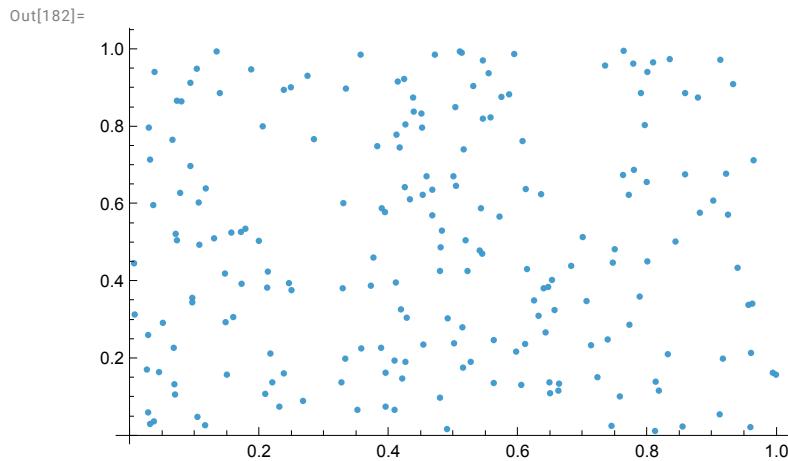


Jeremy — PS 9 — 2025-02-21

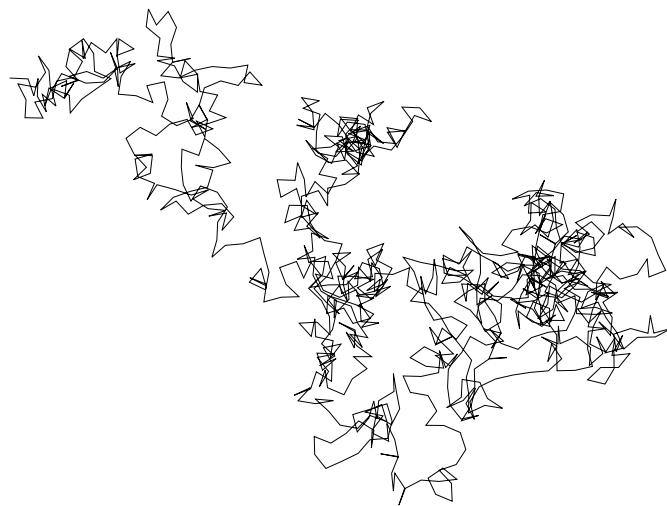
```
In[180]:= N[Sqrt[2], 500]
Out[180]= 1.4142135623730950488016887242096980785696718753769480731766797379907324784621070...
38850387534327641572735013846230912297024924836055850737212644121497099935831413...
22266592750559275579995050115278206057147010955997160597027453459686201472851741...
86408891986095523292304843087143214508397626036279952514079896872533965463318088...
29640620615258352395054745750287759961729835575220337531857011354374603408498847...
16038689997069900481503054402779031645424782306849293691862158057846311159666871...
30130156185689872372
```

```
In[181]:= Table[RandomReal[1], 10]
Out[181]= {0.522867, 0.560395, 0.896463, 0.141271,
0.167687, 0.180701, 0.445241, 0.797723, 0.511001, 0.0476776}
```

```
In[182]:= ListPlot[Table[{RandomReal[1], RandomReal[1]}, 200]]
```

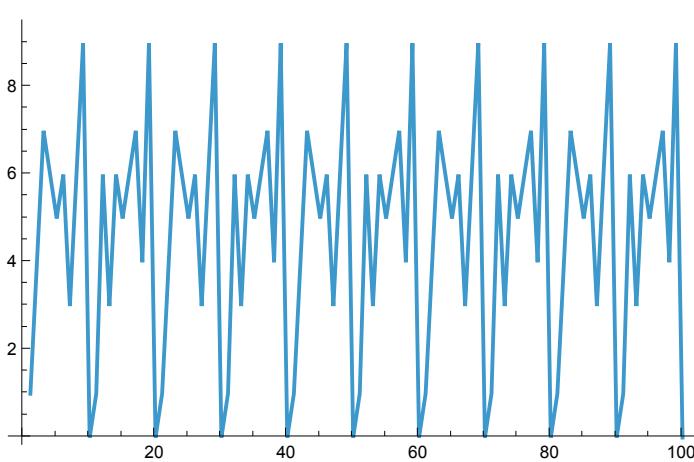


```
In[183]:= Graphics[Line[AnglePath[RandomReal[2 Pi, 1000]]]]
Out[183]=
```



```
In[184]:= Table[Mod[n^2, 10], {n, 0, 30}]
Out[184]= {0, 1, 4, 9, 6, 5, 6, 9, 4, 1, 0, 1, 4, 9, 6, 5, 6, 9, 4, 1, 0, 1, 4, 9, 6, 5, 6, 9, 4, 1, 0}
```

```
In[185]:= ListLinePlot[Table[Mod[n^n, 10], {n, 100}]]
Out[185]=
```

