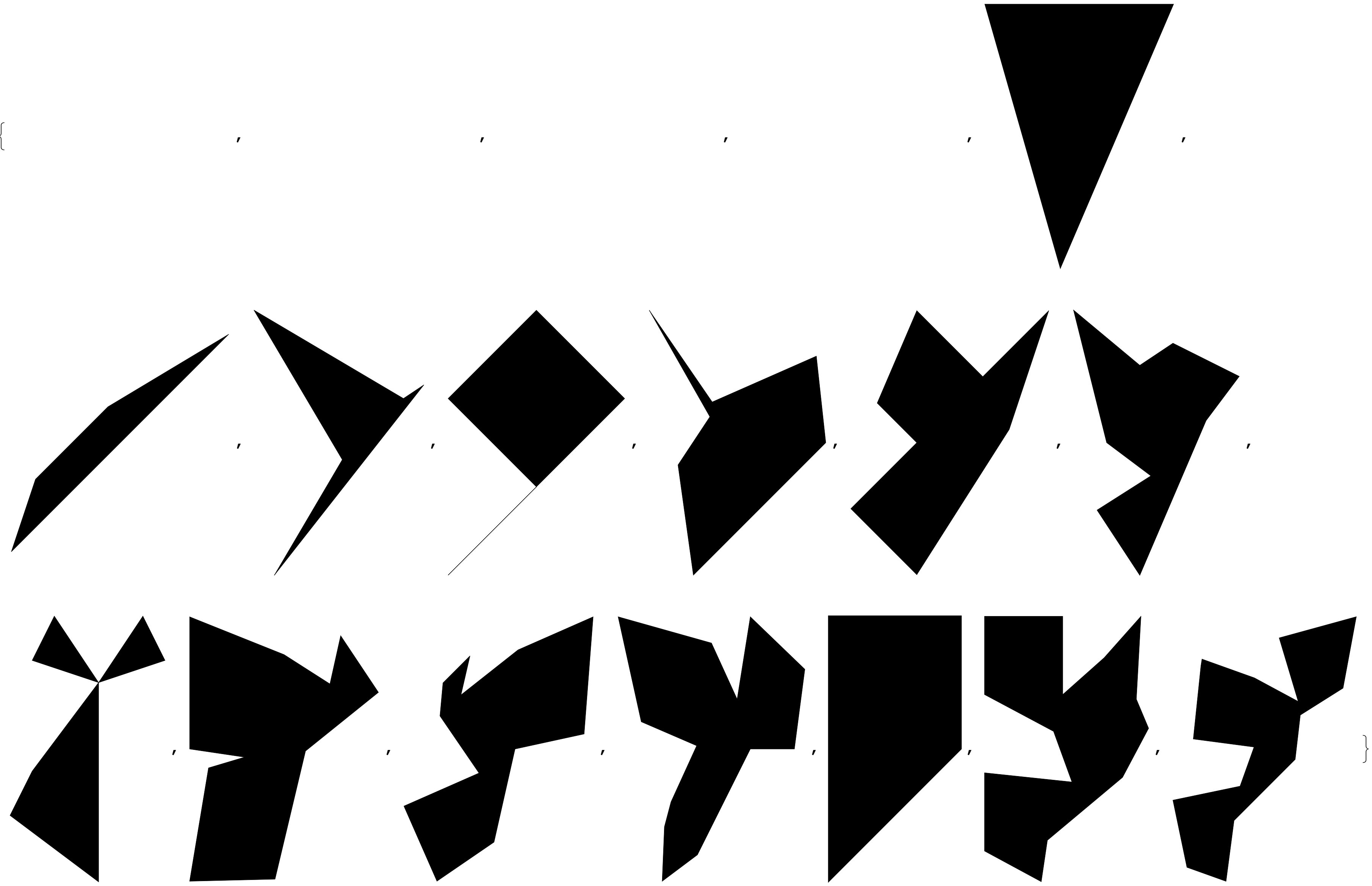
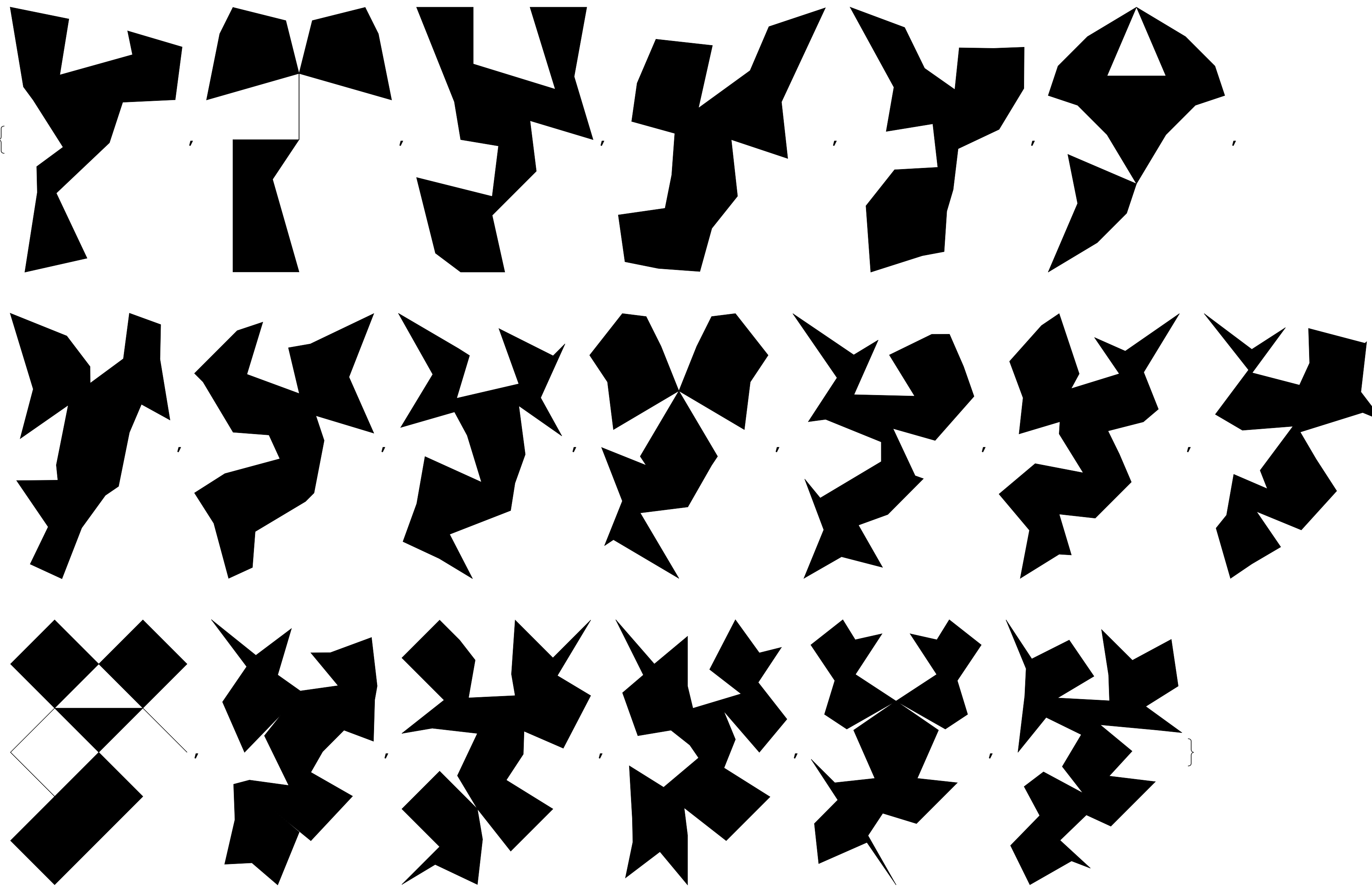


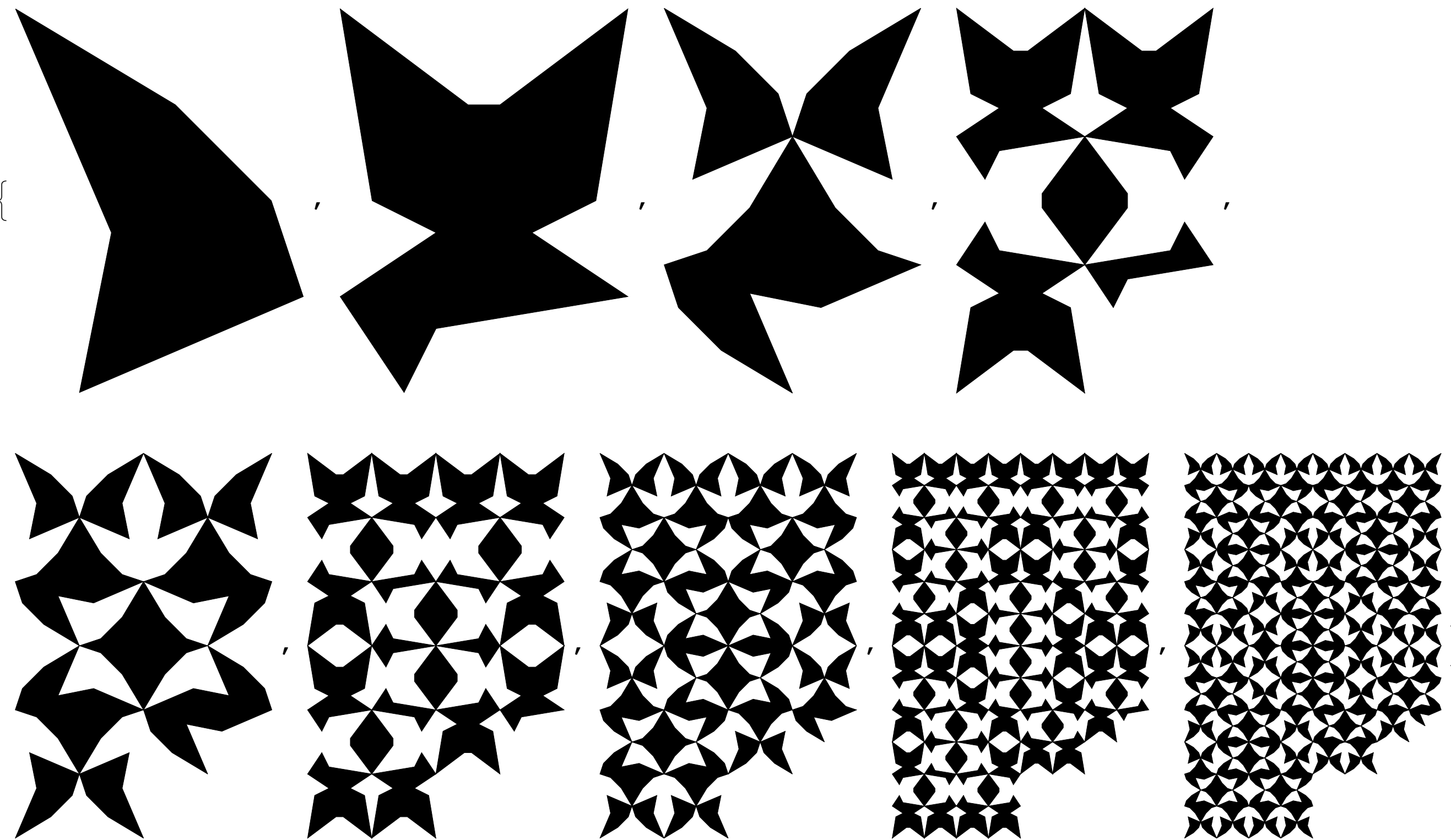
```
In[2]:= hilbert[t_]:=piecewiserecursivefractal[t,Identity,{Min[4,1+Floor[4*#]]}&,{1-4*#&,4*#-1&,4*#-2&,4-4*#&},  
{I*(1-#)/2&,(I+#)/2&,(I+1+#)/2&,1+#*I/2&}]  
  
In[1]:= ClearAll[piecewiserecursivefractal];  
piecewiserecursivefractal[x_,f_,which_,iters_,fns_]:=  
