

EIWL Sections 9-11 - Harper Yonago

In[230]:=

Section 9

In[231]:=

```
Manipulate[Range[n], {n, 1, 100, 1}]
```

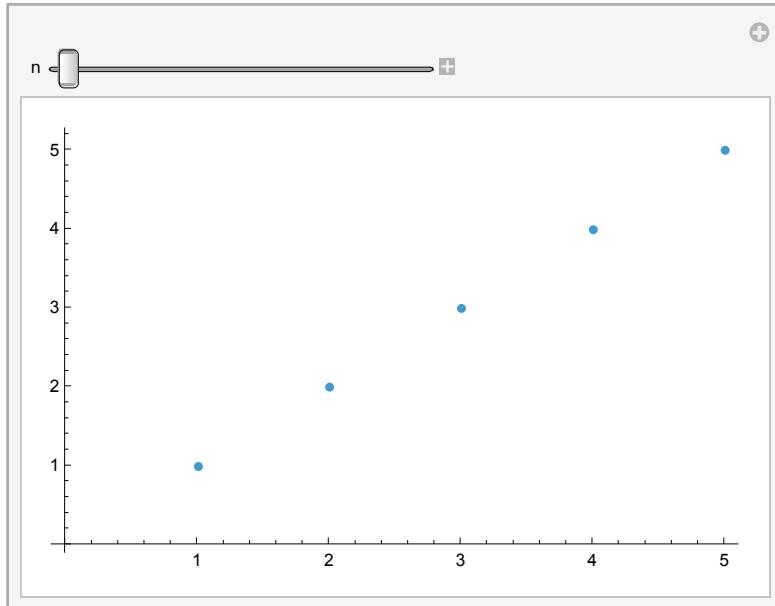
Out[231]=



In[232]:=

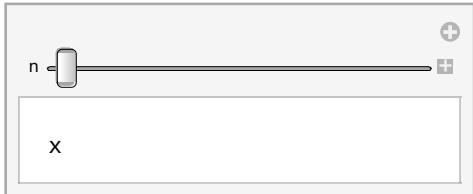
```
Manipulate[ListPlot[Range[n]], {n, 5, 50, 1}]
```

Out[232]=



In[233]:= Manipulate[Column[Table[x, n]], {n, 1, 10, 1}]

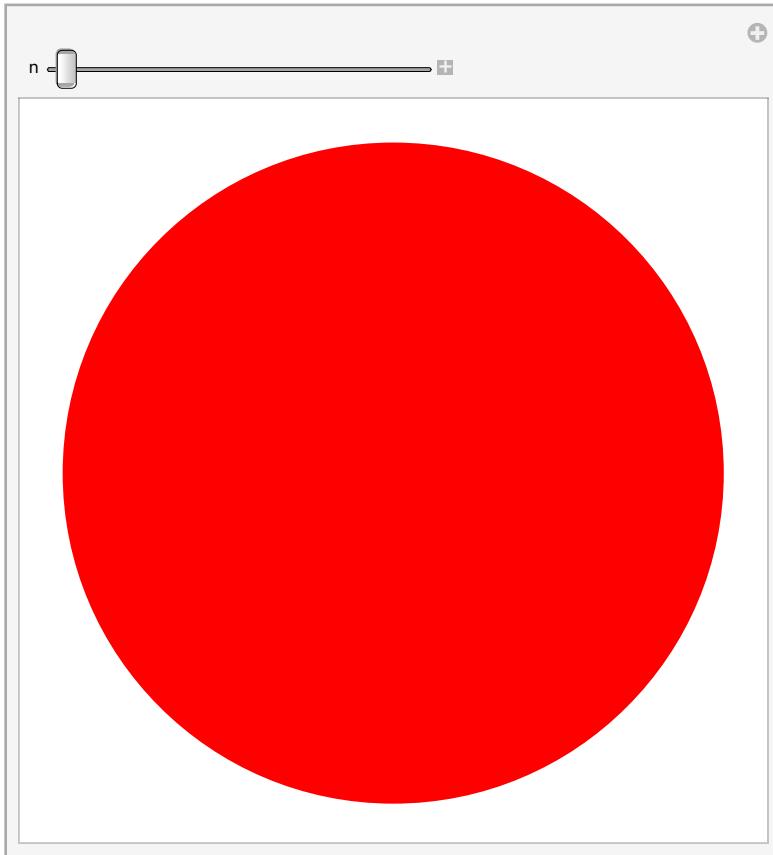
Out[233]=



In[234]:=

Manipulate[Graphics[Style[Disk[], Hue[n]]], {n, 0, 1}]

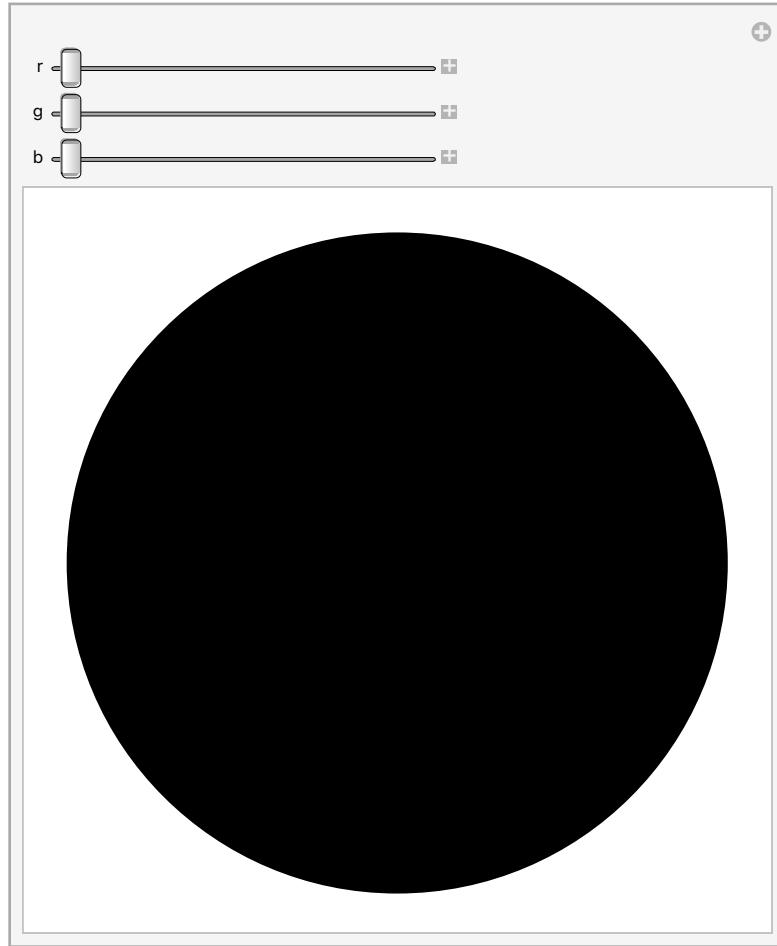
Out[234]=



In[235]:=

```
Manipulate[Graphics[Style[Disk[], RGBColor[r, g, b]]], {r, 0, 1}, {g, 0, 1}, {b, 0, 1}]
```

