

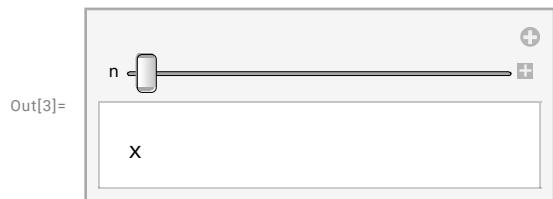
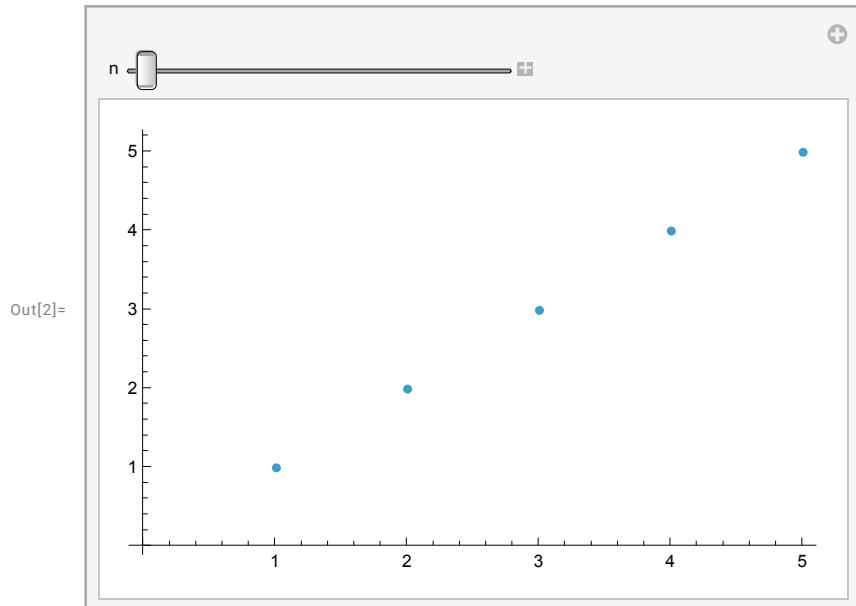
Walker – PS 3 – 2025-01-24

