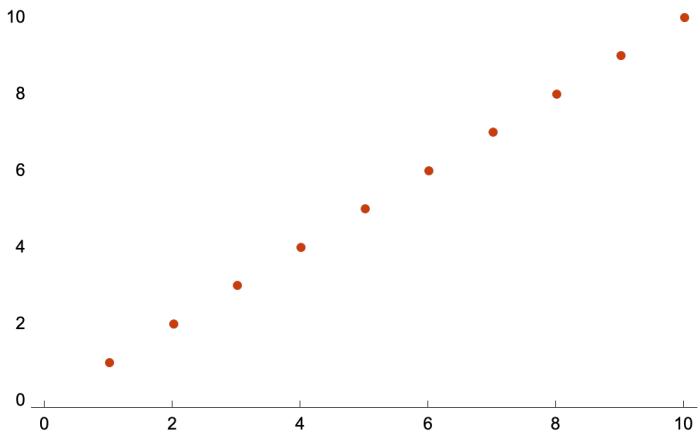


You have some unresolved error messages. See p. 10.  
See also p. 16. 9 1/2 /10.

## Chapter 20

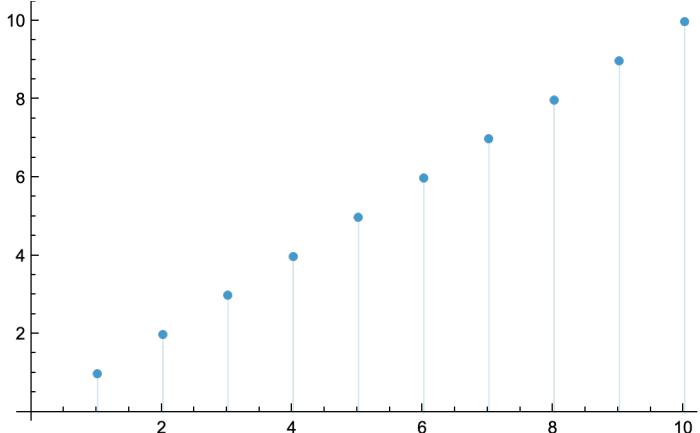
```
In[86]:= ListPlot[Range[10], PlotTheme -> "Web"]
```

```
Out[86]=
```



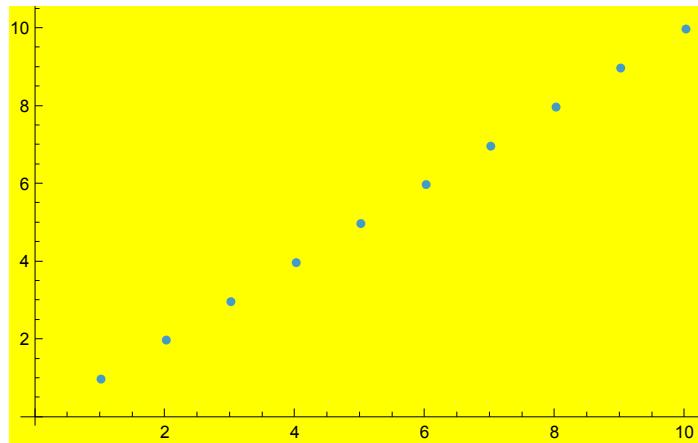
```
In[87]:= ListPlot[Range[10], Filling -> Axis]
```

```
Out[87]=
```



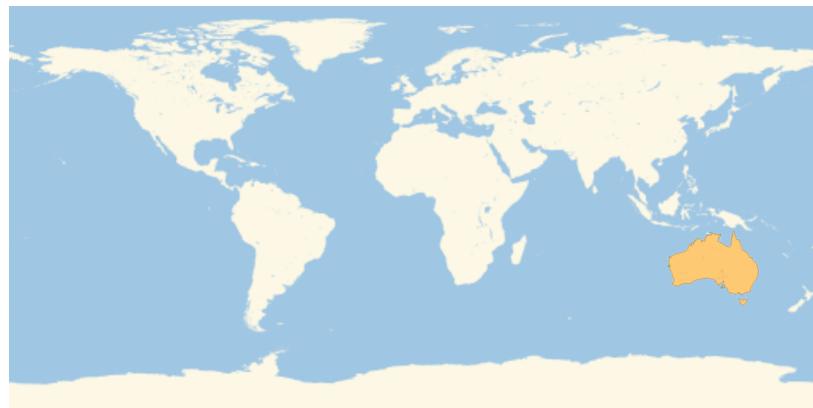
```
In[88]:= ListPlot[Range[10], Background -> Yellow]
```

```
Out[88]=
```



```
In[89]:= GeoListPlot[Entity["Country", "Australia"], GeoRange -> All]
```

```
Out[89]=
```



```
In[90]:= GeoListPlot[Entity["Country", "Madagascar"],  
GeoRange -> Entity["Ocean", "IndianOcean"]]
```

```
Out[90]=
```



```
In[91]:= GeoGraphics[EntityClass["Country", "SouthAmerica"],  
GeoBackground -> "ReliefMap"]
```

