In[1]:= **SetDirectory["C:/drorbn/classes/LinAlg2/CT"];**
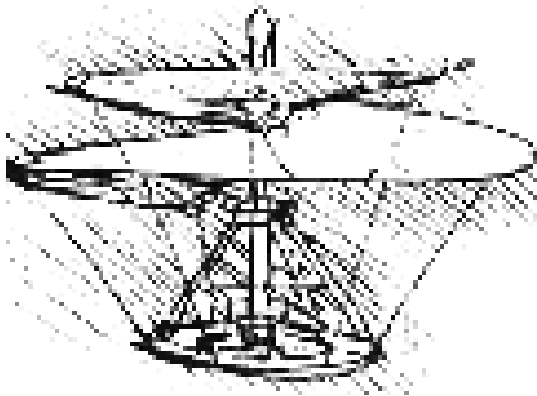
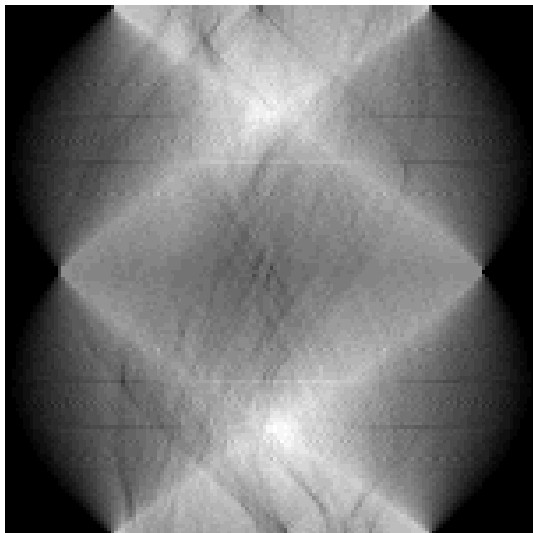*In[2]:=* **Show[pict = Import["DV.gif"]]**

Out[2]= ▪ Graphics ▪

In[3]:= **pixels = N[pict[[1, 1]] / 255];**
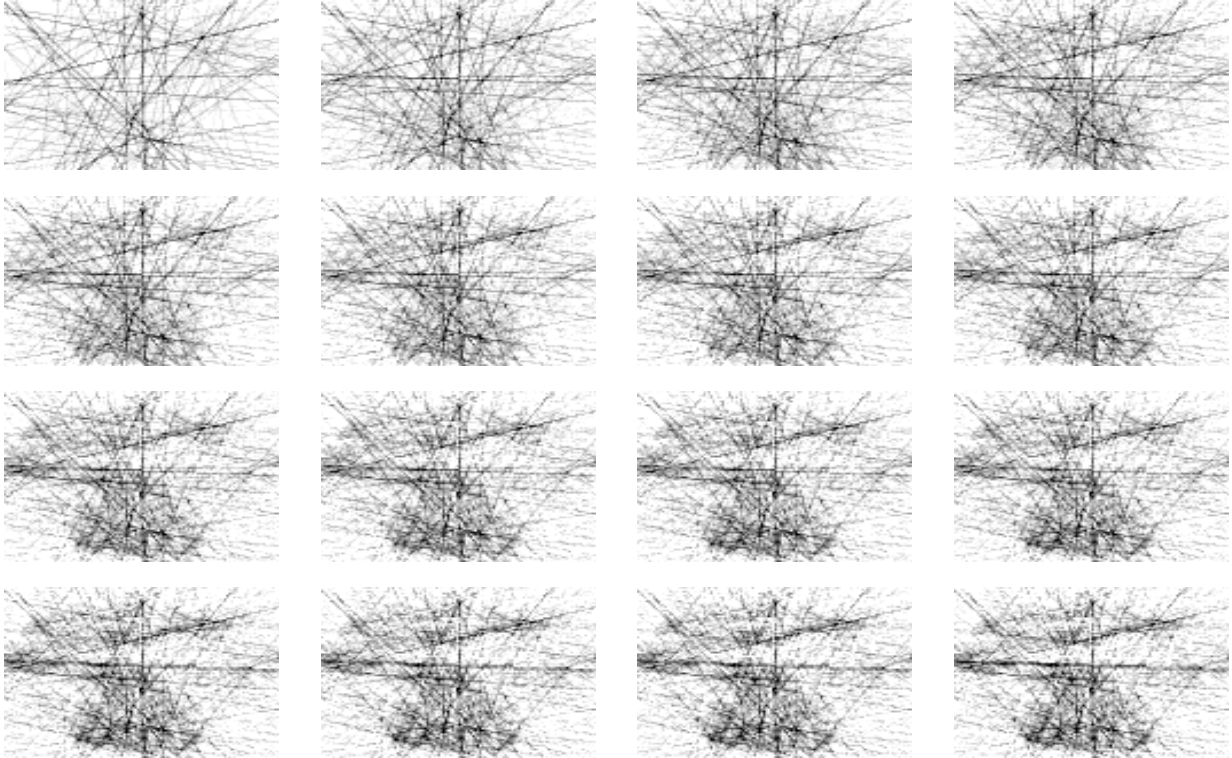**Print[{H, W} = Dimensions[pixels], " ", M = Round[Sqrt[H^2 + W^2]]]**

{90, 120} 150

In[5]:= **CTScan = Table[**
Plus @@ Extract[pixels, Ray[i1, i2]] + 0.1 * Random[Real, {-1, 1}],
{i1, 1, M}, {i2, 0, M}];

In[6]:= **Show[Graphics[Raster[CTScan / Max[CTScan]]], AspectRatio → Automatic]**
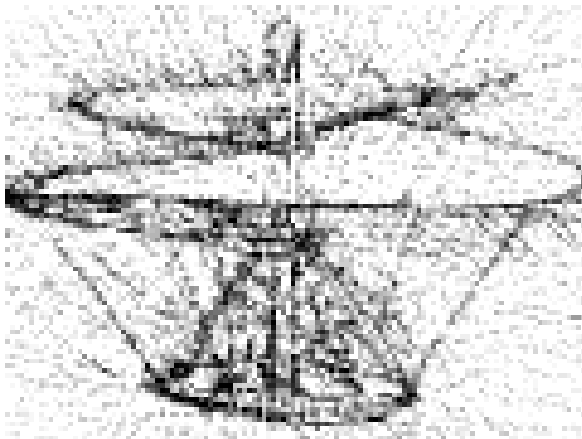

Out[6]= ▪ Graphics ▪

```
In[8]:= guess = Table[1., {H}, {W}]; Show[
          GraphicsArray[
           Partition[Table[Graphics[Raster[guess = ART[guess, 200]]], {16}], 4]],
          AspectRatio → Automatic
        ]
```



```
Out[8]= ▪ GraphicsArray ▪
```

```
In[9]:= Show[Graphics[Raster[guess = ART[guess, 10000]]], AspectRatio → Automatic]
```



```
Out[9]= ▪ Graphics ▪
```