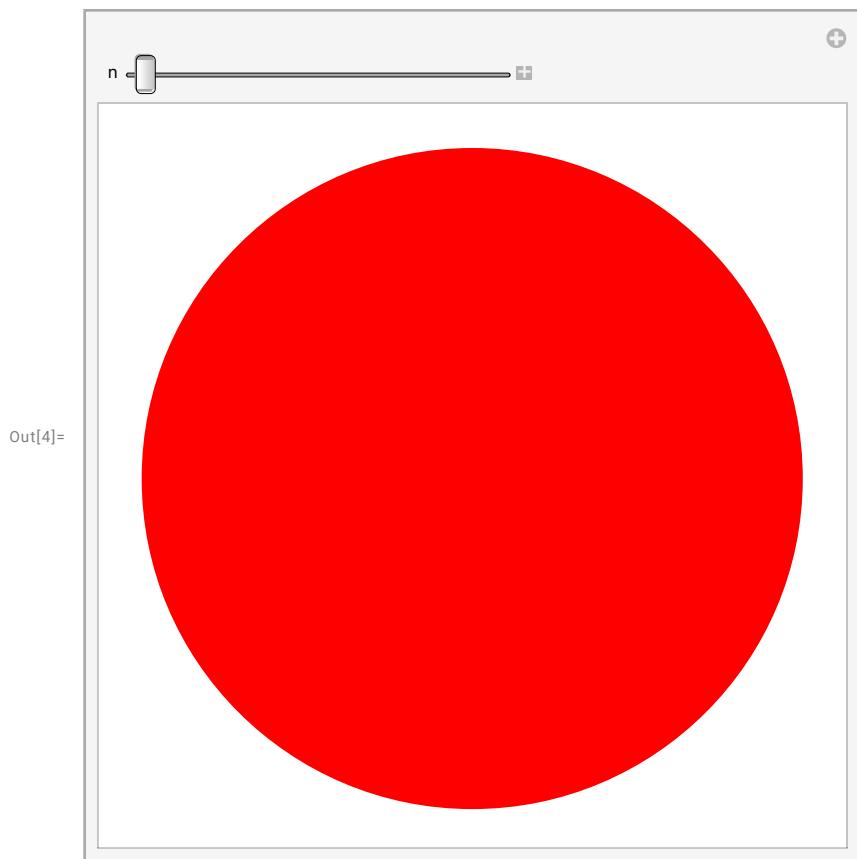
Section 9

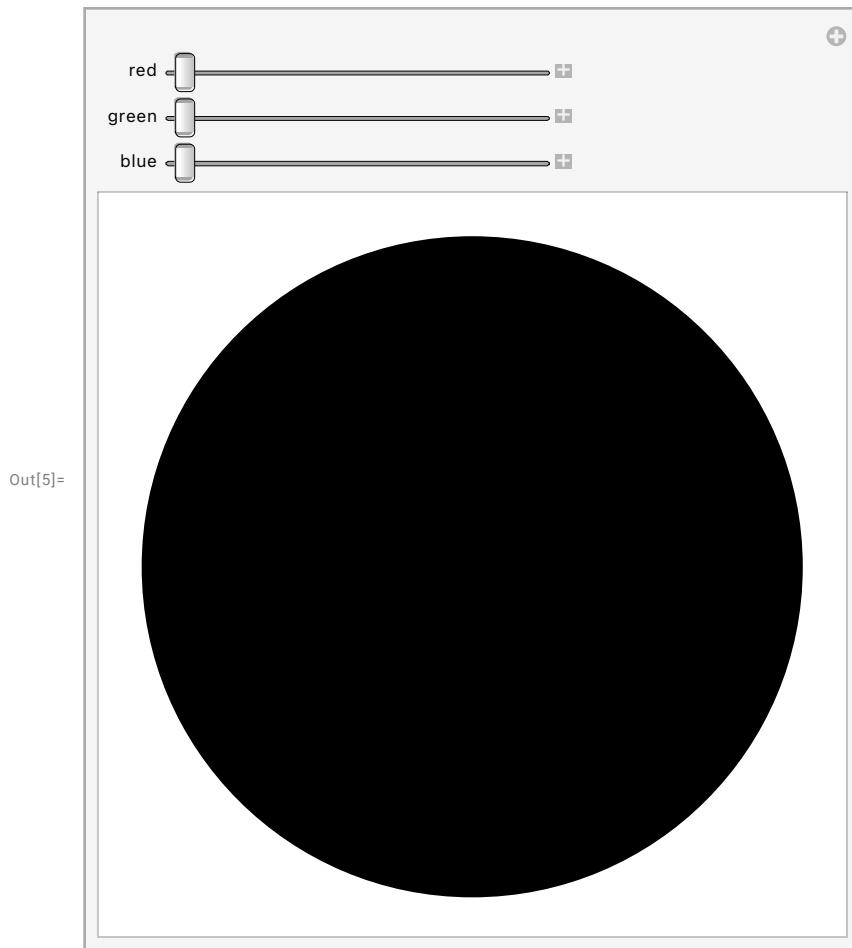
```
In[1]:= Manipulate[Range[n], {n, 0, 100}]
Manipulate[ListPlot[Range[n]], {n, 5, 50}]
Manipulate[Column[Table[x, n]], {n, 1, 10}]
Manipulate[Graphics[Style[Disk[], Hue[n]]], {n, 0, 1}]
Manipulate[Graphics[Style[Disk[], RGBColor[red, green, blue]]],
 {red, 0, 1}, {green, 0, 1}, {blue, 0, 1}]
Manipulate[IntegerDigits[n], {n, 1000, 9999}]
Manipulate[Table[Hue[c], {c, 0, 1, 1/n}], {n, 5, 50}]
Manipulate[Table[Graphics[Style[RegularPolygon[6], Hue[h]]], n],
 {n, 1, 10, 1}, {h, 0, 1}]
Manipulate[Graphics[Style[RegularPolygon[s], color]],
 {s, 5, 20, 1}, {color, {Red, Yellow, Blue}}]
Manipulate[PieChart[Table[1, n]], {n, 1, 10, 1}]
Manipulate[BarChart[IntegerDigits[n]], {n, 100, 999, 1}]
Manipulate[Table[RandomColor[], n], {n, 1, 50, 1}]
Manipulate[Column[Table[b^e, {e, 1, m, 1}]], {b, 1, 25, 1}, {m, 1, 10, 1}]
Manipulate[NumberLinePlot[Range[10]^n], {n, 0, 5, 1}]
Manipulate[Graphics3D[Style[Sphere[], Hue[color]]], {color, 0, 1/3}]
```

Out[1]=







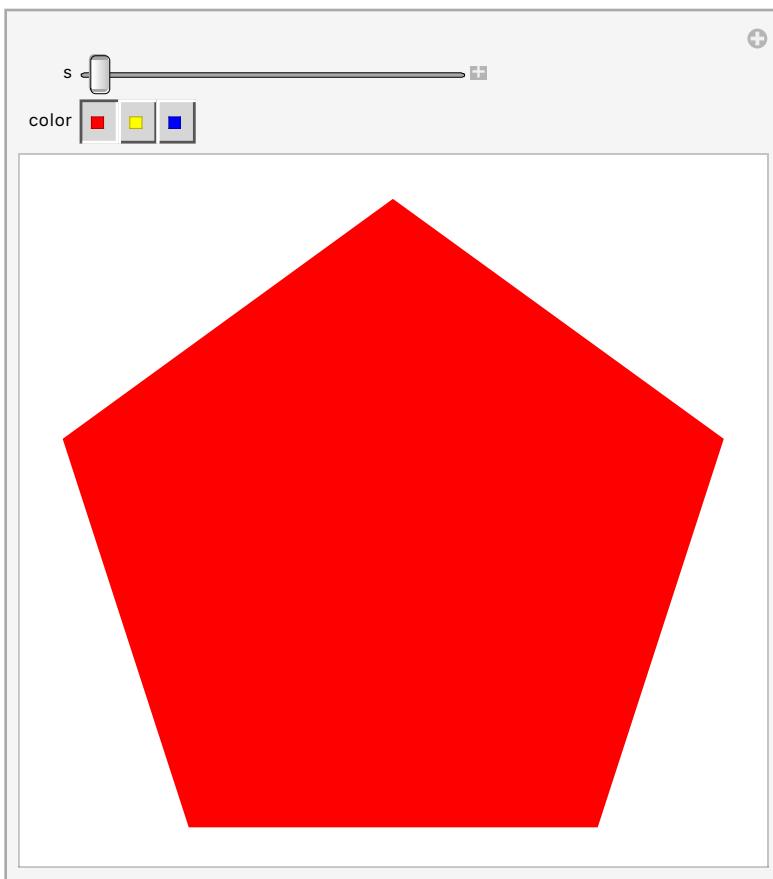
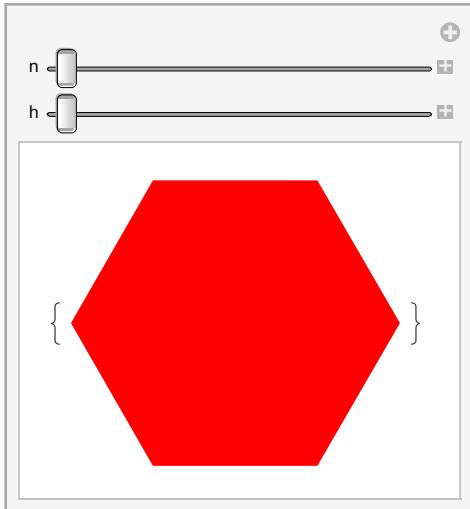