Out[91]=



```
In[92]:= GeoListPlot[{Entity["Country", "France"],  
Entity["Country", "Finland"], Entity["Country", "Greece"]},  
GeoLabels → Automatic]
```

Out[92]=



```
In[93]:= GeoListPlot[EntityClass["University", "TheIvyLeague"],  
GeoLabels → Automatic]
```

Out[93]=



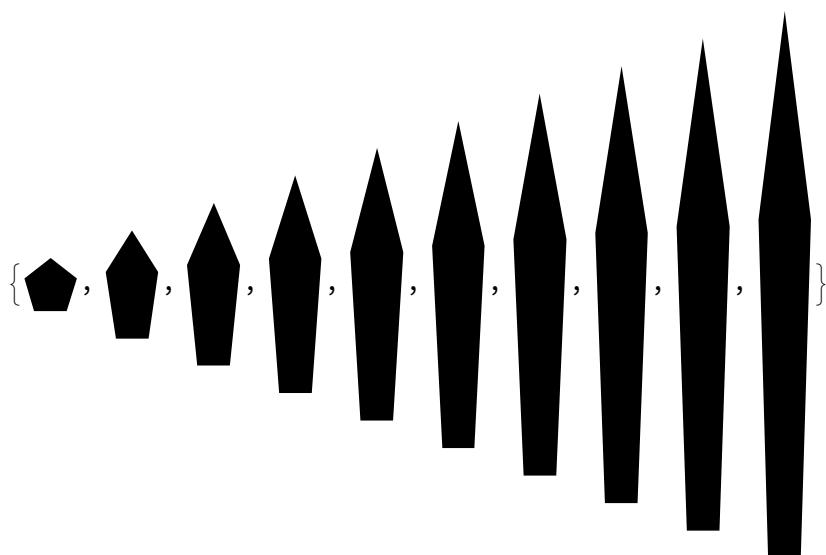
```
In[94]:= Grid[Table[Style[i j, RGBColor[1, 1, 1]], {i, 1, 12}, {j, 1, 12}],  
Background → Black]
```

Out[94]=

1	2	3	4	5	6	7	8	9	10	11	12
2	4	6	8	10	12	14	16	18	20	22	24
3	6	9	12	15	18	21	24	27	30	33	36
4	8	12	16	20	24	28	32	36	40	44	48
5	10	15	20	25	30	35	40	45	50	55	60
6	12	18	24	30	36	42	48	54	60	66	72
7	14	21	28	35	42	49	56	63	70	77	84
8	16	24	32	40	48	56	64	72	80	88	96
9	18	27	36	45	54	63	72	81	90	99	108
10	20	30	40	50	60	70	80	90	100	110	120
11	22	33	44	55	66	77	88	99	110	121	132
12	24	36	48	60	72	84	96	108	120	132	144

```
In[95]:= Table[Graphics[Disk[], ImageSize -> RandomInteger[40]], 100]
Out[95]= {
```

```
In[96]:= Table[Graphics[RegularPolygon[5], ImageSize -> 30,
AspectRatio -> n], {n, 1, 10}]
Out[96]= {
```

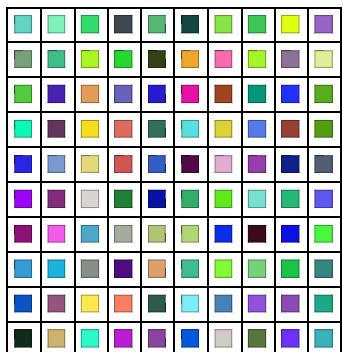


```
In[97]:= Manipulate[Graphics[Circle[], ImageSize -> n], {n, 5, 500}]
Out[97]= 
```



```
In[98]:= Grid[Table[RandomColor[], 10, 10], Frame -> All]
```