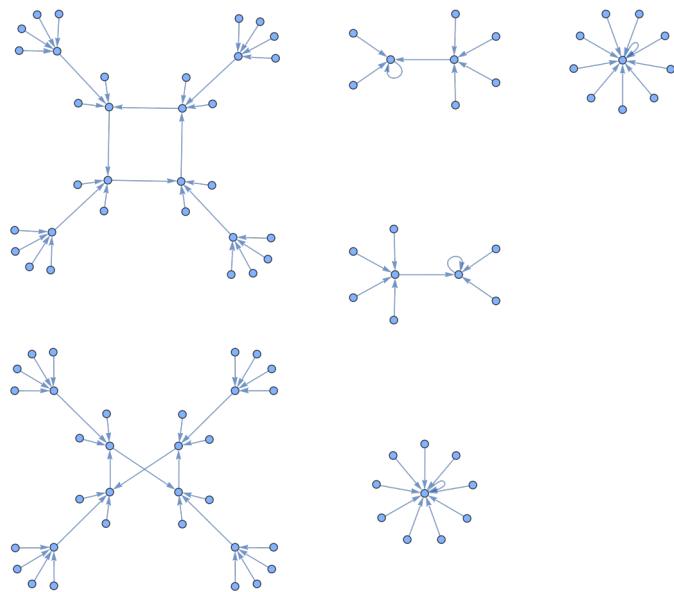


```
In[186]:= Table[Round[Pi^n, 1], {n, 10}]
Out[186]= {3, 10, 31, 97, 306, 961, 3020, 9489, 29809, 93648}
```

In[187]:=

```
Graph[Table[n → Mod[n^2, 100], {n, 0, 99}]]
```

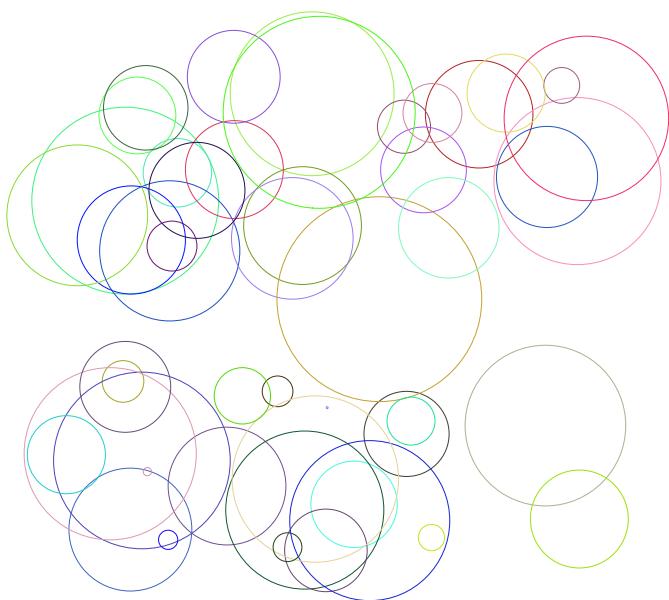
Out[187]=



In[188]:=

```
Graphics[Table[Style[
  Circle[{RandomReal[10], RandomReal[10]}, RandomReal[2]], RandomColor[], 50]]
```

