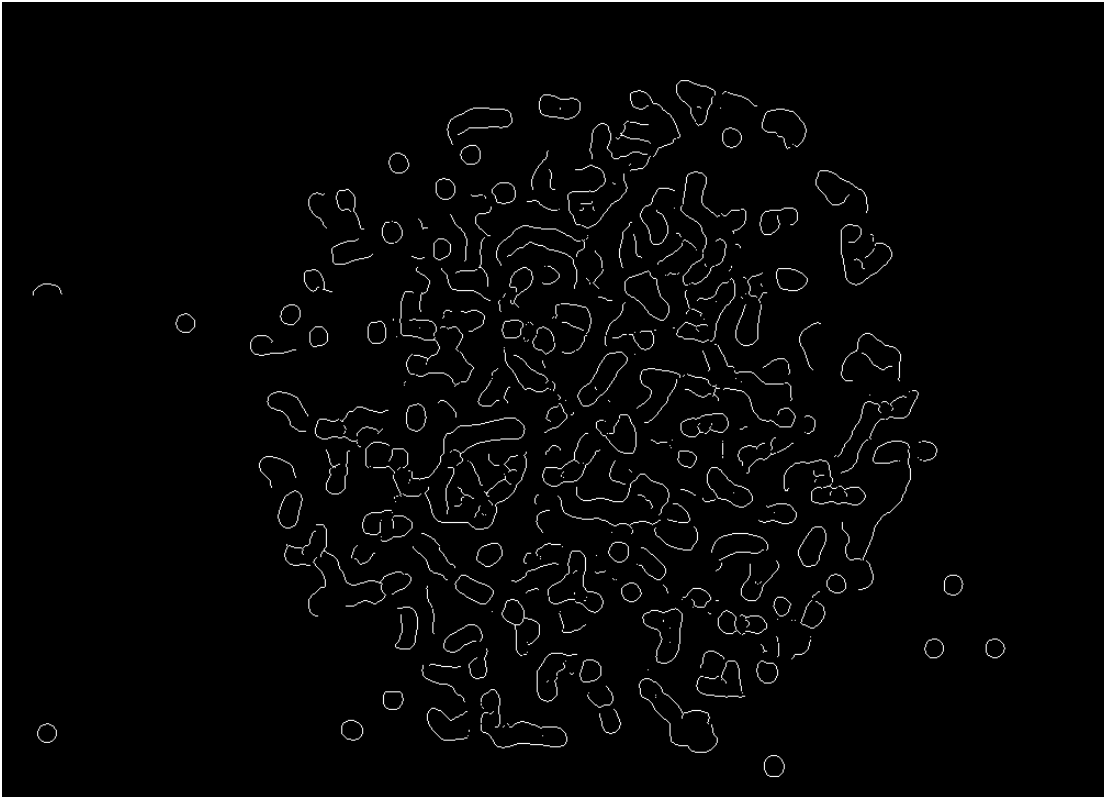
```
In[8]:= red1 = Thinning[EdgeDetect[red, 16], 1]
```

Out[8]=



```
In[9]:= green1 = Thinning[EdgeDetect[green, 16], 1]
```

```
Out[9]=
```



```
In[11]:= Dimensions[ImageData[red1]]
```

```
Out[11]= {725, 1012}
```

```
In[5]:= << "/Users/darashaydalxfer/Documents/Sufi Notes/AAvAA/AAvAA.m"
SetOptions[EvaluationNotebook[],
  PrivateNotebookOptions -> {"PluginToolbarEnabled" -> False}];
```

```
In[13]:= s = Sonify[red1, sclHAR, 0.2 * 260.741 / 4, 10, 30];
```

```
In[14]:= Export["/Users/darashaydalxfer/Documents/Sufi Notes/notch/red_EDGE.wav",
  Play[Evaluate[s /. {"t" -> t}], {t, 0, 30}, SampleRate -> 30 000], "Sound"];
```

```
In[15]:= s = Sonify[green1, sclHAR, 0.2 * 260.741 / 4, 10, 30];
```

```
In[16]:= Export["/Users/darashaydalxfer/Documents/Sufi Notes/notch/green_EDGE.wav",
  Play[Evaluate[s /. {"t" -> t}], {t, 0, 30}, SampleRate -> 30 000], "Sound"];
```

```
In[12]:= sclHAR = {29.25 / 32,
  30.50 / 32,
  31.75 / 32,
  1,
  32.25 / 32,
  32.50 / 32,
  32.75 / 32,
  33 / 32,
  63.25 / 32,
  63.50 / 32,
  63.75 / 32,
```

2,  
64.25 / 32,  
64.50 / 32,  
64.75 / 32,  
65 / 32,  
95.2 / 32,  
95.50 / 32,  
95.75 / 32,  
3,  
96.25 / 32,  
96.50 / 32,  
96.75 / 32,  
97 / 32,  
127.25 / 32,  
127.50 / 32,  
127.75 / 32,  
4,  
128.25 / 32,  
128.50 / 32,  
128.75 / 32,  
129 / 32,  
159.25 / 32,  
159.50 / 32,  
159.75 / 32,  
5,  
160.25 / 32,  
160.50 / 32,  
160.75 / 32,  
161 / 32,  
191.25 / 32,  
191.50 / 32,  
191.75 / 32,  
6,  
192.25 / 32,  
192.50 / 32,  
192.75 / 32,  
193 / 32,  
223.25 / 32,  
223 / 32,  
223.75 / 32,  
7,  
224.25 / 32,  
224.50 / 32,  
224.75 / 32,  
225 / 32,  
255.25 / 32,  
255.50 / 32,  
255.75 / 32,  
8,  
256.25 / 32,  
256.50 / 32,  
256.75 / 32,  
257 / 32,  
287.25 / 32,  
287.50 / 32,

287.75 / 32,  
9,  
288.25 / 32,  
288.50 / 32,  
288.75 / 32,  
289 / 32,  
319.25 / 32,  
319.50 / 32,  
319.75 / 32,  
10,  
320.25 / 32,  
320.50 / 32,  
320.75 / 32,  
321 / 32,  
348.25 / 32,  
349.50 / 32,  
350.75 / 32,  
11,  
352.25 / 32,  
352.50 / 32,  
352.75 / 32,  
353 / 32,  
383.25 / 32,  
383.50 / 32,  
383.75 / 32,  
12,  
384.25 / 32,  
384.50 / 32,  
384.75 / 32,  
385 / 32

};