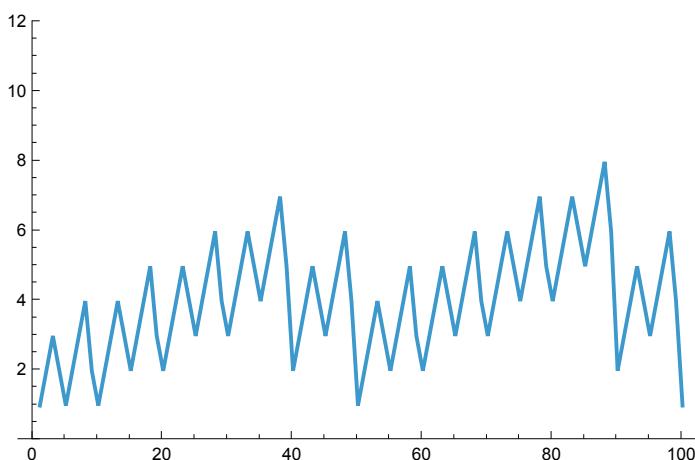
```
Out[98]=
```



```
In[99]:= ListLinePlot[Table[Length[Characters[RomanNumeral[n]]], {n, 1, 100}], PlotRange ->
```

```
Max[Table[Length[Characters[RomanNumeral[n]]], {n, 1000}]]]
```

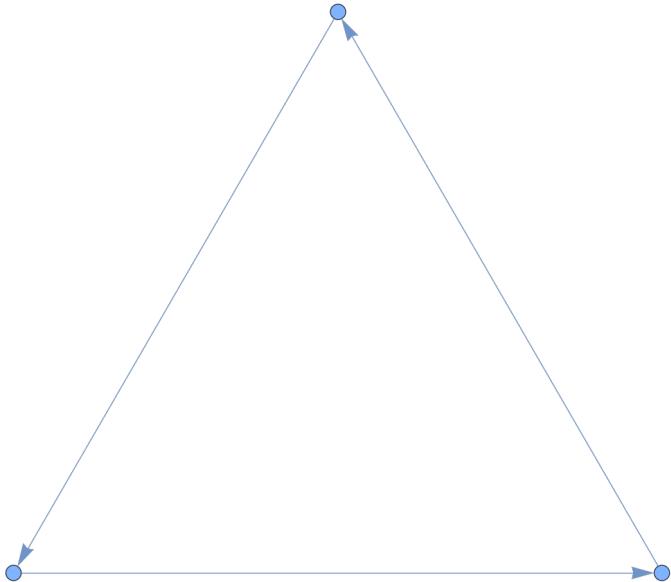
```
Out[99]=
```



# Chapter 21

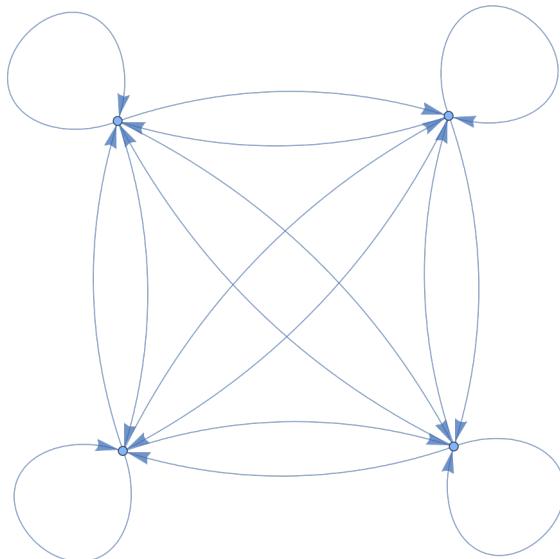
```
In[100]:= Graph[{1 → 2, 2 → 3, 3 → 1}]
```

```
Out[100]=
```



```
In[101]:= Graph[Flatten[Table[i → j, {i, 4}, {j, 4}]]]
```

```
Out[101]=
```