Out[6]=

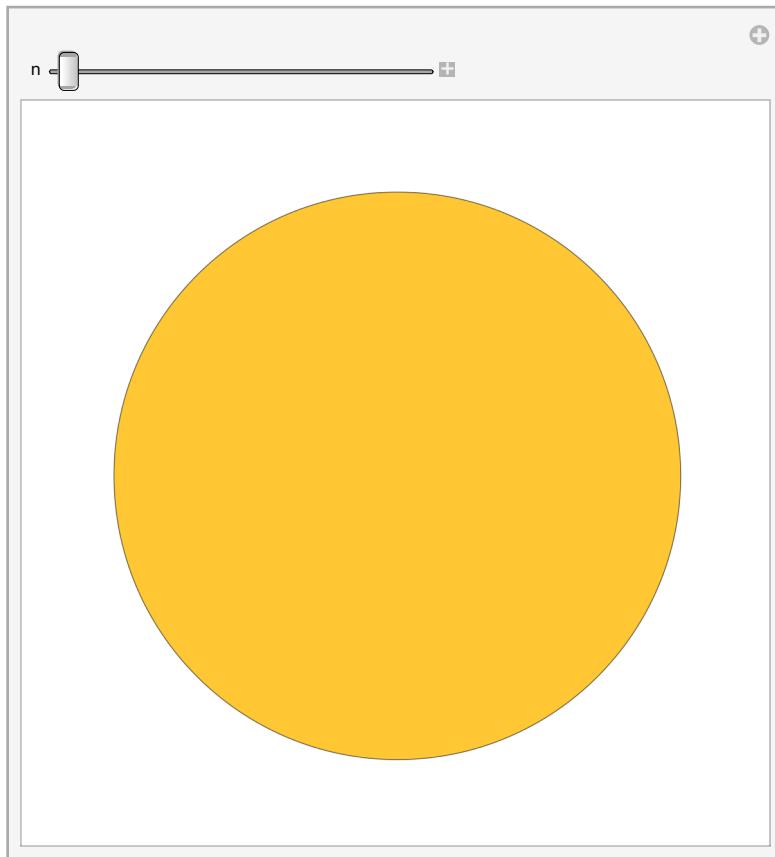
A small black rectangular box contains the list `{1, 0, 0, 0}`. The box has a thin gray border. Above the box, there is a small circular icon with a plus sign inside. To the left of the box, the text `n` is followed by a small slider icon.

Out[7]=

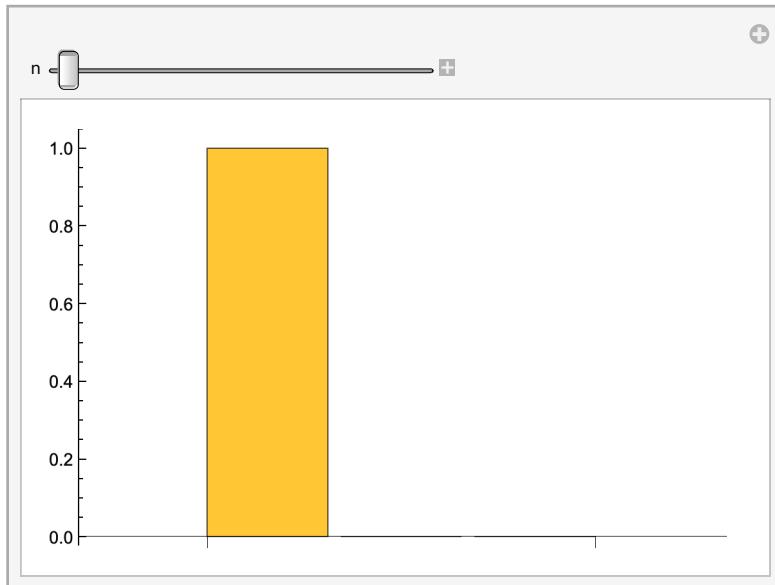
A small black rectangular box contains a list of colored squares: red, yellow, green, blue, magenta, and red again. The box has a thin gray border. Above the box, there is a small circular icon with a plus sign inside. To the left of the box, the text `n` is followed by a small slider icon.