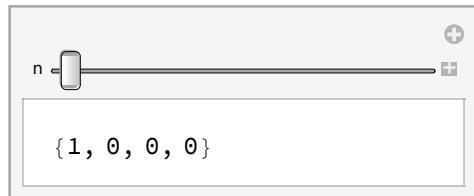
Out[235]=



In[236]:=

```
Manipulate[IntegerDigits[n], {n, 1000, 9999, 1}]
```

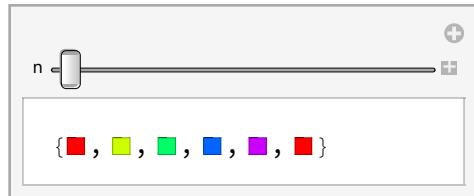
Out[236]=



In[237]:=

```
Manipulate[Table[Hue[h], {h, 0, 1, n}], {n, 0.2, 0.02}]
```

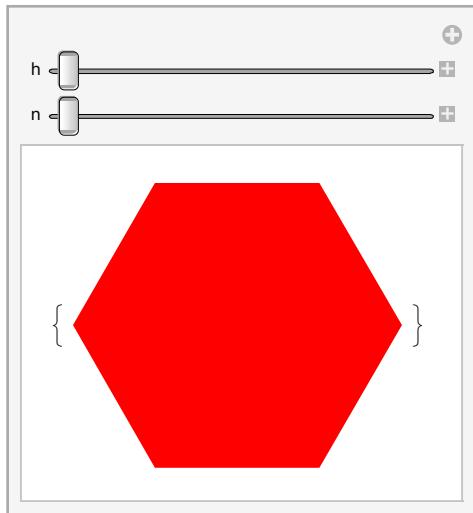
Out[237]=



In[238]:=

```
Manipulate[Table[Graphics[Style[RegularPolygon[6], Hue[h]]], n],  
{h, 0, 1}, {n, 1, 10, 1}]
```

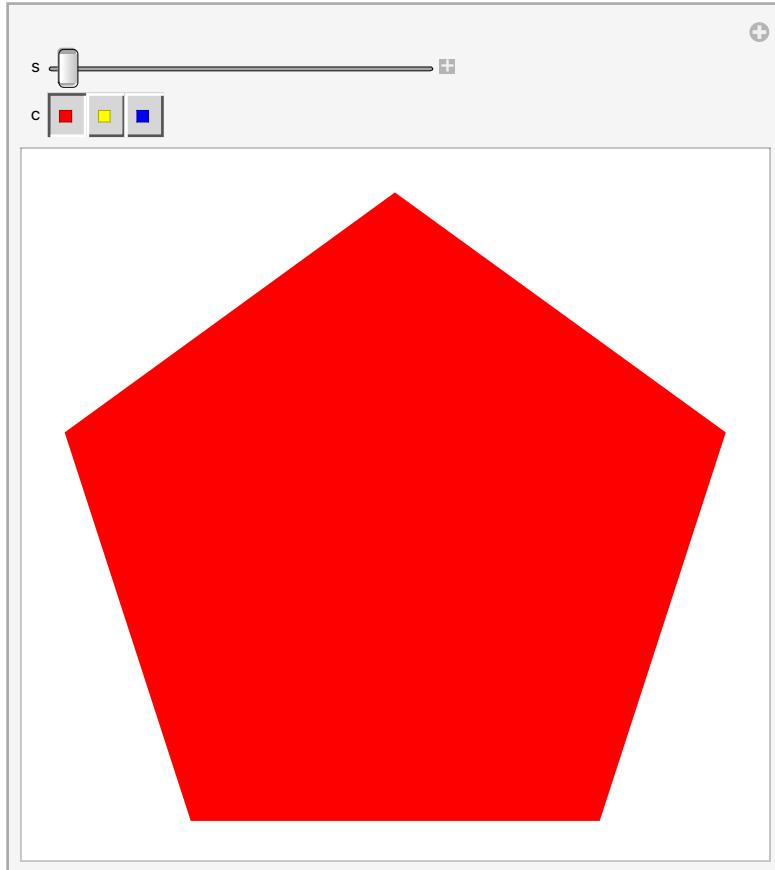
Out[238]=



In[239]:=

```
Manipulate[Graphics[Style[RegularPolygon[s], {c}]],  
{s, 5, 20, 1}, {c, {Red, Yellow, Blue}}]
```

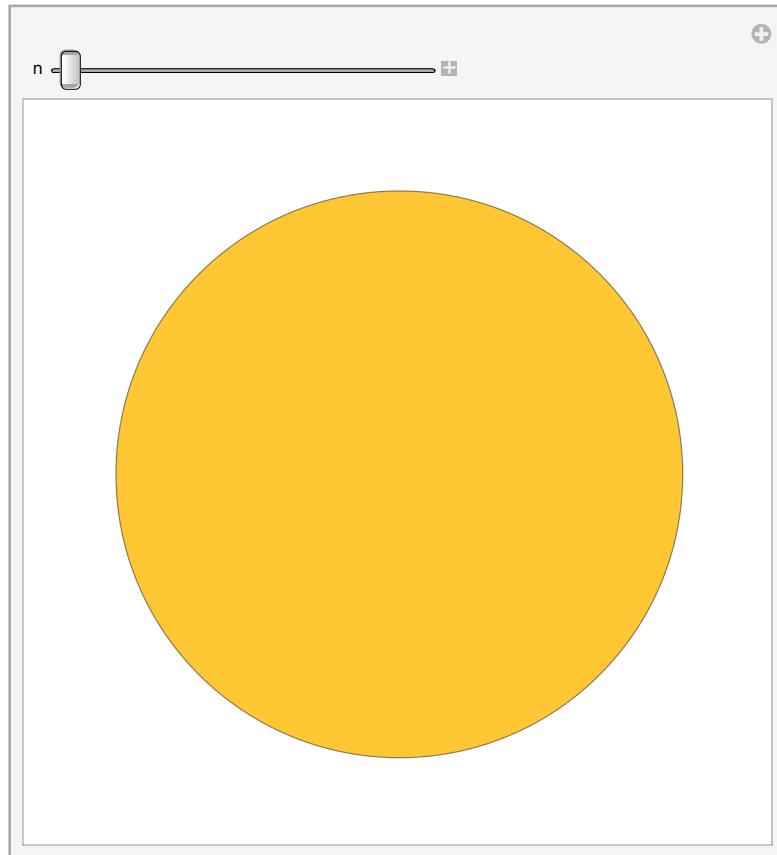
Out[239]=



In[240]:=

```
Manipulate[PieChart[Table[1, n]], {n, 1, 10, 1}]
```

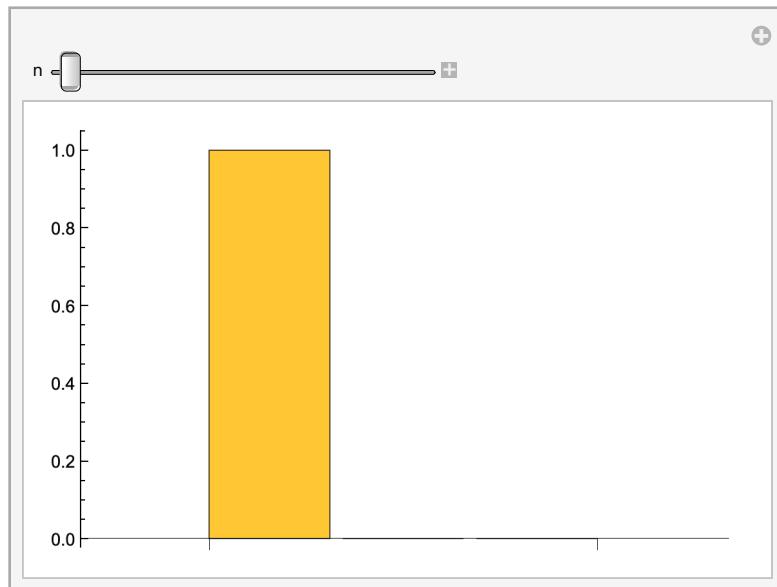
Out[240]=



In[241]:=

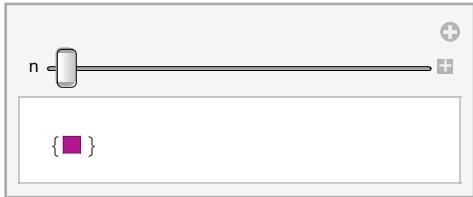
```
Manipulate[BarChart[IntegerDigits[n]], {n, 100, 999, 1}]
```