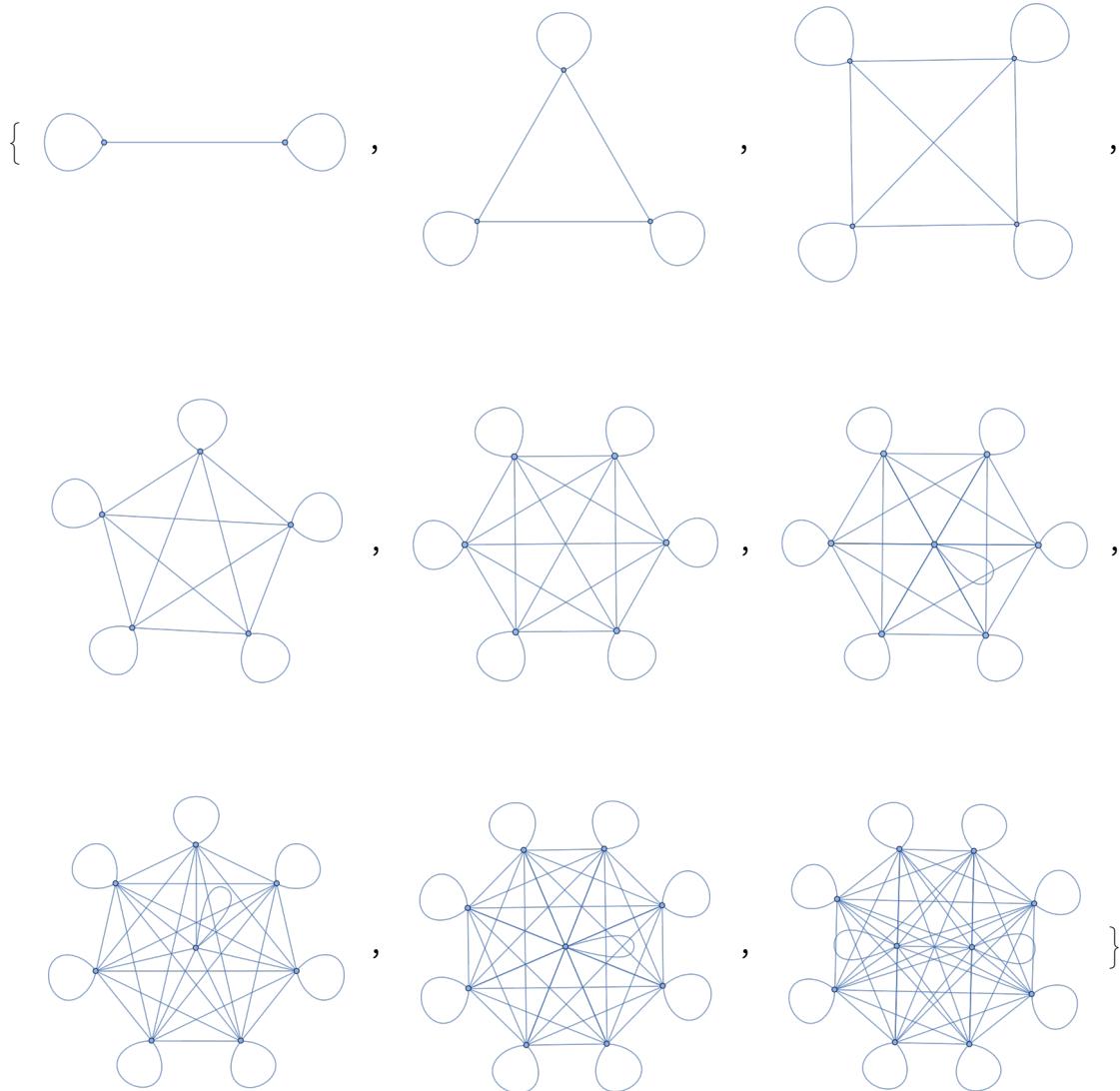


My interpretation of this one was different.

In[102]:=

```
Table[UndirectedGraph[Flatten[Table[i → j, {i, n}, {j, n}]]], {n, 2, 10}]
```

Out[102]=



In[103]:=

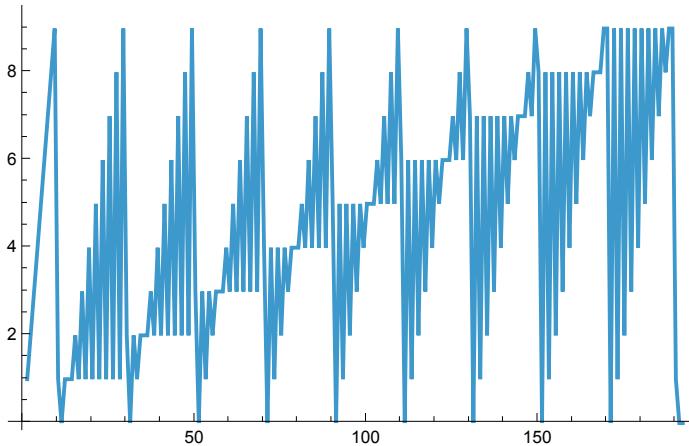
```
Flatten[Table[{1, 2}, 3]]
```

Out[103]=

```
{1, 2, 1, 2, 1, 2}
```

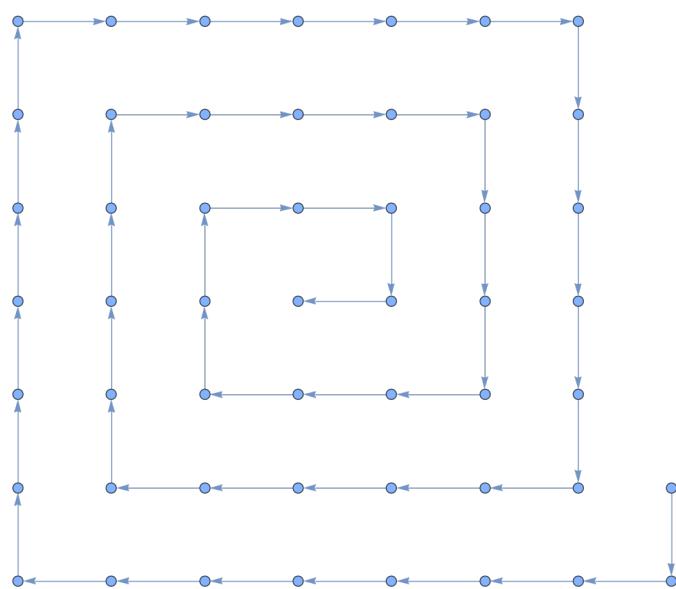
In[104]:= `ListLinePlot[Flatten[IntegerDigits[Range[100]]]]`