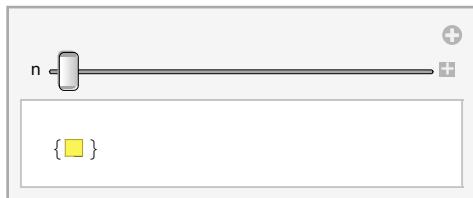
Out[10]=



Out[11]=



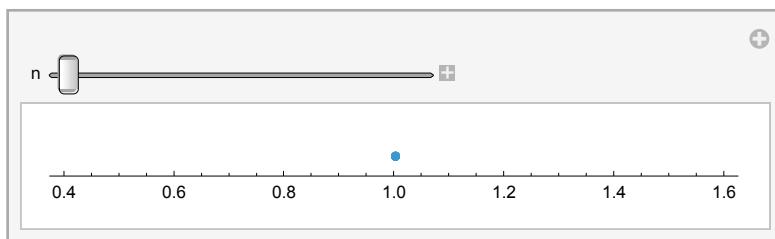
Out[12]=



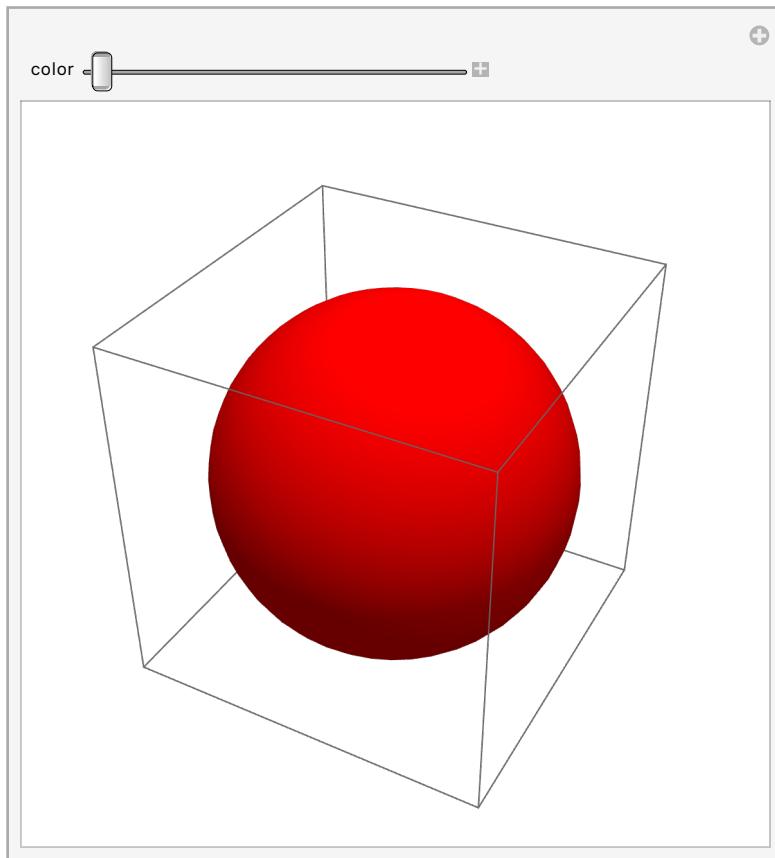
Out[13]=



Out[14]=



Out[15]=



Section 10

```
In[16]:= ColorNegate[EdgeDetect[]]
Manipulate[Blur[, n], {n, 0, 20}]
Table[EdgeDetect[Blur[, n]], {n, 0, 20}]
ImageCollage[{, Blur[, EdgeDetect[, Binarize[]]}]
ImageAdd[, Binarize[]]
Manipulate[EdgeDetect[Blur[, n]], {n, 0, 20}]
EdgeDetect[Graphics3D[Sphere[]]]
Manipulate[Blur[Graphics[Style[RegularPolygon[5], Purple]], n], {n, 0, 20}]
ImageCollage[Table[Graphics[Style[Disk[], RandomColor[]]], 9]]
ImageCollage[Table[Graphics3D[Style[Sphere[], Hue[n]]], {n, 0, 1, 0.2}]]
Table[Blur[Graphics[Disk[]], n], {n, 0, 30, 5}]
ImageAdd[, Graphics[Disk[]]]
ImageAdd[, Graphics[Style[RegularPolygon[8], Red]]]
ImageAdd[, ColorNegate[EdgeDetect[]]]
```