Out[241]=



In[242]:= Manipulate[RandomColor[n], {n, 1, 50, 1}]

Out[242]=



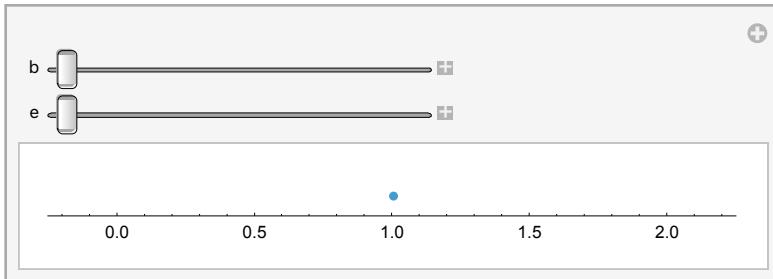
In[243]:= Manipulate[b^e, {b, 1, 25, 1}, {e, 1, 10, 1}]

Out[243]=



In[244]:= Manipulate[NumberLinePlot[Range[b]^e], {b, 1, 10, 1}, {e, 0, 5, 1}]

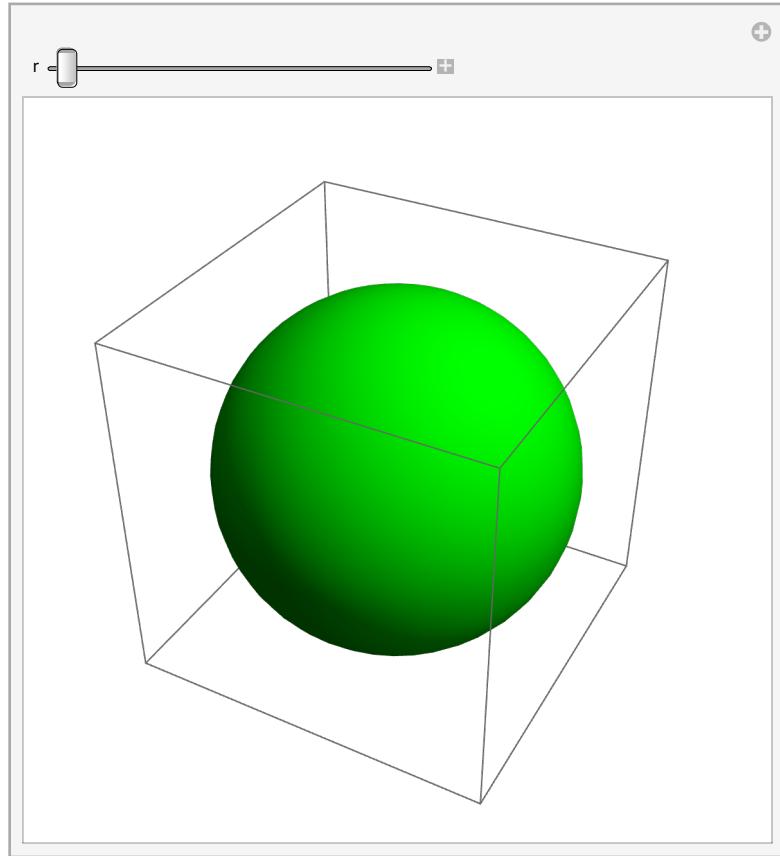
Out[244]=



In[245]:=

```
Manipulate[Graphics3D[Style[Sphere[], RGBColor[r, 1 - r, 0]]], {r, 0, 1}]
```

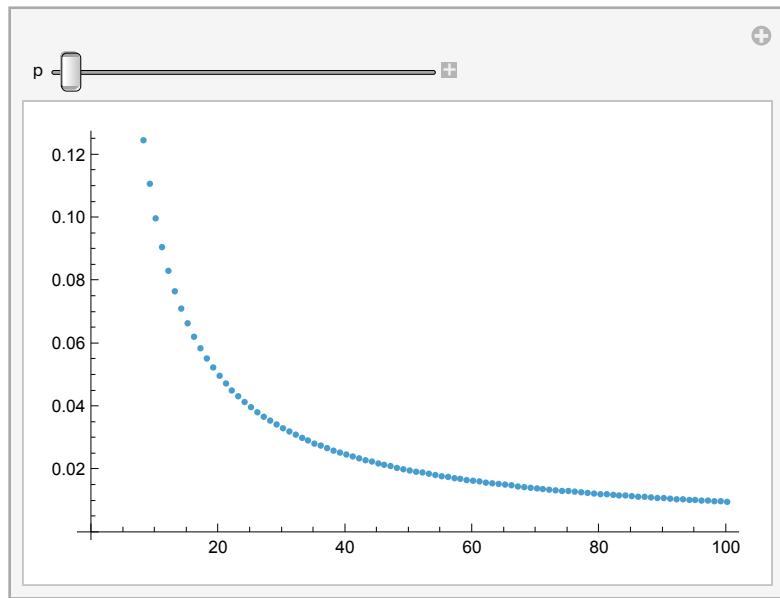
Out[245]=



In[246]:=

```
Manipulate[ListPlot[Range[100]^p], {p, -1, 1}]
```

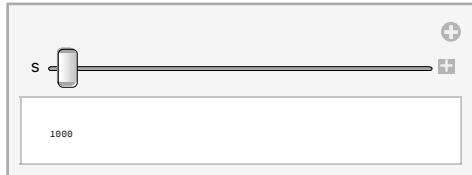
Out[246]=



In[247]:=

```
Manipulate[Style[1000, s], {s, 5, 100, 1}]
```

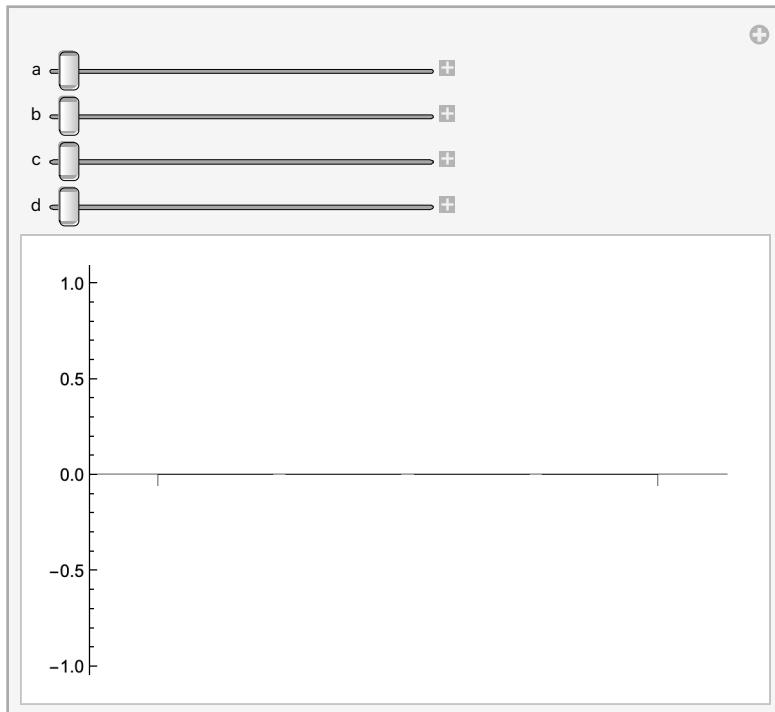
Out[247]=



In[248]:=

```
Manipulate[BarChart[{a, b, c, d}], {a, 0, 10}, {b, 0, 10}, {c, 0, 10}, {d, 0, 10}]
```