piecewiserecursivefractal[x,g_,which,iters,fns]=((piecewiserecursivefractal[x,h_,which,iters,fns]:=Block[{y},y/.Solve[f[y]==h[y],y]]);  
Union@@({fns[[#]]/@piecewiserecursivefractal[iters[[#]]][x],Composition[f,fns[[#]]],which,iters,fns)&/@which[x]));  
  
(Dialog) In[751]:= Table[Graphics[Polygon@ReIm[First/@hilbert/@Range[1/6+1/2/k,1/2-1/2/k,1/3/k]],{k,18}]  
  
(Dialog) Out[751]=
```



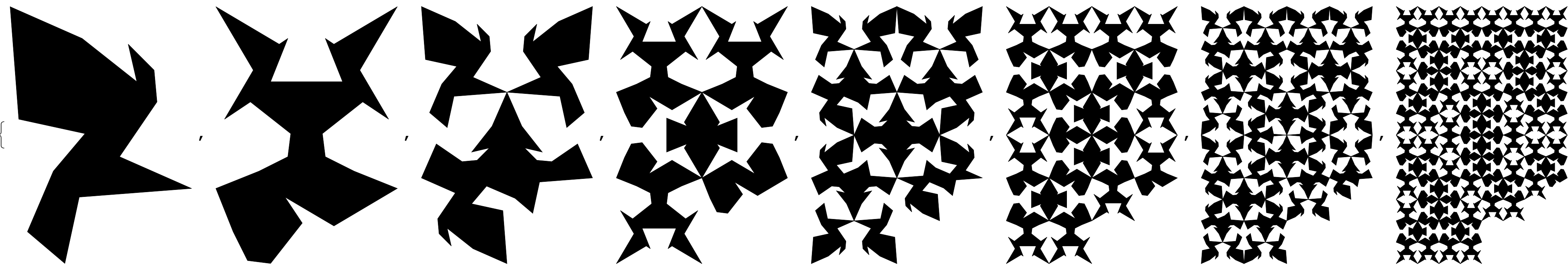
```