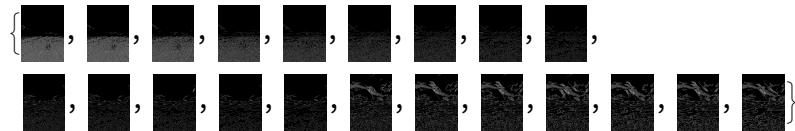
Out[16]=



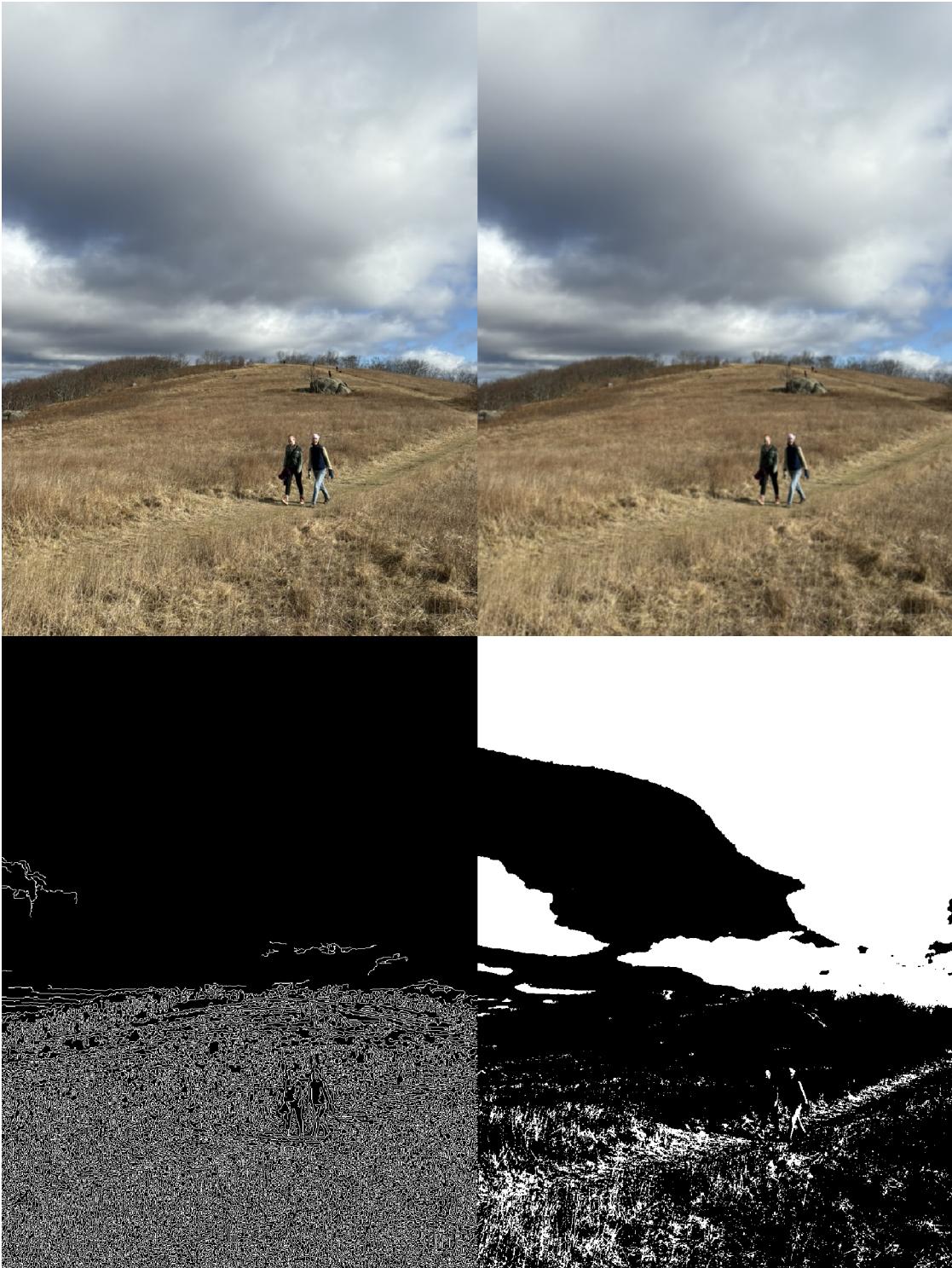
Out[17]=



Out[18]=



Out[19]=



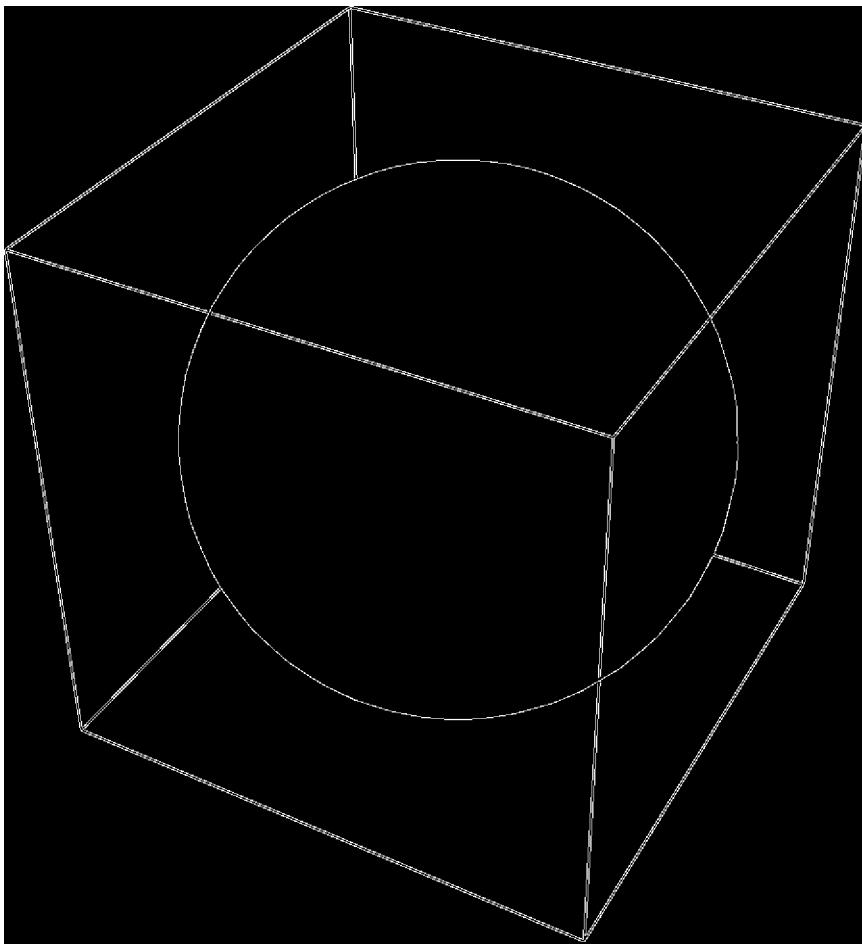
Out[20]=



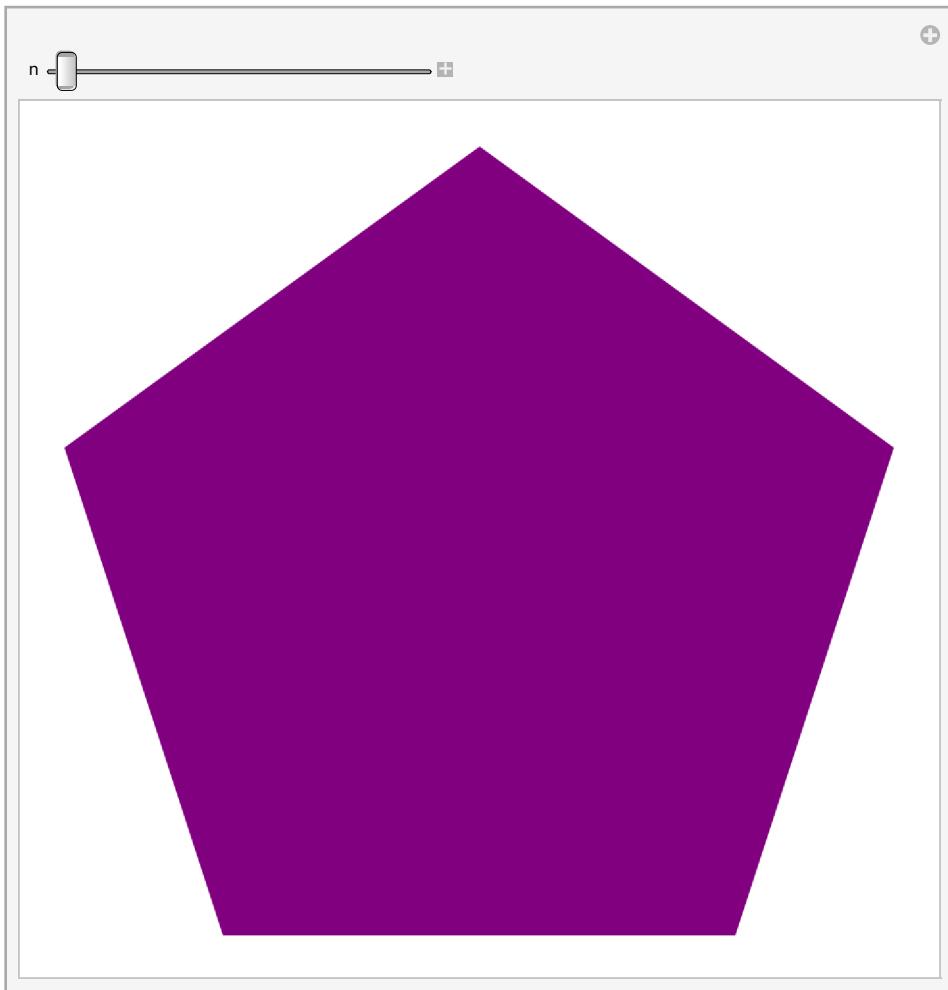
Out[21]=



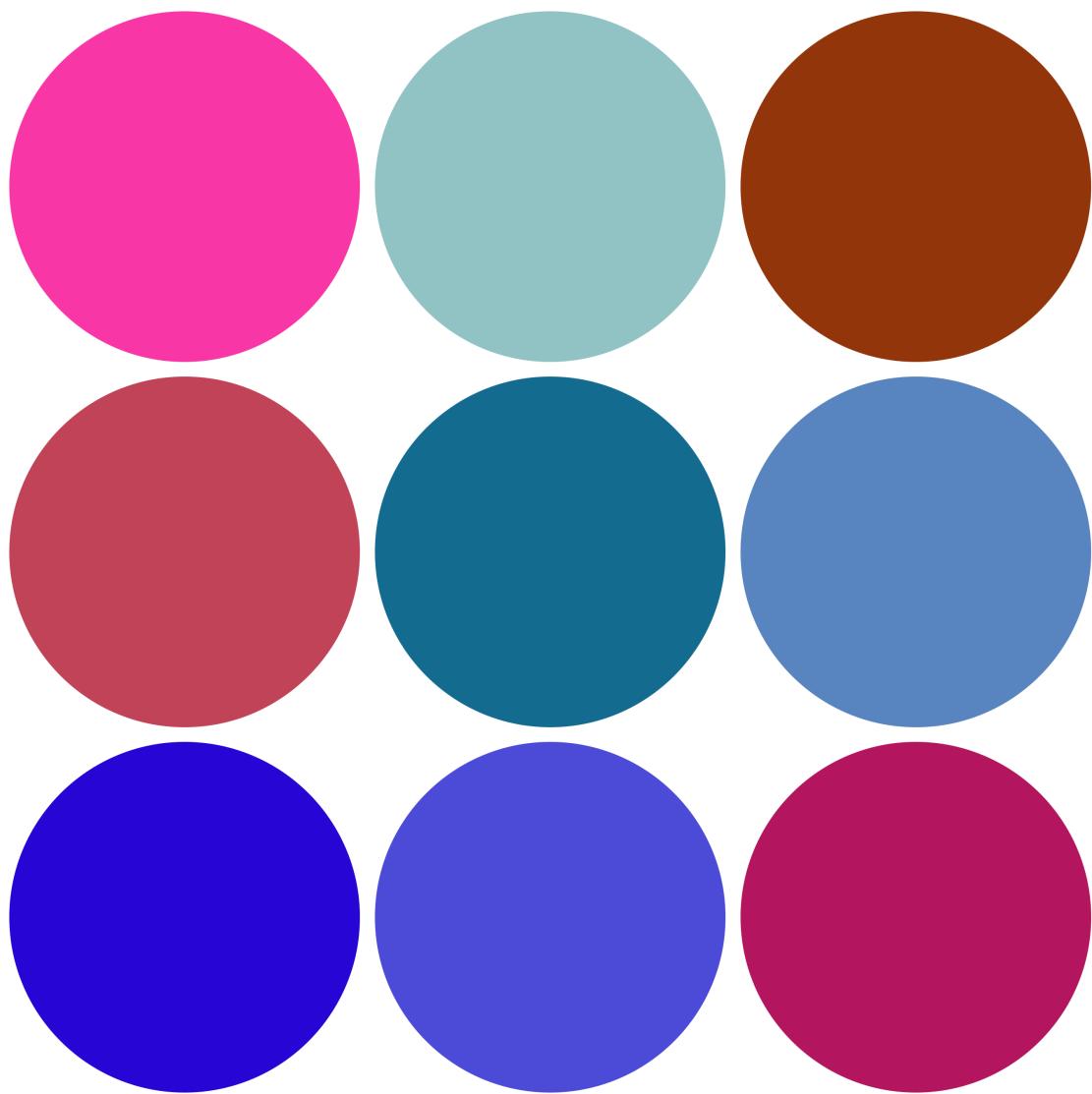
Out[22]=



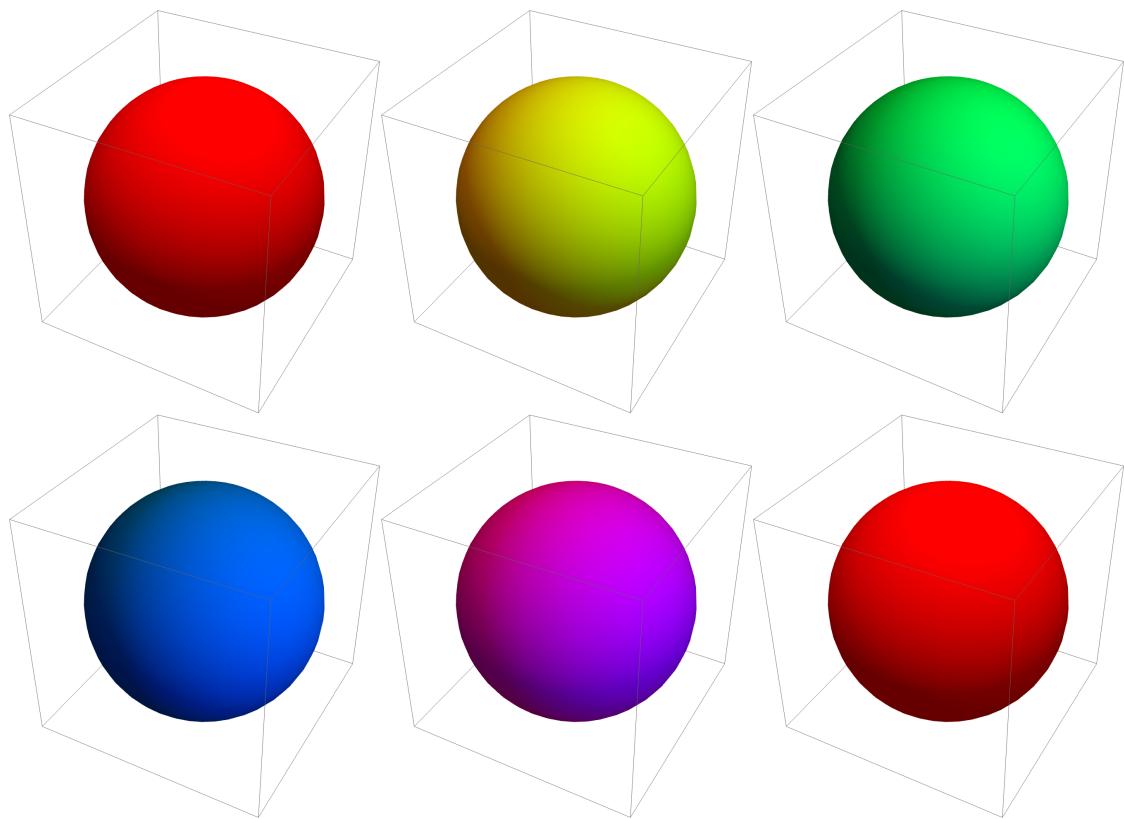
Out[23]=



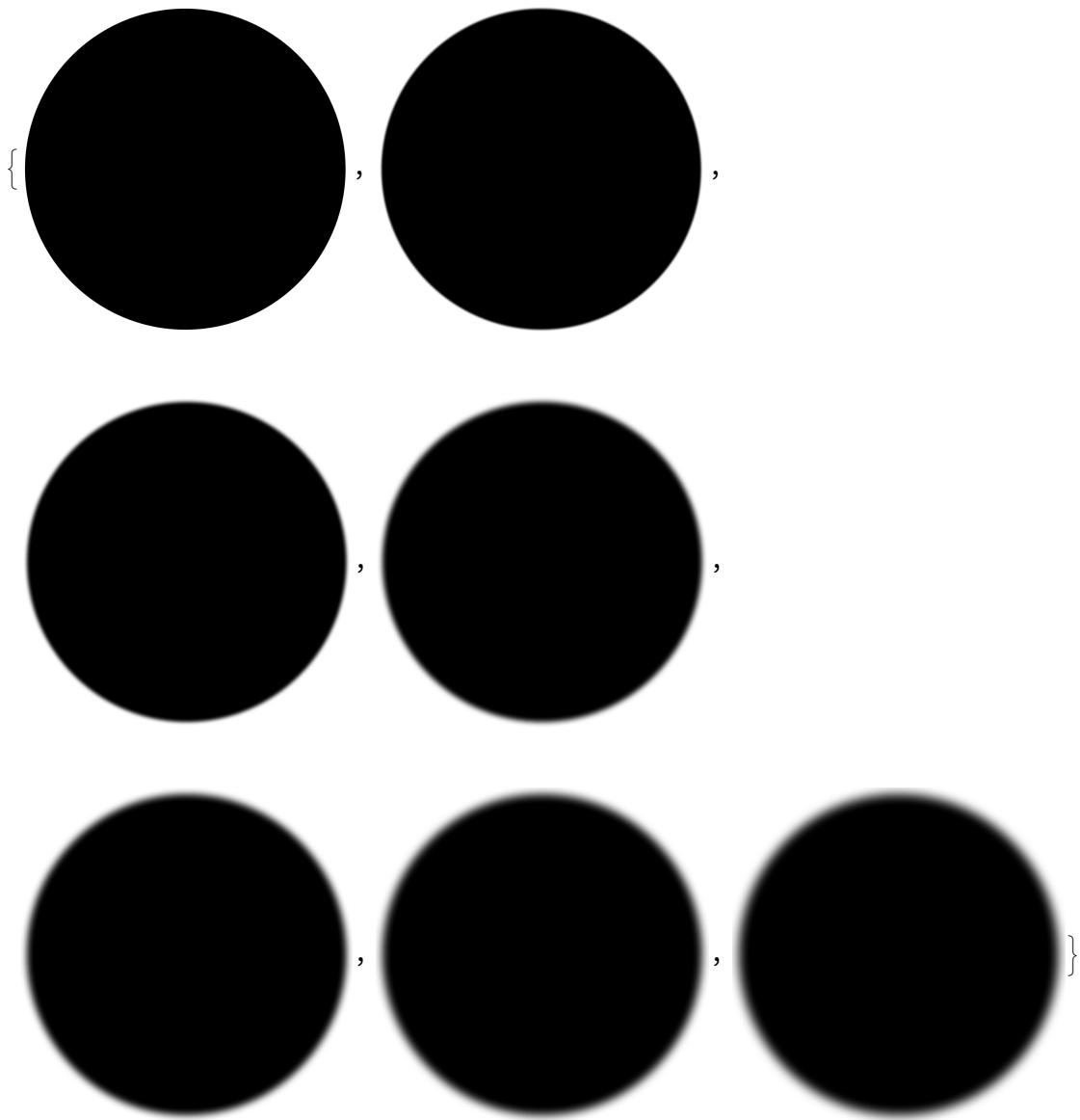
Out[24]=



Out[25]=



Out[26]=



Out[27]=



Out[28]=