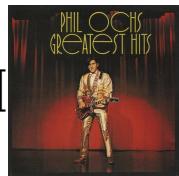
Out[248]=



Section 10

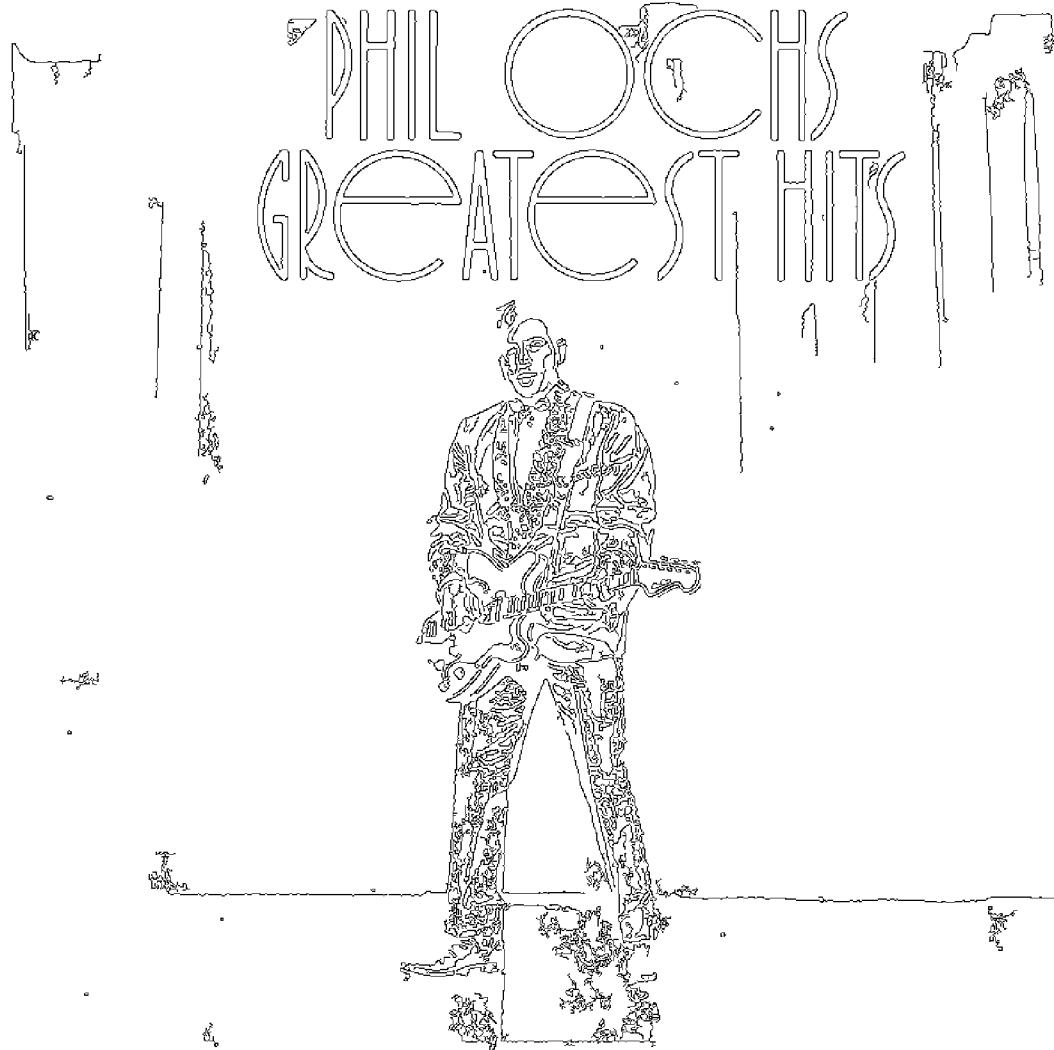
In[249]:=

```
ColorNegate[EdgeDetect[
```



```
]]]
```