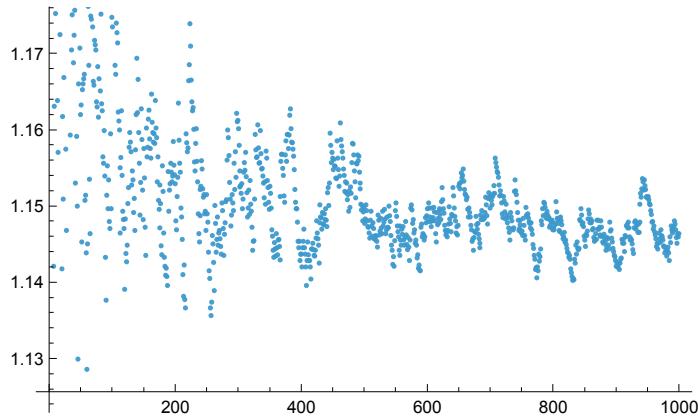
Out[188]=



In[189]:=

```
ListPlot[Table[Prime[n]/(n * Log[n]), {n, 2, 1000}]]
```

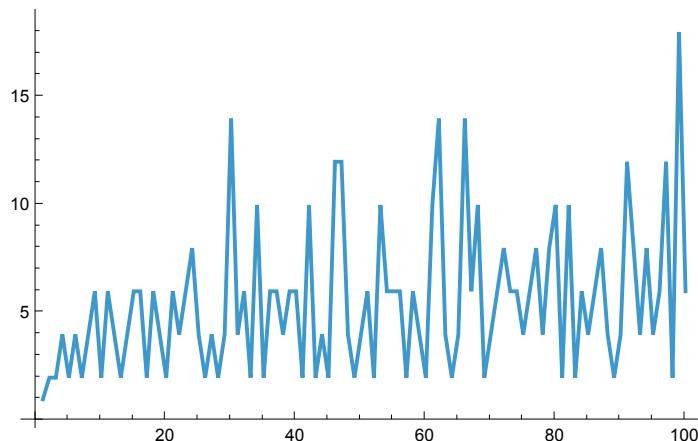
Out[189]=



In[190]:=

```
ListLinePlot[Table[Prime[n + 1] - Prime[n], {n, 100}]]
```

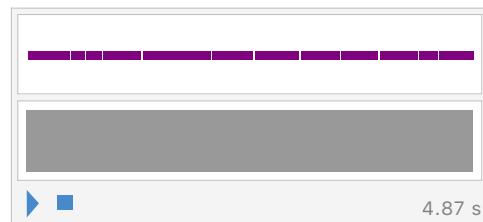
Out[190]=



In[191]:=

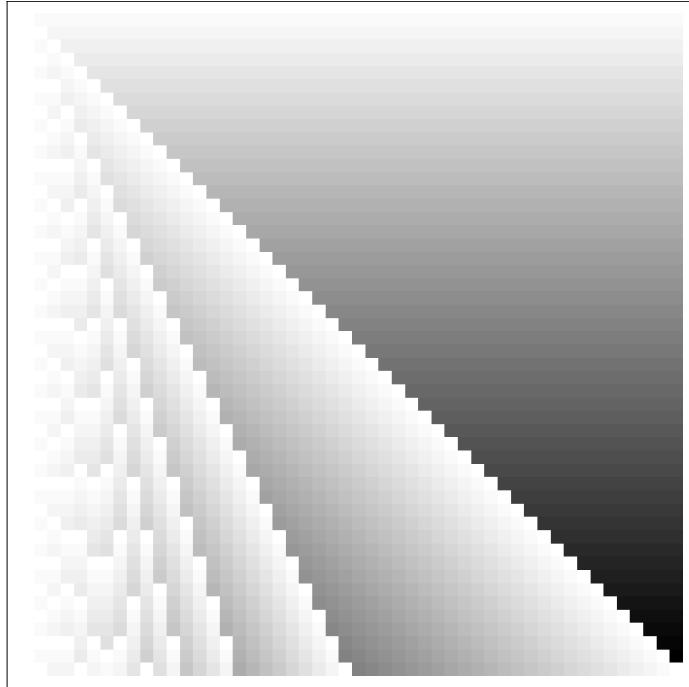
```
Sound[Table[SoundNote["C", RandomReal[0.5]], 20]]
```