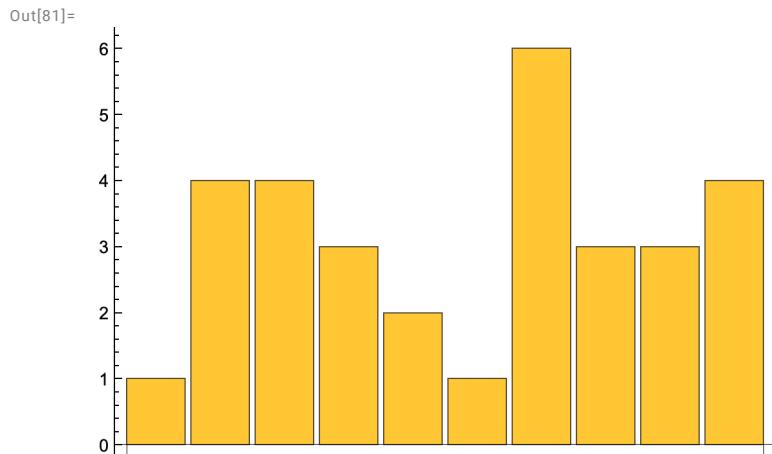


Out[29]=



Section 11

```
Out[80]=  
t  
th  
thi  
this  
this  
this i  
this is  
this is  
this is a  
this is ab  
this is abo  
this is abou  
this is about  
this is about  
this is about s  
this is about st  
this is about str  
this is about stri  
this is about strin  
this is about string  
this is about strings
```



```
Out[82]=  
60266
```

```
Out[83]=  
9271
```

```
Out[84]=  