Out[249]=



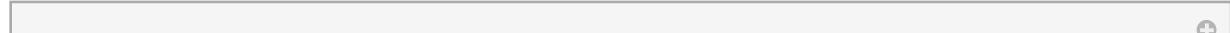
In[250]:=

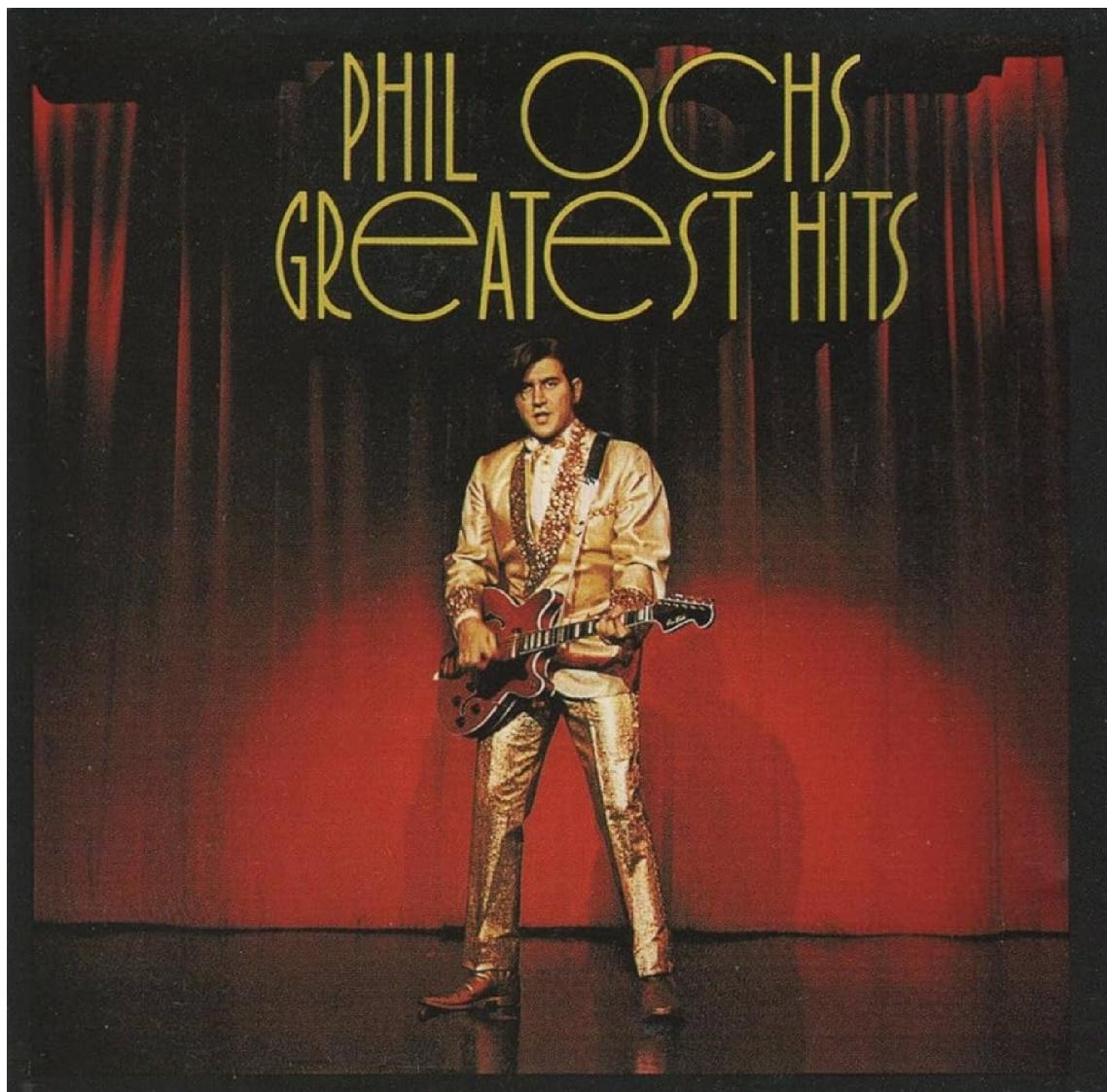
```
Manipulate[Blur[
```



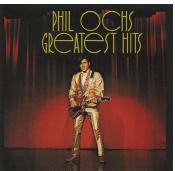
```
, n], {n, 0, 20}]
```

Out[250]=





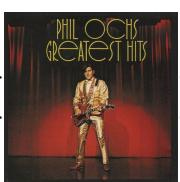
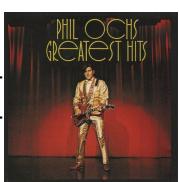
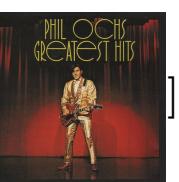
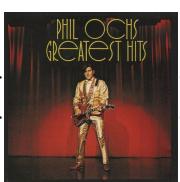
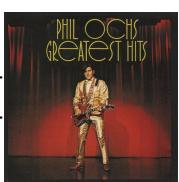
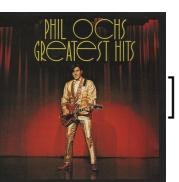
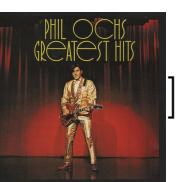
In[251]:=

```
Table[EdgeDetect[Blur[, n]], {n, 10}]
```

Out[251]=



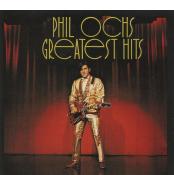
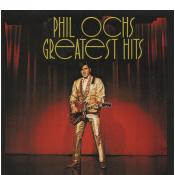
In[252]:=

```
ImageCollage[{{Blur[, EdgeDetect[, Binarize[]}}, {Blur[, EdgeDetect[, Binarize[]}], EdgeDetect[
```