Out[104]=



In[105]:= `Graph[Flatten[Table[i \rightarrow i + 1, {i, 50}]]]`

Out[105]=



This is an off-by-one error.  
You have a 51st node.

In[106]:= `Table[i \rightarrow Max[i, j], j \rightarrow Max[i, j], {i, 4}, {j, 4}]`

••• **Table**: Non-list iterator `j \rightarrow Max[i, j]` at position 2 does not evaluate to a real numeric value.

Out[106]= `Table[i \rightarrow Max[i, j], j \rightarrow Max[i, j], {i, 4}, {j, 4}]`

Looks like you have some bugs  
on 21.7 and 21.8.

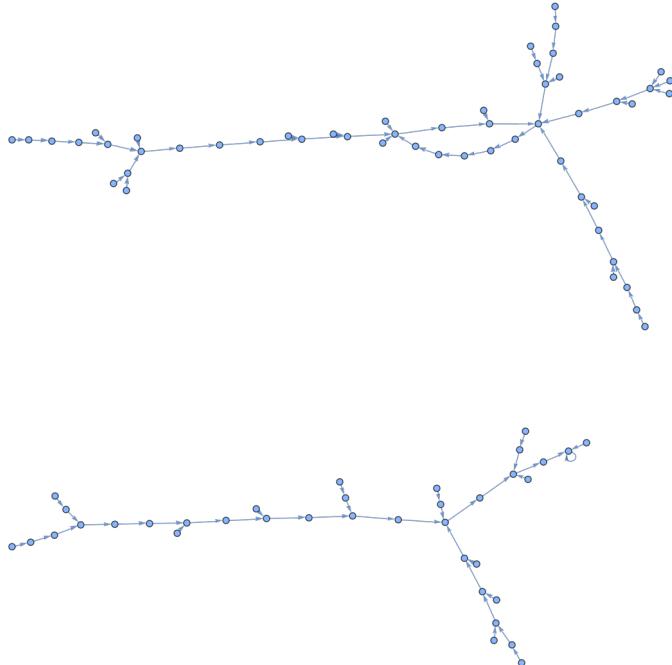
In[107]:= `Graph[Flatten[Table[i \rightarrow (j - i), j \rightarrow (j - i), {i, 1, 5}, {j, 1, 5}]]]`

••• **Table**: Non-list iterator `j \rightarrow j - i` at position 2 does not evaluate to a real numeric value.

Out[107]= `Graph[Table[i \rightarrow j - i, j \rightarrow j - i, {i, 1, 5}, {j, 1, 5}]]`

```
In[108]:= Graph[Table[i → RandomInteger[100], {i, 100}]]
```

```
Out[108]=
```



```
In[109]:=
```

```
Grid[Table[FindShortestPath[
  Graph[{1 → 2, 2 → 3, 3 → 4, 4 → 1, 3 → 1, 2 → 2}], a, b], {a, 4}, {b, 4}]]
```

```
Out[109]=
```

{1}	{1, 2}	{1, 2, 3}	{1, 2, 3, 4}
{2, 3, 1}	{2}	{2, 3}	{2, 3, 4}
{3, 1}	{3, 1, 2}	{3}	{3, 4}
{4, 1}	{4, 1, 2}	{4, 1, 2, 3}	{4}

## Chapter 22

```
In[110]:=
```

```
LanguageIdentify["ajatella"]
```

```
Out[110]=
```

Finnish

```
ImageIdentify[tiger SPECIES SPECIFICATION   ["Image"]]
```

```
Out[111]=
```