(Dialog) In[752]:= Table[Graphics[Polygon@ReIm[First/@hilbert/@Range[1/6+1/2/k,1/2-1/2/k,1/3/k]],{k,19,37}]  
  
(Dialog) Out[752]=
```



```
(Dialog) In[754]:= Table[Graphics[Polygon@ReIm[First/@hilbert/@Range[1/6,1/2,1/3/3/2^k]],{k,9}]  
  
(Dialog) Out[754]=
```



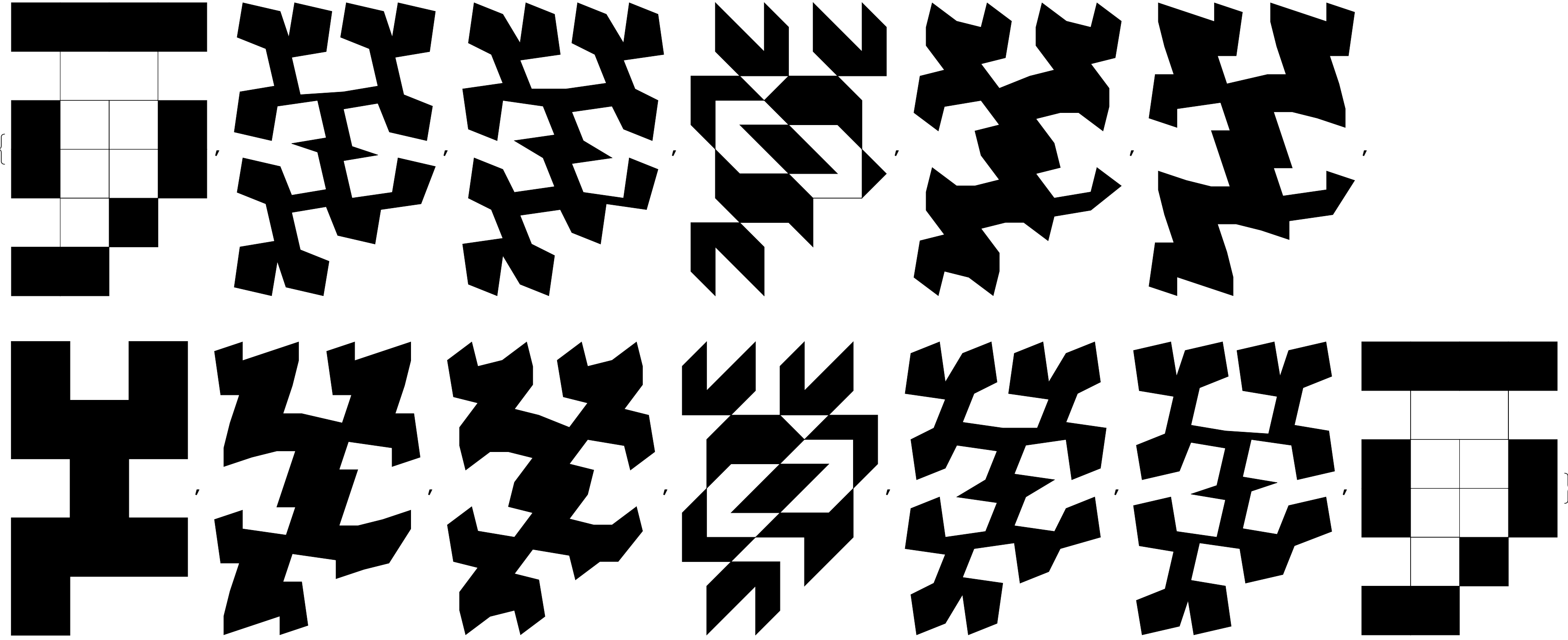
```
(Dialog) In[755]:= Table[Graphics[Polygon@ReIm[First/@hilbert/@Range[1/6,1/2,1/3/7/2^k]],{k,8}]  
  
(Dialog) Out[755]=
```



```
(Dialog) In[756]:= 1/6+Table[areaPolygon[First/@hilbert/@Range[1/6,1/2,1/3/7/2^k]],{k,8}]  
  
(Dialog) Out[756]=
```

```
{11/567, 85/5292, 11/2268, 85/21168, 11/9072, 85/84672, 11/36288, 85/338688}
```

```
(Dialog) In[757]:= Table[Graphics[Polygon@ReIm[First/@hilbert/@Range[1/6+k/12/3/2^6,1/2,1/3/2^6]],{k,0,12}]  
  
(Dialog) Out[757]=
```



```
In[320]:= Table[Graphics[Polygon@ReIm[First/@hilbert/@Range[1/6+1/2/3/2^k,1/2,1/3/2^k]],{k,12}]]//tim  
33.120537,12
```