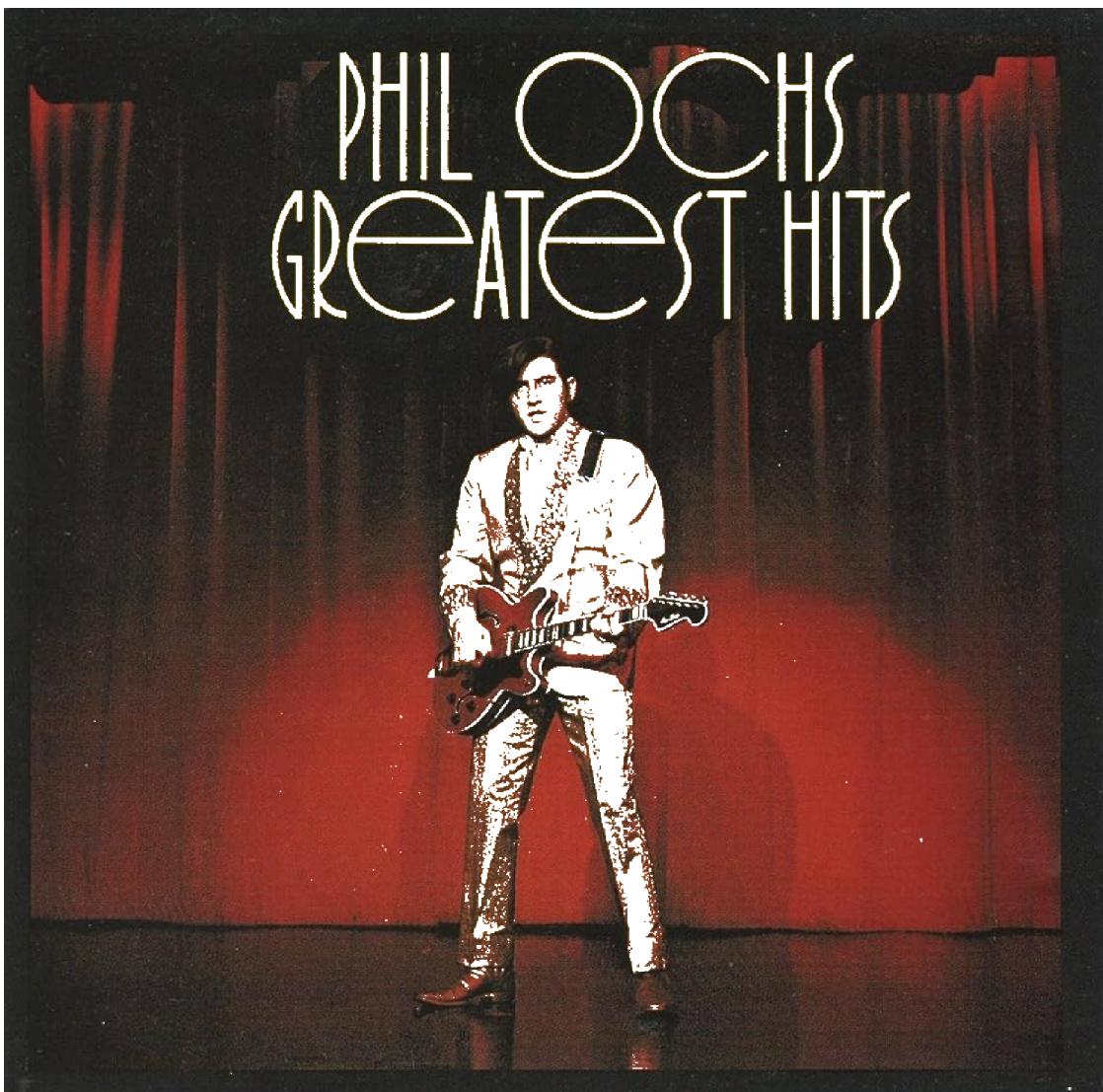
Out[252]=



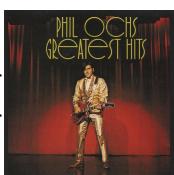
In[253]:=

```
ImageAdd[, Binarize[
```

Out[253]=



In[254]:=

```
Table[EdgeDetect[Blur[, n]], {n, 1, 10}]
```

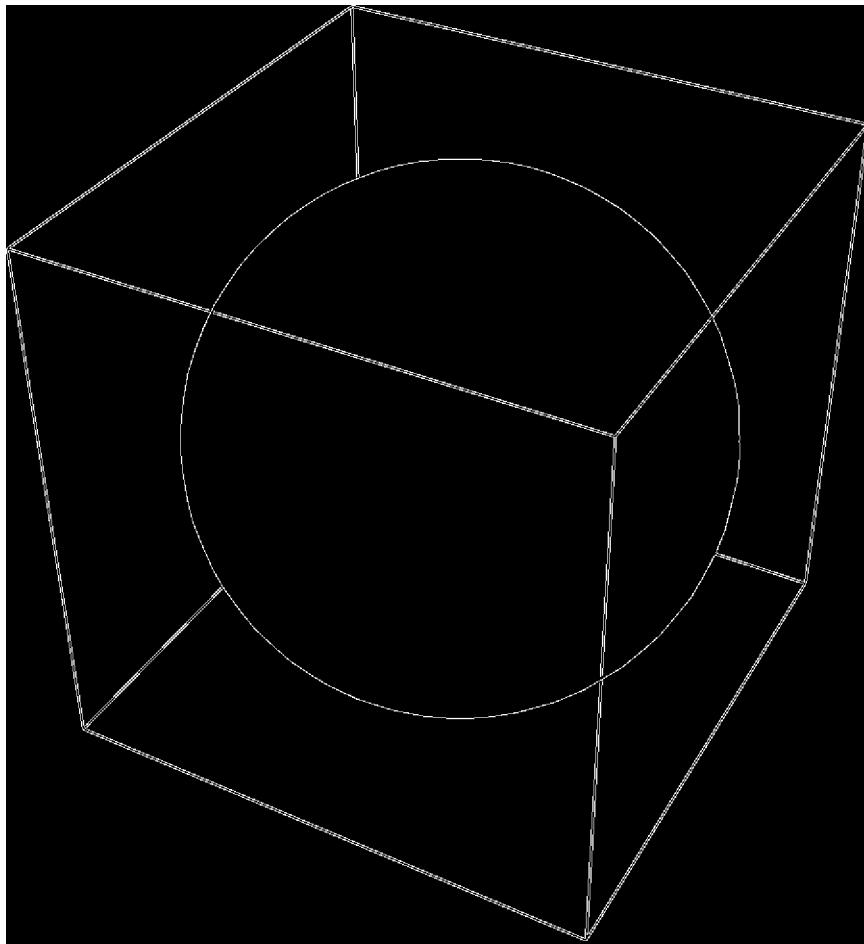
Out[254]=



In[255]:=

```
EdgeDetect[Graphics3D[Sphere[]]]
```

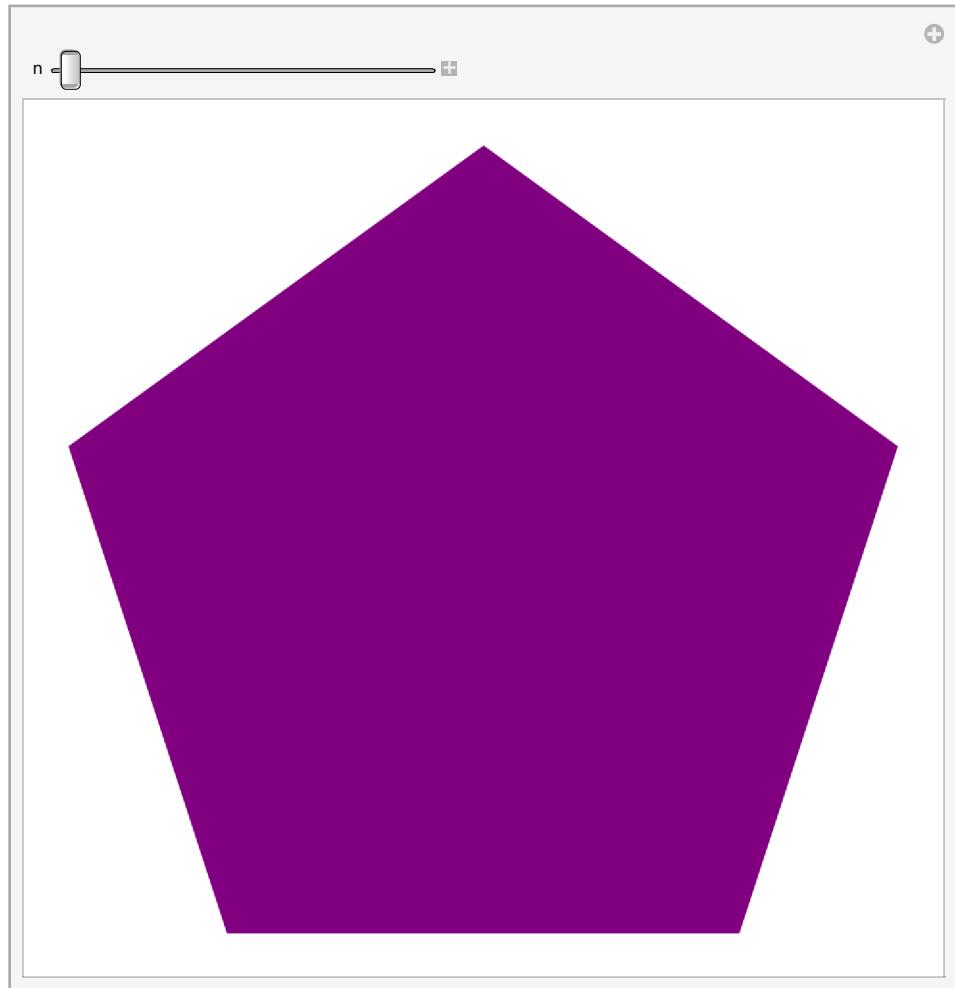
Out[255]=



In[256]:=

```
Manipulate[Blur[Graphics[Style[RegularPolygon[5], Purple]], n], {n, 0, 20}]
```