tiger

```

Table[ImageIdentify[Blur[tiger SPECIES SPECIFICATION ... ✓ ["Image"], n]], {n, 5}]

Out[112]=
{tiger, tiger, tiger, tiger, swift fox}

In[113]:= Classify["Sentiment", "I'm so happy to be here"]
Out[113]=
Positive

In[114]:= Nearest[WordList[], "happy", 10]
Out[114]=
{happy, haply, harpy, nappy, sappy, apply, campy, choppy, guppy, hairy}

In[115]:= Nearest[Table[RandomInteger[1000], 20], 1000, 3]
Out[115]=
{998, 952, 951}

In[116]:= Nearest[Table[RandomColor[], 10], RGBColor[1, 0, 0], 5]
Out[116]=
{█, █, █, █, █}

In[117]:= Nearest[Table[n^2, {n, 100}], 2000]
Out[117]=
{2025}

Nearest[EntityValue[Europe GEOGRAPHIC REGION [countries], "Flag"],
Brazil COUNTRY ... ✓ ["Flag"], 3]

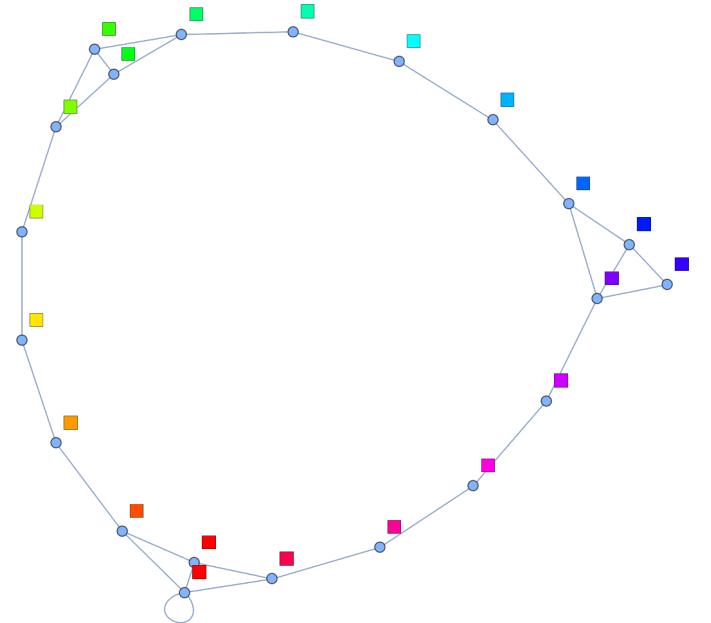
Out[118]=
{, , }

```

In[119]:=

```
NearestNeighborGraph[Table[Hue[h], {h, 0, 1, .05}], 2, VertexLabels → All]
```

Out[119]=



In[120]:=

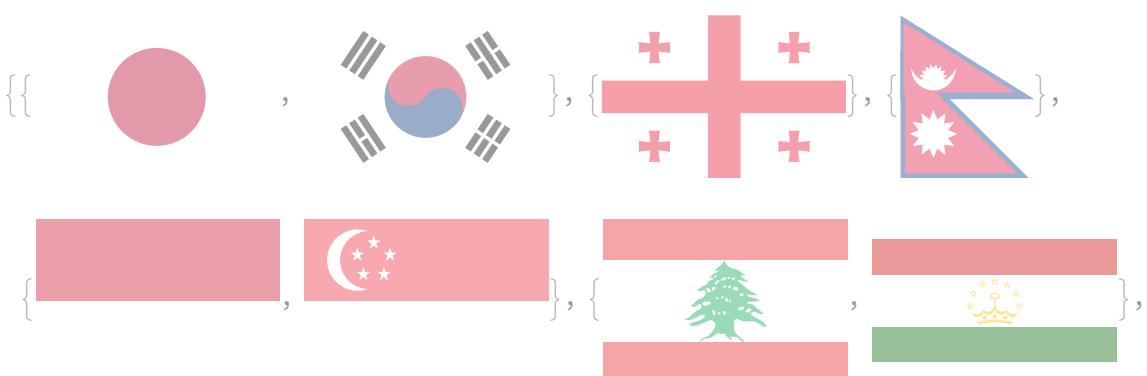
```
NearestNeighborGraph[Table[RandomInteger[100], 100], 2, VertexLabels → All]
```