Out[191]=



```
In[192]:= ArrayPlot[Table[Mod[i, j], {i, 50}, {j, 50}]]
```

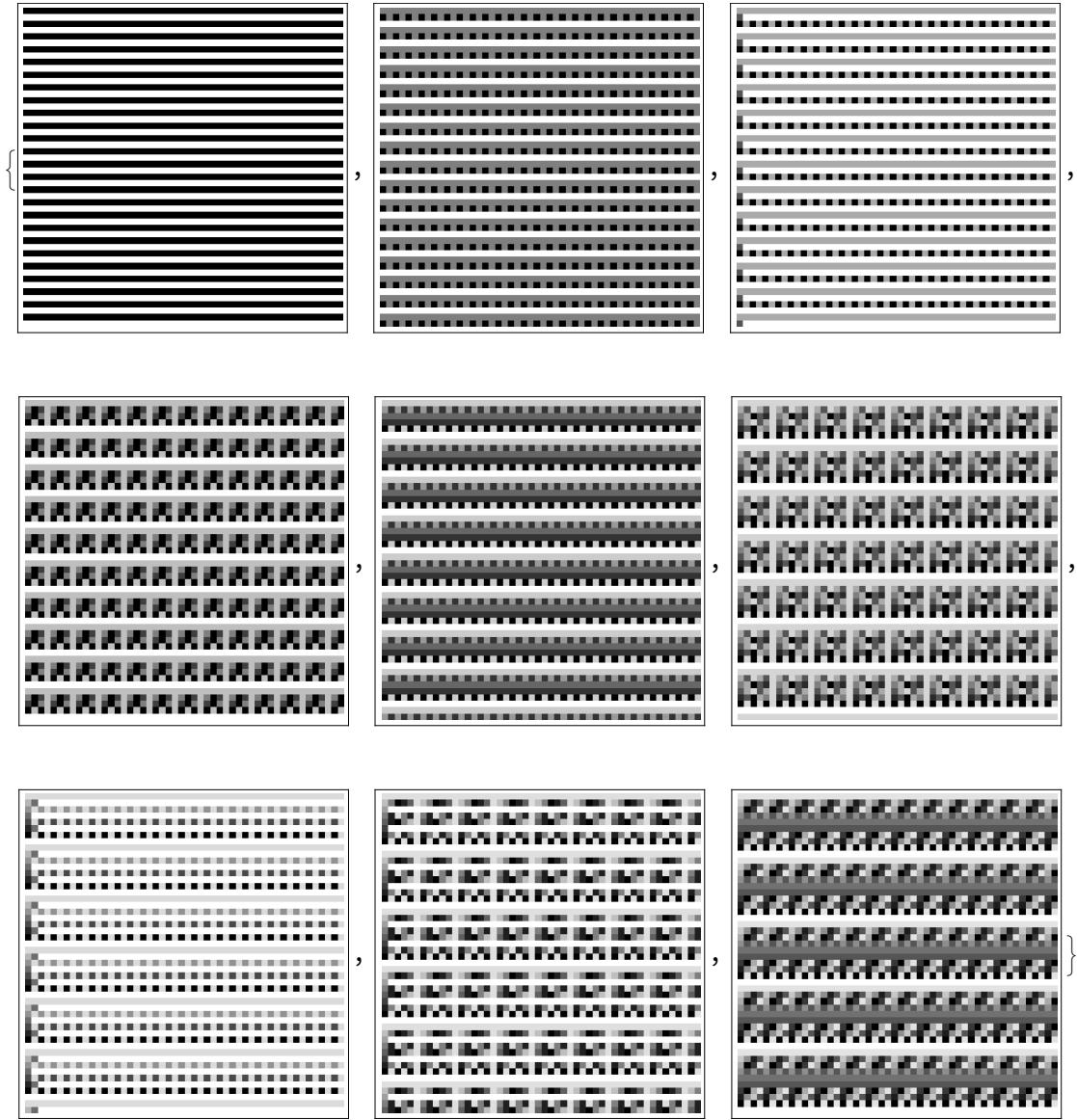
```
Out[192]=
```



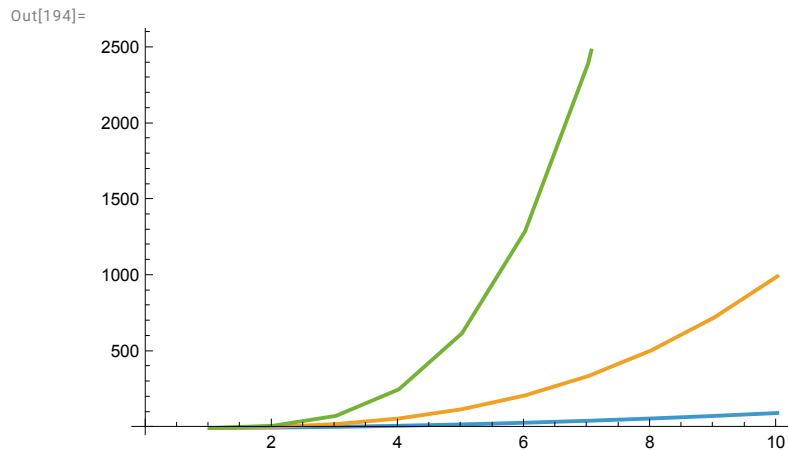
In[193]:=

```
Table[ArrayPlot[Table[Mod[x^y, n], {x, 50}, {y, 50}]], {n, 2, 10}]
```

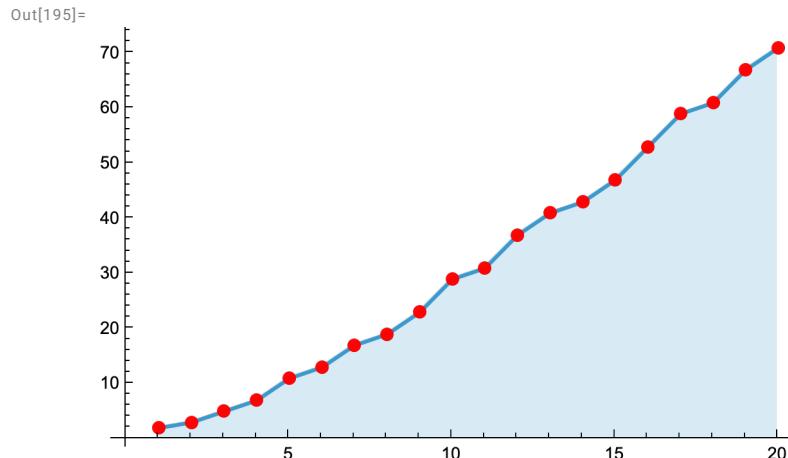
Out[193]=



```
In[194]:= ListLinePlot[Table[Table[n^x, {n, 10}], {x, 2, 4}]]
```