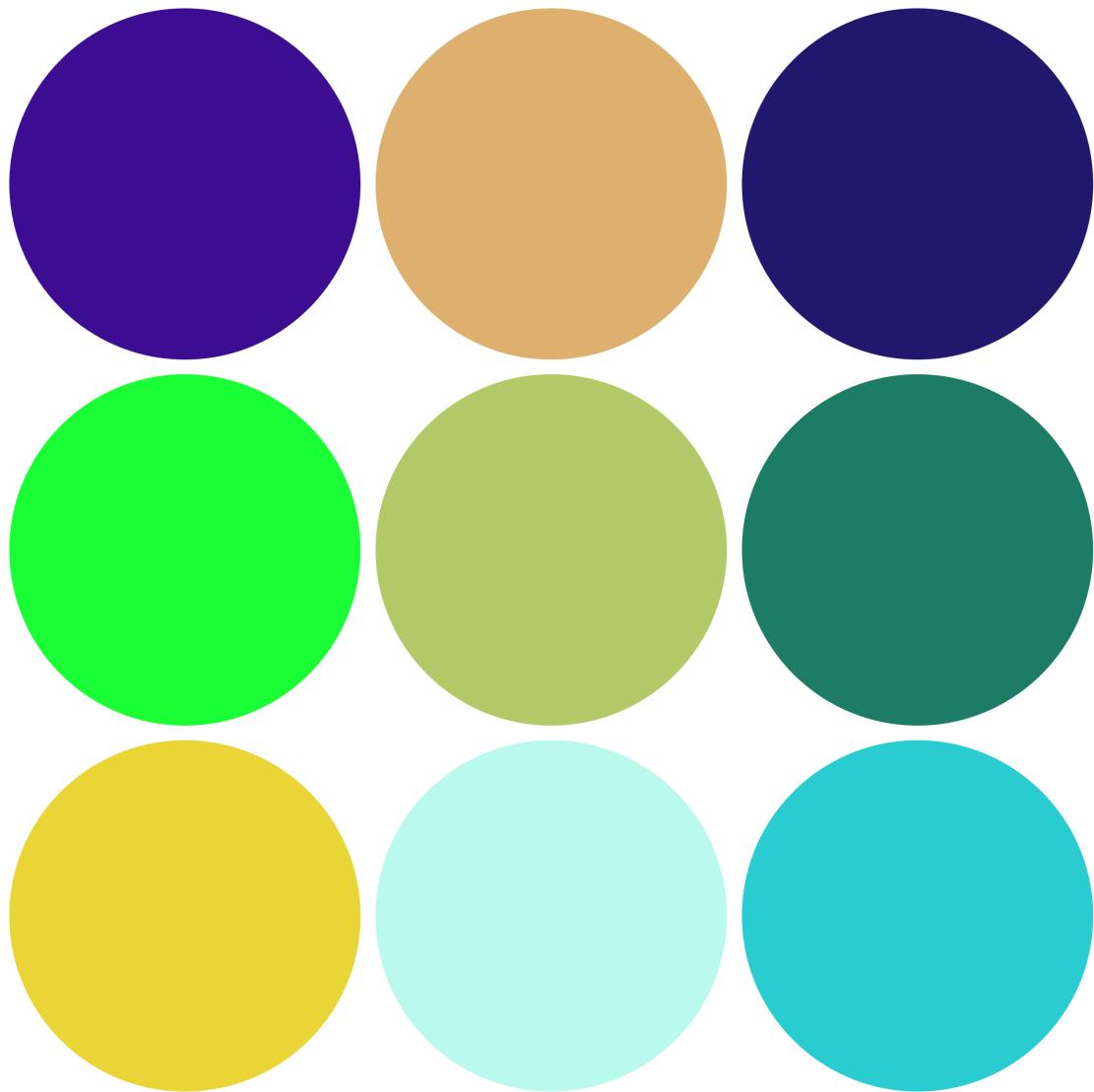
Out[256]=



In[257]:=

```
ImageCollage[Table[Graphics[Style[Disk[], RandomColor[]]], 9]]
```