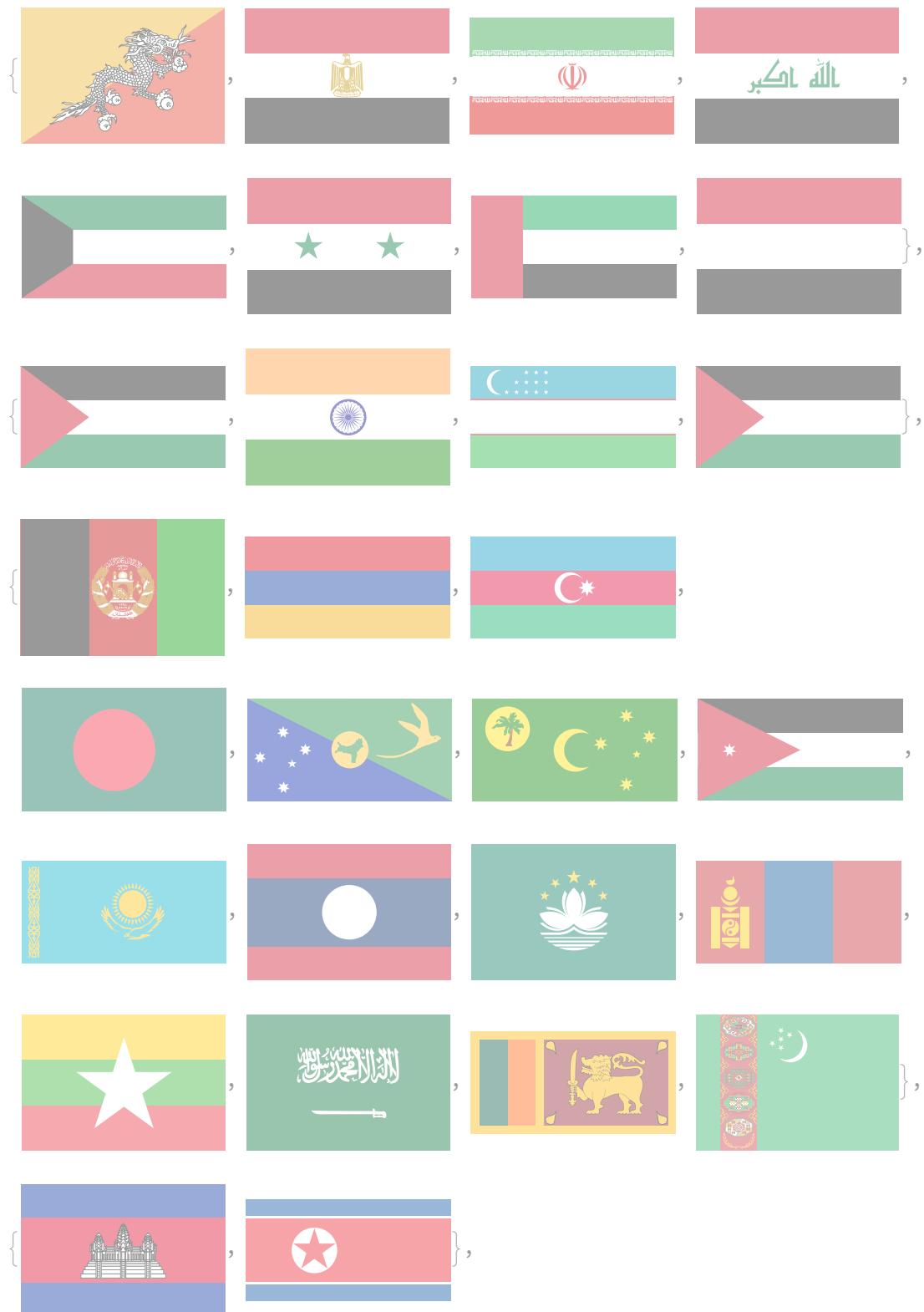
Out[120]=

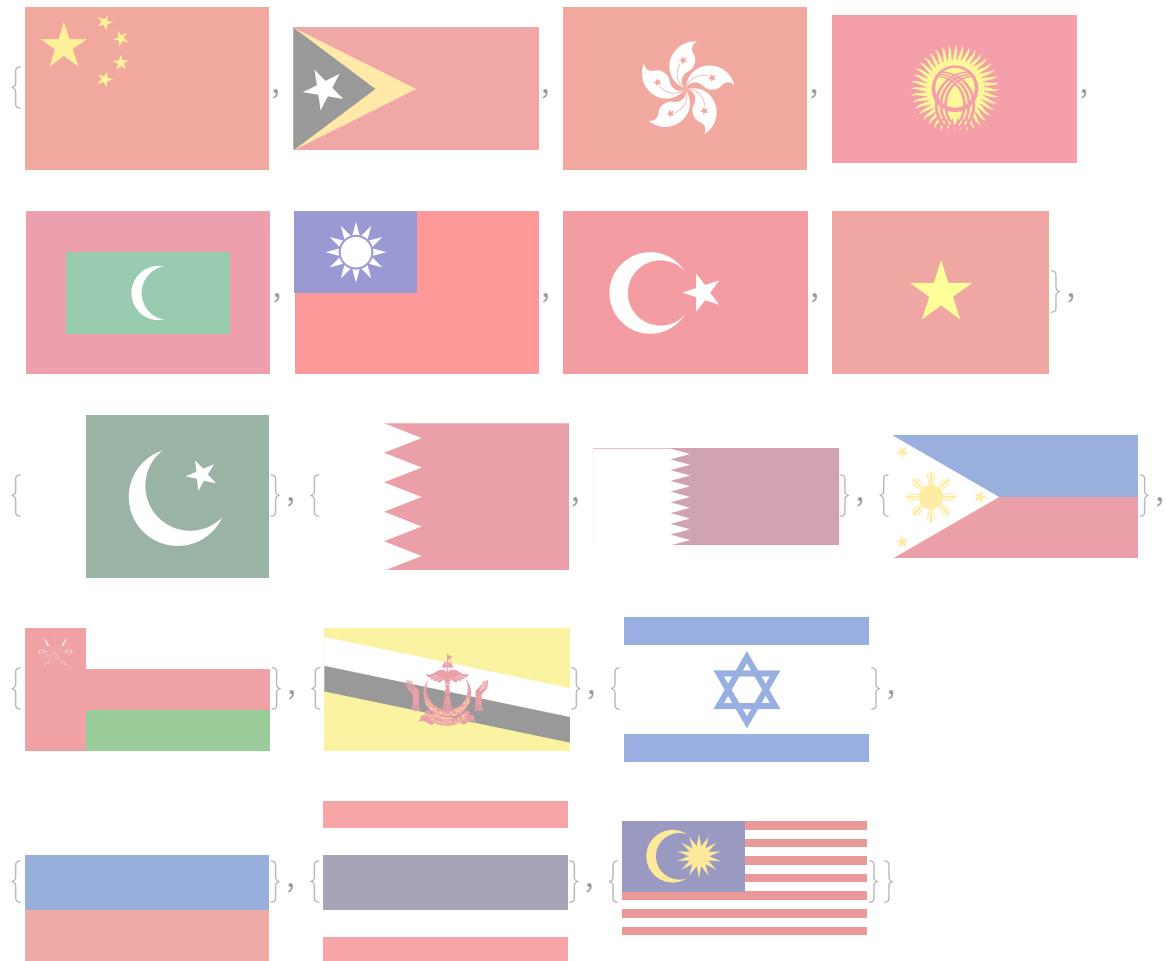


```
FindClusters[EntityValue[ , "Flag"]]
```