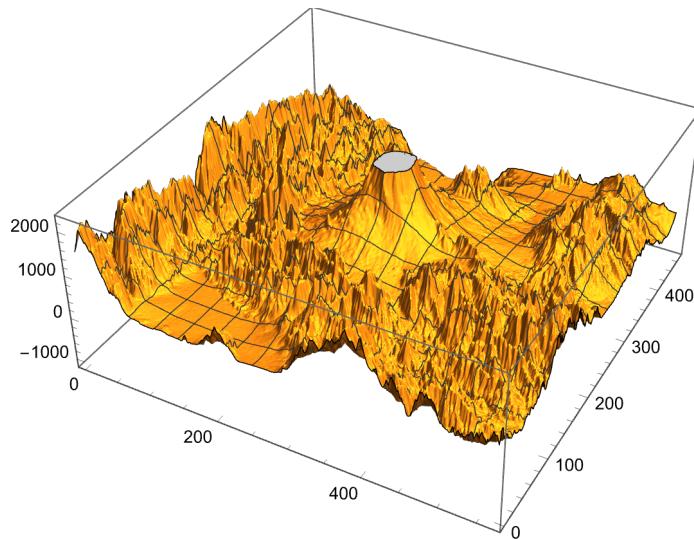
```
In[195]:= ListLinePlot[Table[Prime[n], {n, 20}], Filling -> Axis, Mesh -> All, MeshStyle -> Red]
```



In[196]:=

```
ListPlot3D[GeoElevationData[GeoDisk[Mount Fuji MOUNTAIN ..., 20 mi ...]]]
```

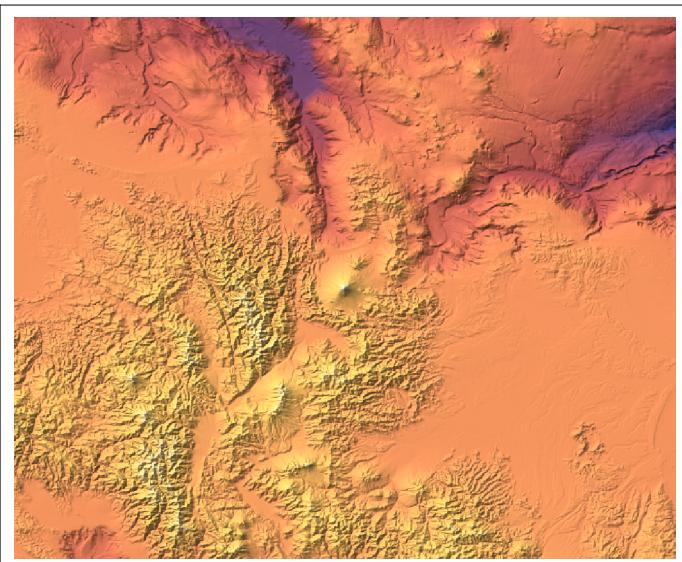
Out[196]=



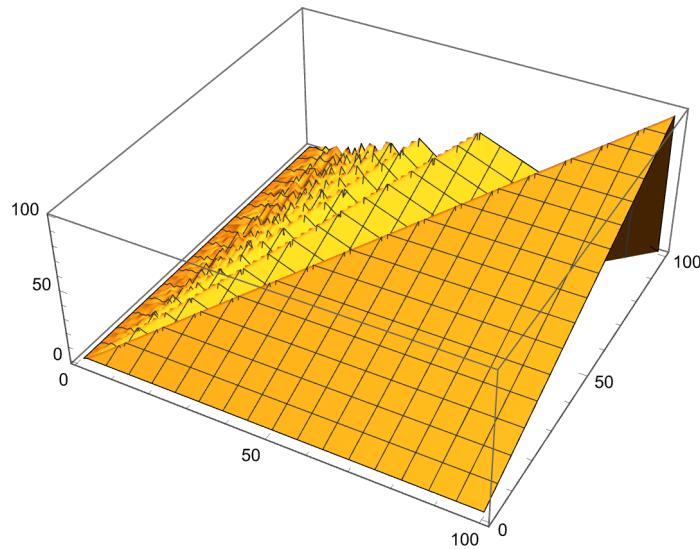
In[197]:=

```
ReliefPlot[GeoElevationData[GeoDisk[Mount Fuji MOUNTAIN ..., 100 mi ...]]]
```