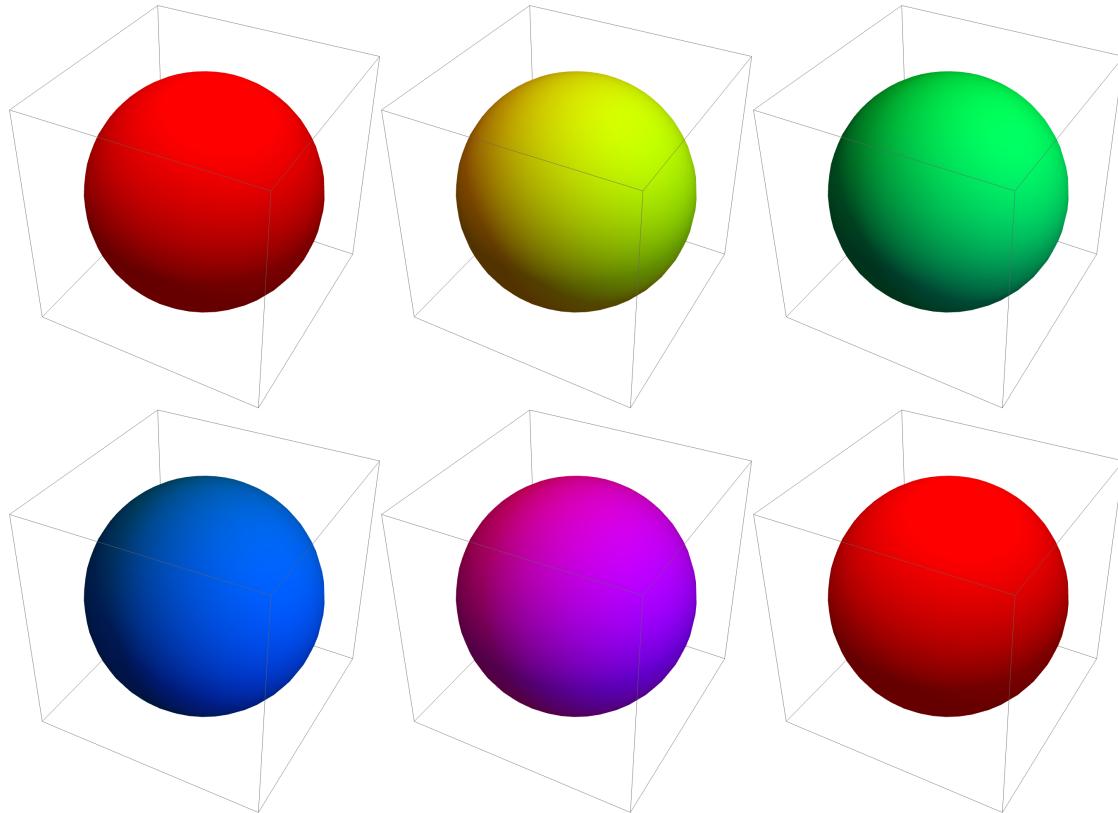
Out[257]=



In[258]:=

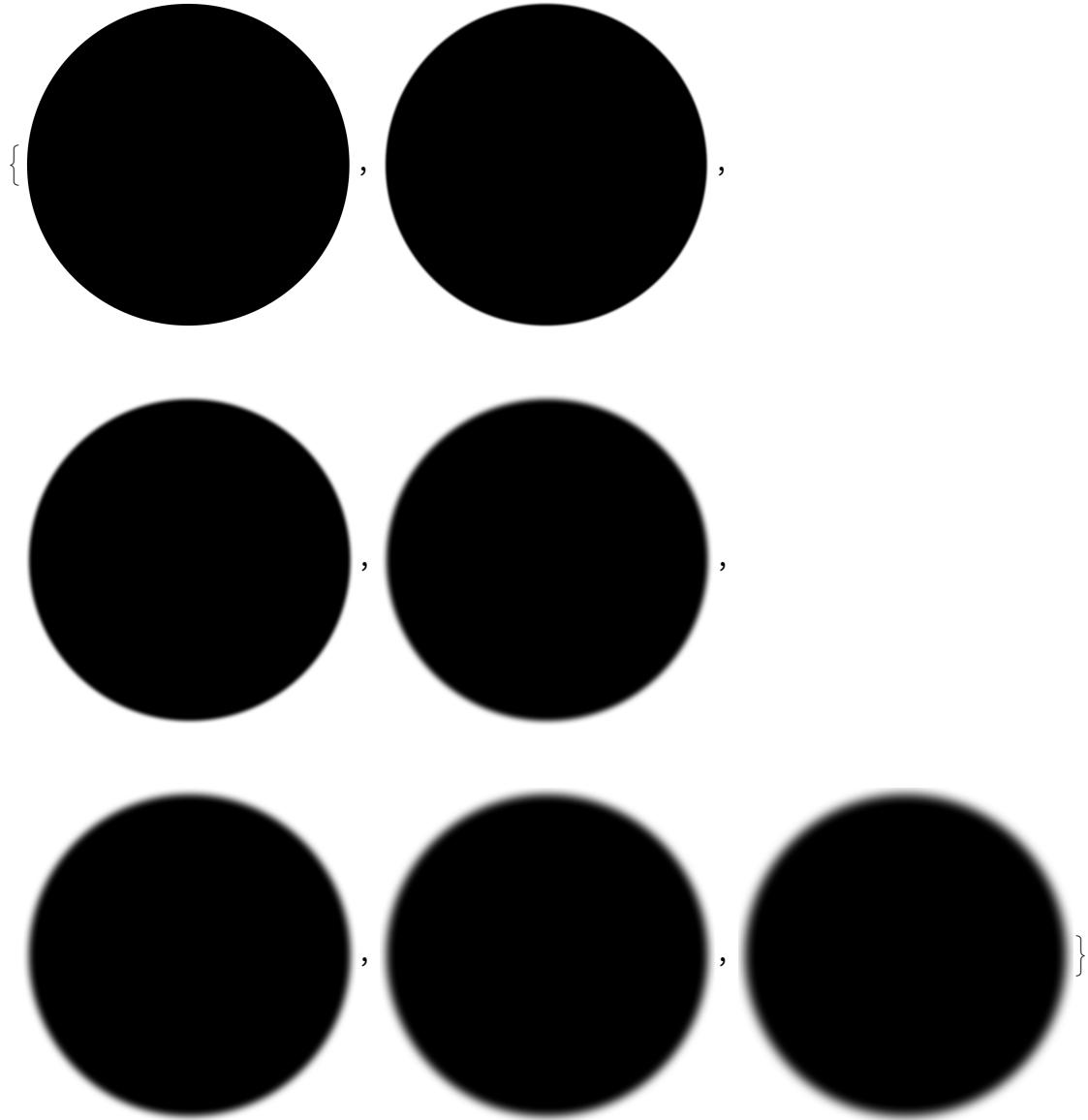
```
ImageCollage[Table[Graphics3D[Style[Sphere[], Hue[n]]], {n, 0, 1, 0.2}]]
```

Out[258]=

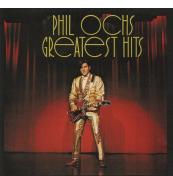


```
In[259]:= Table[Blur[Graphics[Disk[]], n], {n, 0, 30, 5}]
```

```
Out[259]=
```



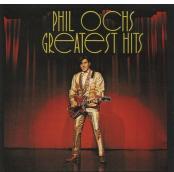
In[260]:=

```
ImageAdd[, Graphics[Disk[]]]
```

Out[260]=



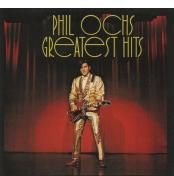
In[261]:=

```
ImageAdd[, Graphics[Style[RegularPolygon[8], Red]]]
```

Out[261]=



In[262]:=

```
ImageAdd[, ColorNegate[EdgeDetect[]]]
```

Out[262]=



Section 11 - 11.1-11.15

In[263]:=

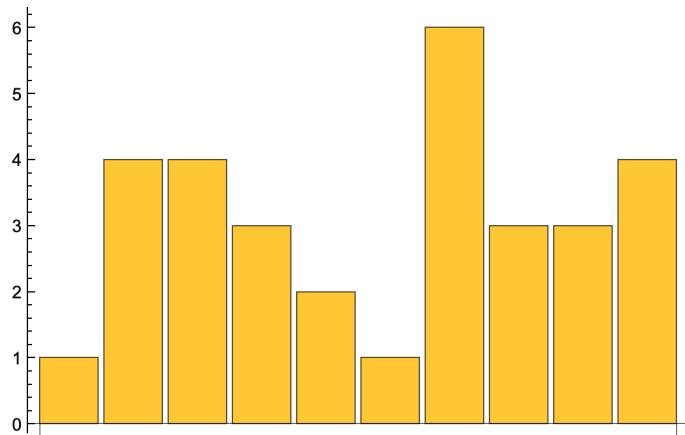
```
StringJoin["Hello", "Hello"]
```

Out[263]=

```
HelloHello
```



```
In[270]:= BarChart[StringLength[TextWords["A long time ago, in a galaxy far, far away."]]]
Out[270]=
```



```
In[271]:= StringLength[WikipediaData["computers"]]
Out[271]=
```

60266

```
In[272]:= First[TextSentences[WikipediaData["strings"]]]
Out[272]=
```

String or strings may refer to:

```
In[273]:= StringJoin[StringTake[TextSentences[WikipediaData["computers"]], 1]]
Out[273]=
```

AMTTACCESEMTTCTPP=ITTDDBTTTT==DTLTTTSITIIDMTAAATTIASIBIAITITIITSI=CCAHTFTTTAEBNH
=ITax () 2{, THI=DHTTTTAB==CBTDETTITIRTZTT=PTEITDTTHACIINCTLOTIIIHBT==TTHTVTE=
ECWATIHJTIIAATBAIL=TJFCJTHATHTTWITT=TTDTKIHKNHNPNIWTGFTTWISTITS=TLTLTTT=C=A=SH=
TC==ATIET=WTTSC=TSC=TCATRDIRTPIWJSAIT=TES=TTSHTALTSG=
AETTLSIETWOAMTTRACrRIISFIIG=IDOHCIAMA=WTOBITSTBSIT=SMSTSS=SSCICW=T=TTMIAL=
TITHTFMPWSTCBOTOI=ITTSTTITMWITC=PUTTS=MF=ATHHIT=PALTP=ETHOBSA=CTITTCITA"=AWA=
TMH=TQCVSLTTT=ACARPE=AT=====M

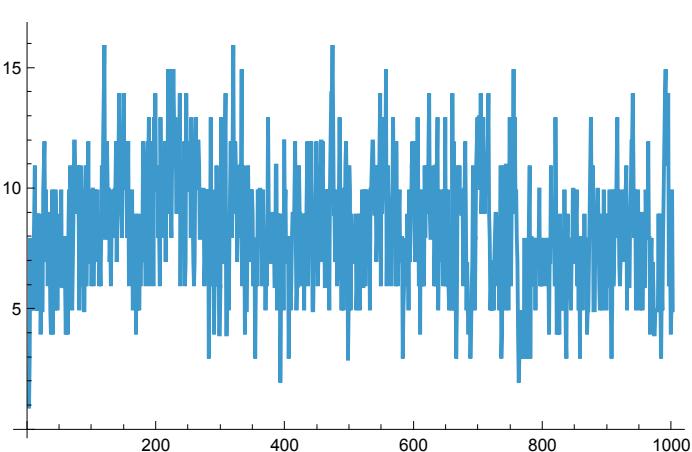
```
In[274]:= Max[StringLength[WordList[]]]
Out[274]=
```

23

```
In[275]:= Count[StringTake[WordList[], 1], "q"]
Out[275]=
```

194

```
In[276]:= ListLinePlot[Take[StringLength[WordList[]], 1000]]
```



```
In[277]:= WordCloud[StringTake[WordList[], 1]]
```