String or strings may refer to:
```

Out[85]=

```

AMTTACCESEMTTCTPP=ITTDDBTTT==DTLTTTSITIIDMTAAATTIASIBIAITIITSI=CCAHTFTTAEBNH
=ITax()2{,THI=DHTTTTAB==CBTDETTITIRTZTT=PTEITDTTHACIINCLOTIIHBT==TTHTVTE=
ECWATIHJTIIAATBAIL=TJFCJTHATHTTWITT=TTDTKIHKNHNPNIMTGFTTWISTITS=TLTNTTT=C=A=SH=
TC==ATIET=WTTSC=TSC=TCATRDIRTPWJSAT=TES=TTSHALTSG=
AETTLSIETWOAMTTRACrRIISFIIG=IDOHCIAAMA=WTOBITSTBSIT=SMSTSS=SSCICW=T=TTMIAL=
TITHTFMPWSTCBOTOI=ITTSTTITMWITC=PUTTS=MF=ATHHIT=PALTP=ETHOBSA=CTITTTICITA"=AWA=
TMH=TQCVSLTTT=ACARPE=AT=====M

```

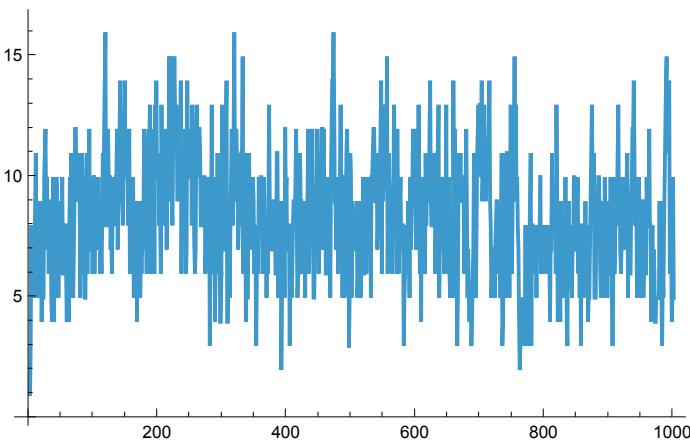
Out[86]=

23

Out[87]=

194

Out[88]=



Out[89]=

A 3D surface plot showing a complex function. The surface has several peaks and valleys. Labels are placed above the surface, corresponding to specific points or features. The labels include:
k, z, w, b, x, t, o, r, g, j, m, d, i, a, e, n, l, f, p, S, v, q, C, y, u, h.