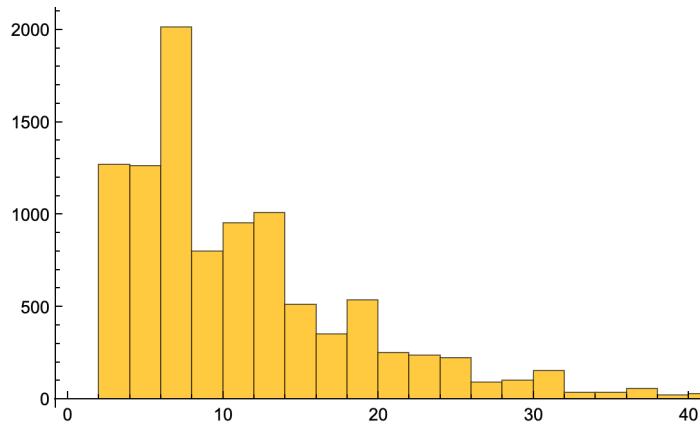
Out[197]=



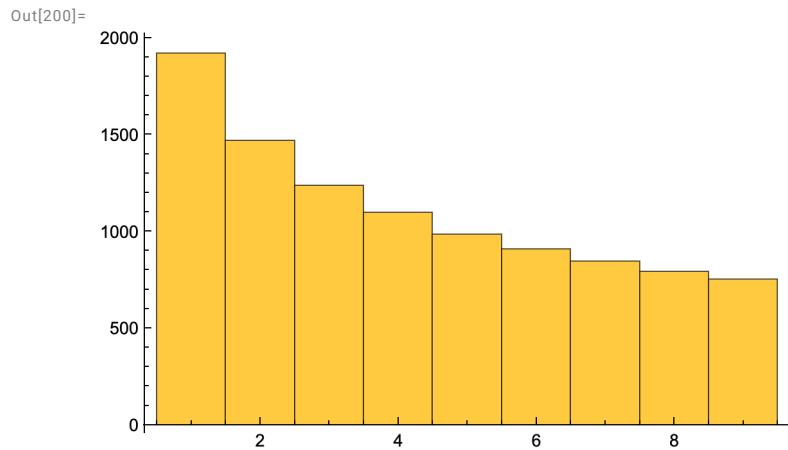
```
In[198]:= ListPlot3D[Table[Mod[i, j], {i, 100}, {j, 100}]]  
Out[198]=
```



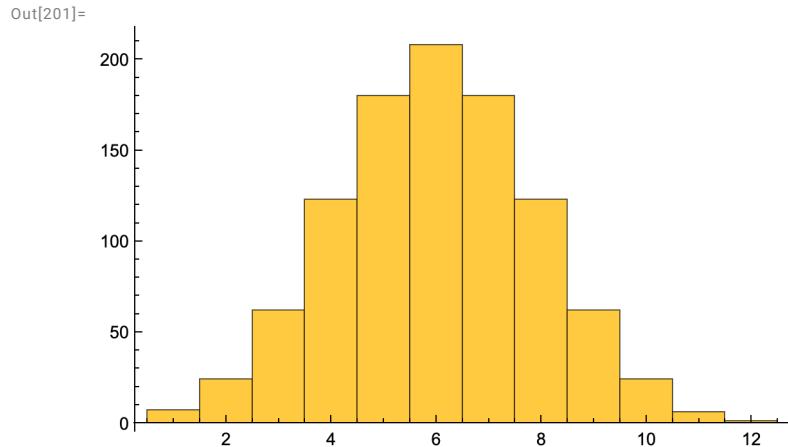
```
In[199]:= Histogram[Table[Prime[n + 1] - Prime[n], {n, 10 000}]]  
Out[199]=
```



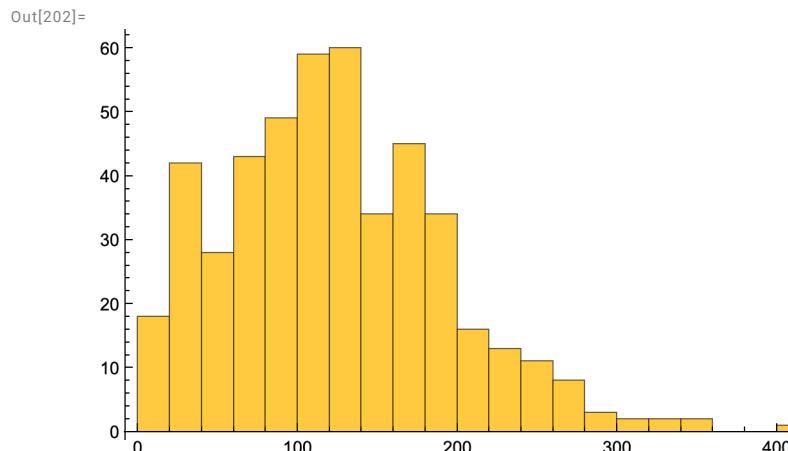
In[200]:= **Histogram[Table[First[IntegerDigits[n^2]], {n, 10 000}]]**



