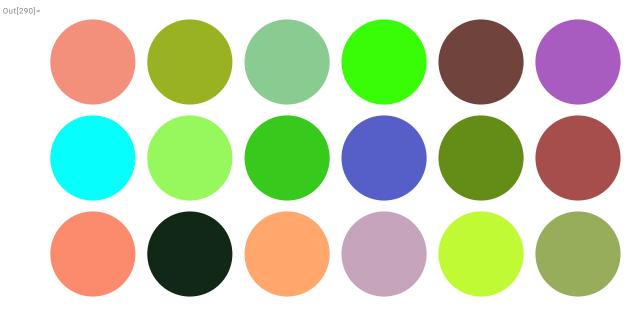
Jeremy — PS 15 — 2025-04-01

```
In[287]:=
      Table[If[EvenQ[n], Style[n, Background → Yellow],
        Style[n, Background → LightGray]], {n, 100}]
Out[287]=
      \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22,
       23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42,
       43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62,
       63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81,
       82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100}
In[288]:=
      Table [If [PrimeQ[n], Framed[n], n], \{n, 100\}]
Out[288]=
       \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22,
        23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42,
       43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61,
       62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80,
       81, 82, |83|, 84, 85, 86, 87, 88, |89|, 90, 91, 92, 93, 94, 95, 96, |97|, 98, 99, 100
In[289]:=
      Table[If[PrimeQ[n], Labeled[Framed[n], Style[Mod[n, 4], LightGray]], n], {n, 100}]
Out[289]=
      \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17,
       18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33,
       34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50,
       51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67,
       68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83,
       84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
```

In[290]:=
 GraphicsGrid[Table[Graphics[{RandomColor[], Disk[]}], 3, 6]]



In[291]:=

PieChart [Labeled[#["GDP"], #] & /@ EntityList [Group of 5 COUNTRIES •••]]

Out[291]=

Germany

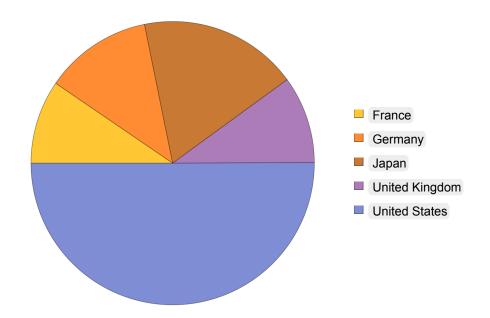
France

United Kingdom

United States

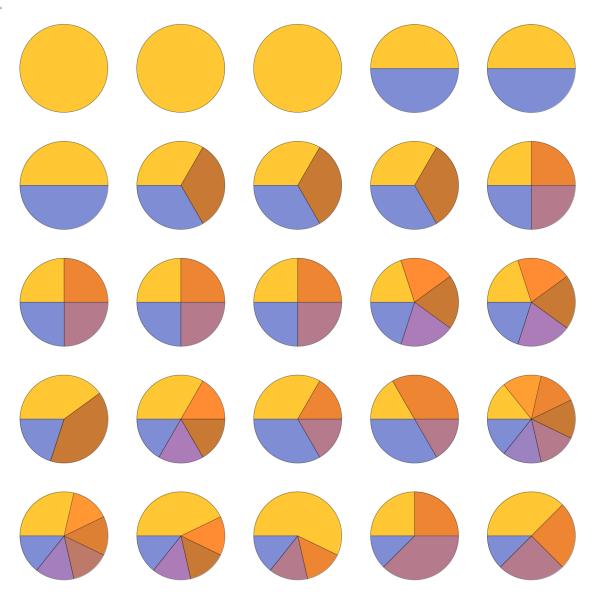
In[292]:=

Out[292]=



GraphicsGrid[Partition[Table[PieChart[Counts[IntegerDigits[2^n]]], {n, 25}], 5]]

Out[293]=



In[294]:=

GraphicsRow WordCloud [WikipediaData[#]] & /@ EntityList [IIII Group of 5 COUNTRIES III GROUP OF

Out[294]=





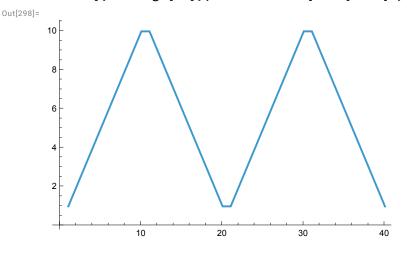






```
In[295]:=
       Module[\{x = Range[10]\}, x = x^2 + x]
Out[295]=
       {2, 6, 12, 20, 30, 42, 56, 72, 90, 110}
In[296]:=
       Module[{x = Table[RandomInteger[100], 10]}, Column[{x, Sort[x], Max[x], Total[x]}]]
Out[296]=
       {73, 9, 77, 29, 39, 94, 26, 98, 8, 51}
       \{8, 9, 26, 29, 39, 51, 73, 77, 94, 98\}
       98
       504
In[297]:=
                                                   [image] ... ],
       Module [{giraffe = giraffe species specification}
        ImageCollage[{giraffe, Blur[giraffe], EdgeDetect[giraffe], ColorNegate[giraffe]}]
Out[297]=
```

In[298]:= Module[{r = Range[10]}, ListLinePlot[Nest[Join[#, Reverse[#]] &, r, 2]]]



```
In[299]:=
       Module[\{x = Range[10]\}, \{x + 1, x - 1, Reverse[x]\}]
Out[299]=
       \{\{2, 3, 4, 5, 6, 7, 8, 9, 10, 11\},\
        \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9\}, \{10, 9, 8, 7, 6, 5, 4, 3, 2, 1\}\}
In[300]:=
       NestList[Mod[17#+2, 11] &, 10, 20]
Out[300]=
       \{10, 7, 0, 2, 3, 9, 1, 8, 6, 5, 10, 7, 0, 2, 3, 9, 1, 8, 6, 5, 10\}
In[301]:=
       Module[{x = {"a", "e", "i", "o", "u"}}, y = Complement[Alphabet[], x];
        Table[StringJoin[{RandomChoice[y], RandomChoice[x],
            RandomChoice[y], RandomChoice[x], RandomChoice[y]}], 10]]
Out[301]=
       {xixov, behan, bayuv, jumap, tejis, kixux, rehog, vinah, hipad, mebib}
In[302]:=
```