Out[121]=



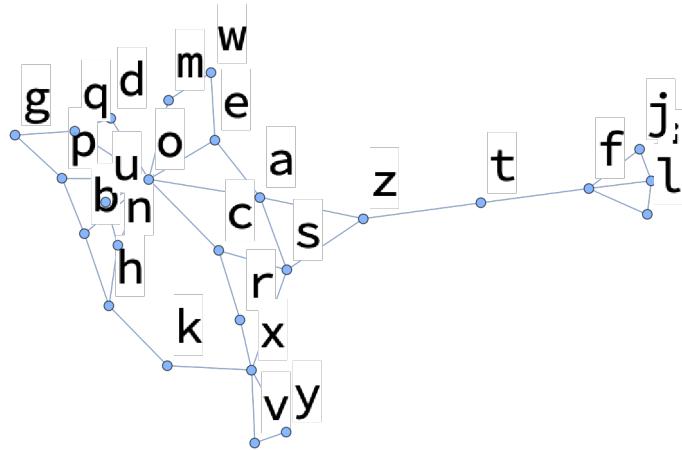




In[122]:=

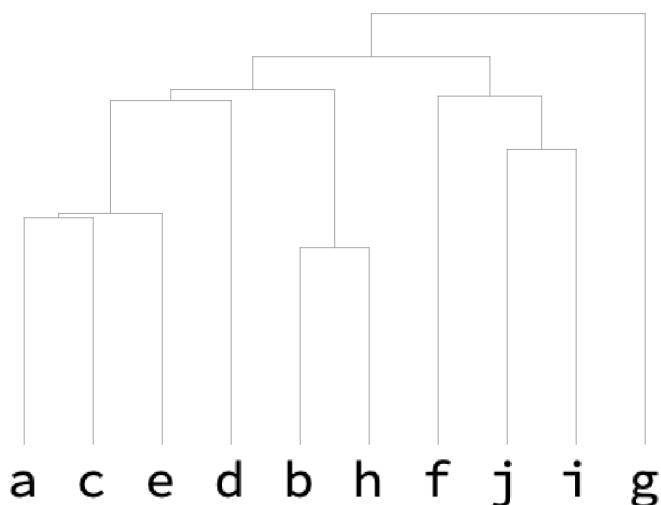
```
NearestNeighborGraph[
Table[Rasterize[Style[FromLetterNumber[n], 20]], {n, 26}], 2, VertexLabels -> All]
```

Out[122]=



```
In[123]:= Table[TextRecognize[EdgeDetect[Rasterize[Style["Programming ", n]]]], {n, 1, 10}]
Out[123]= {, , , , Programming, Programming, Programming, Programming, Programming}
```

```
In[124]:= Dendrogram[Table[Rasterize[FromLetterNumber[n]], {n, 10}]]
Out[124]=
```



```
In[125]:= FeatureSpacePlot[Capitalize[Alphabet[]]]
Out[125]=
```