In[201]:= **Histogram[Table[StringLength[RomanNumeral[n]], {n, 1000}]]**



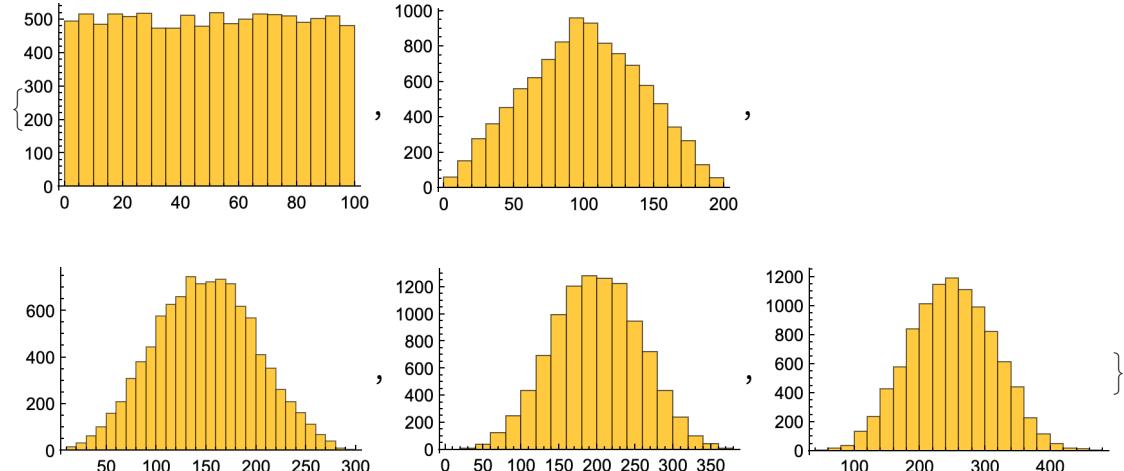
In[202]:= **Histogram[StringLength[TextSentences[WikipediaData["computers"]]]]**



In[203]:=

```
Table[Histogram[Table[Total[RandomReal[100, n]], 10000]], {n, 5}]
```

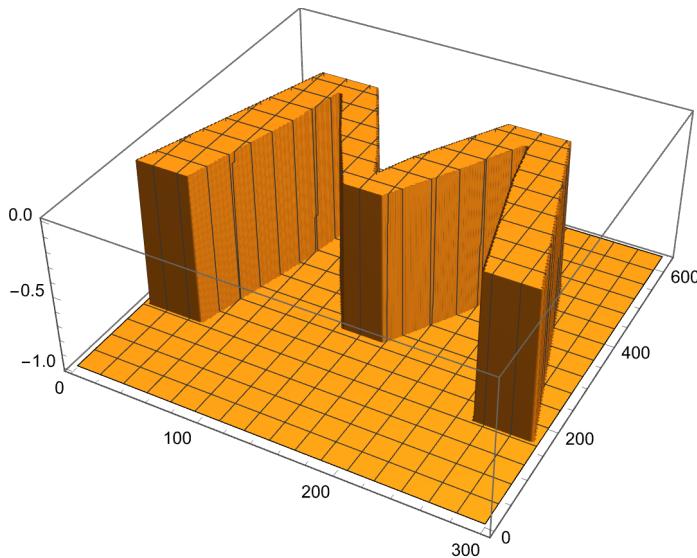
Out[203]=



In[204]:=

```
ListPlot3D[-ImageData[Binarize[Rasterize[Style["W", 200]]]]]
```

Out[204]=



In[205]:=

```
f /@ Range[5]
```

Out[205]=

```
{f[1], f[2], f[3], f[4], f[5]}
```

In[206]:=

```
f /@ g /@ Range[10]
```

Out[206]=

```
{f[g[1]], f[g[2]], f[g[3]], f[g[4]],
f[g[5]], f[g[6]], f[g[7]], f[g[8]], f[g[9]], f[g[10]]}
```

```
In[207]:= x // d // c // b // a
Out[207]= a[b[c[d[x]]]]
```

In[208]:= **Framed** /@ Alphabet[]

```
Out[208]= {a, b, c, d, e, f, g, h, i, j, k, l,  

m, n, o, p, q, r, s, t, u, v, w, x, y, z}
```

```
In[209]:= ColorNegate /@ EntityValue[planets PLANETS ... ✓, "Image"]
```

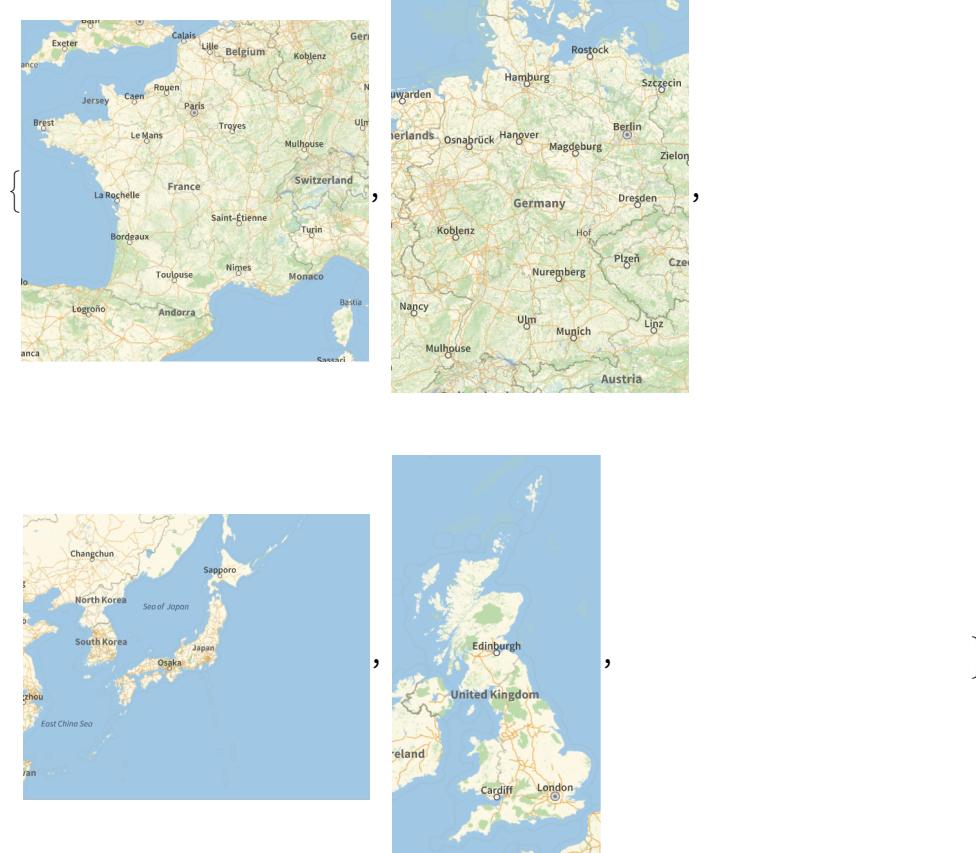


In[210]:=

GeoGraphics /@ EntityList[Group of 5 COUNTRIES]

GeoServer: Unable to download one or more vector tiles.

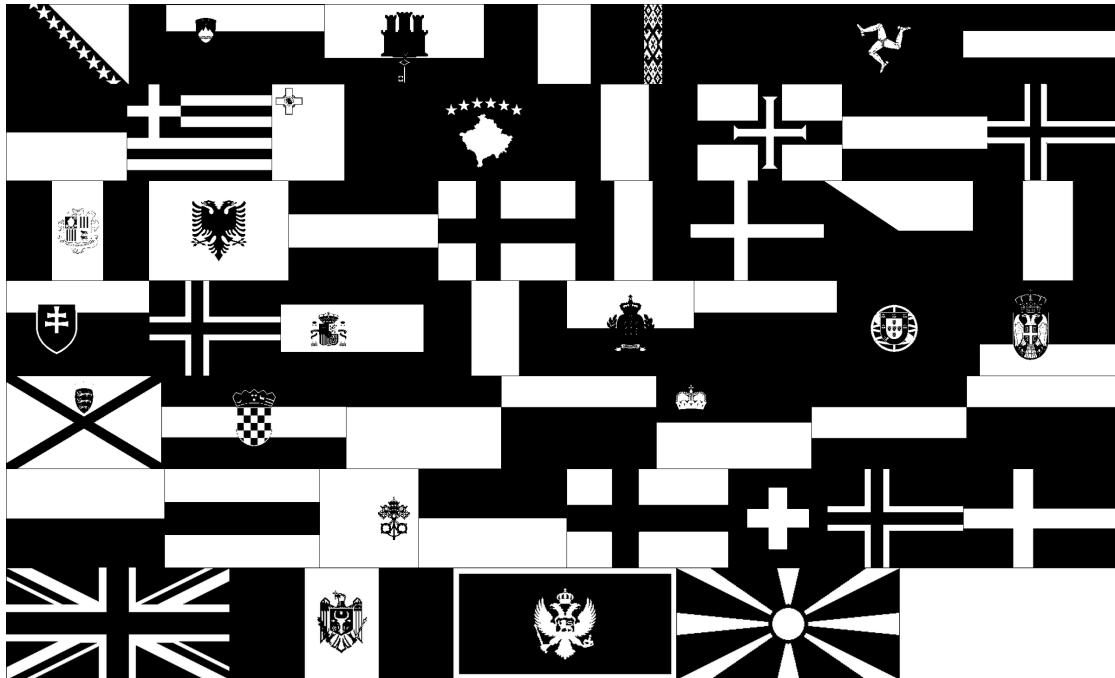
Out[210]=



In[211]:=

```
ImageCollage[Binarize /@ EntityValue[Europe GEOGRAPHIC REGION countries ... , "Flag"]]
```

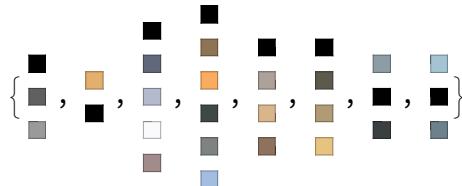
Out[211]=



In[212]:=

```
Column /@ DominantColors /@ EntityValue[planets PLANETS ... , "Image"]
```

Out[212]=



In[213]:=

```
Total[LetterNumber /@ Characters["wolfram"]]
```

Out[213]=

88