

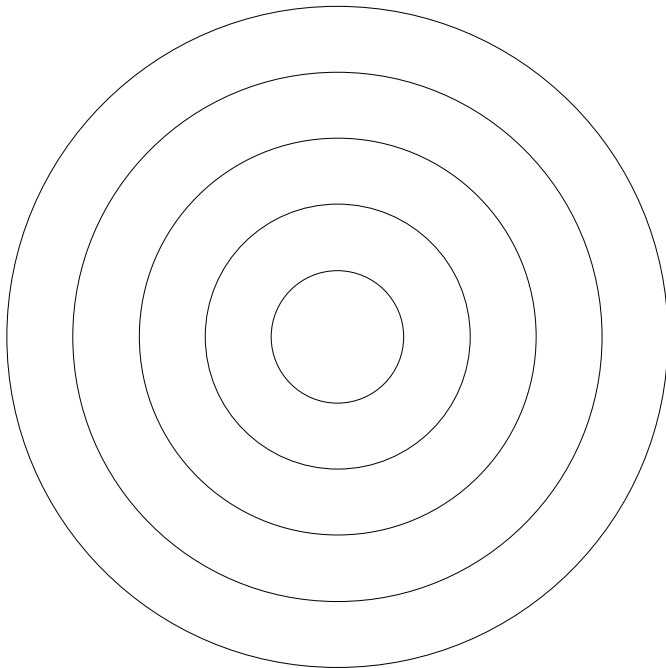
Eli — PS 5 — 2025-02-04

EIWL3 Sections 14 and 17

Chapter 14

```
In[320]:= Graphics[Table[Circle[{0, 0}, r], {r, 1, 5}]]
```

Out[320]=



Looks great!

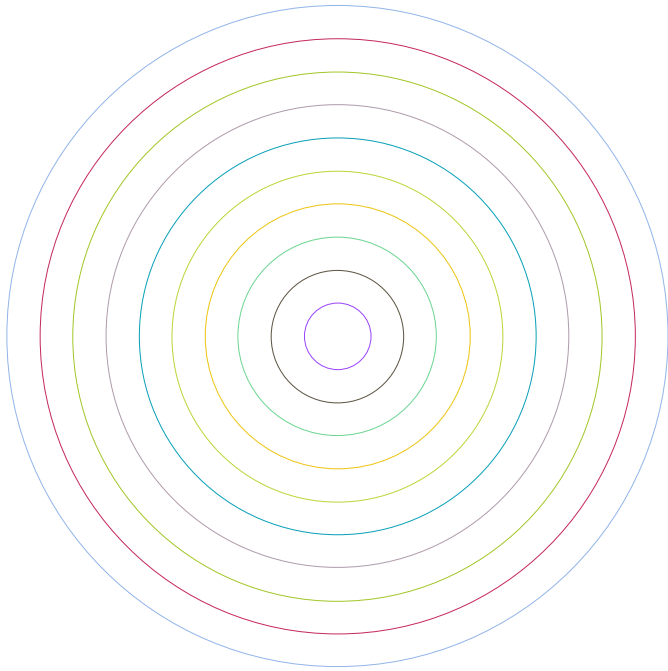
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A few comments
(none particularly
significant)
on the following
pages, e.g., p. 6.

```
In[321]:=
```

```
Graphics[Table[Style[Circle[{0, 0}, r], RandomColor[]], {r, 1, 10}]]
```

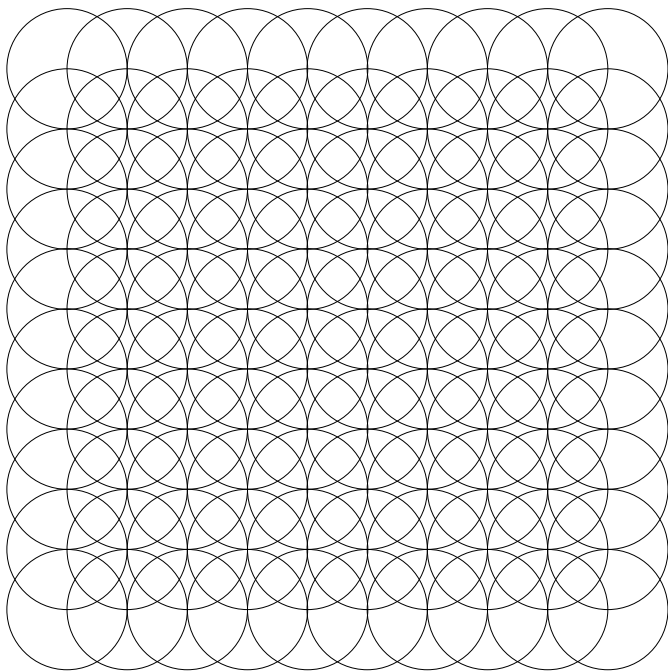
```
Out[321]=
```



```
In[322]:=
```

```
Graphics[Table[Circle[{x, y}, 1], {x, 1, 10}, {y, 1, 10}]]
```

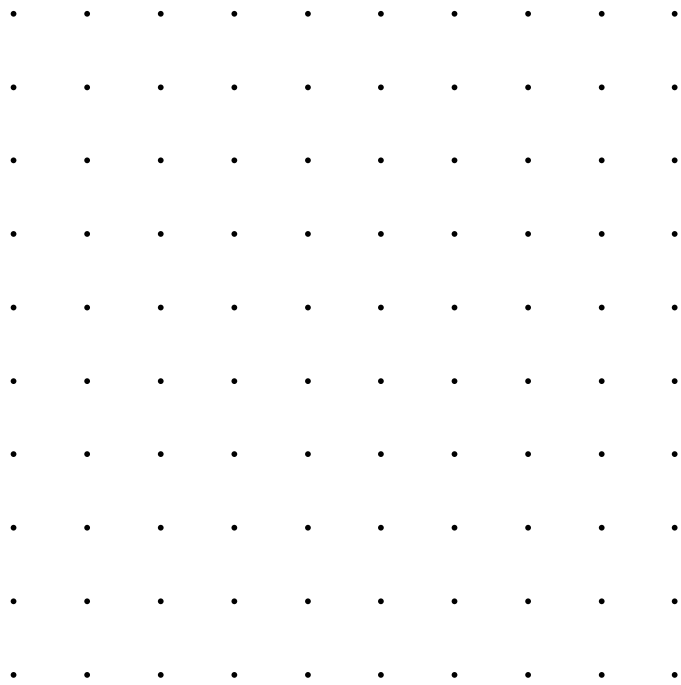
```
Out[322]=
```



```
In[323]:=
```

```
Graphics[Table[Point[{x, y}], {x, 1, 10}, {y, 1, 10}]]
```

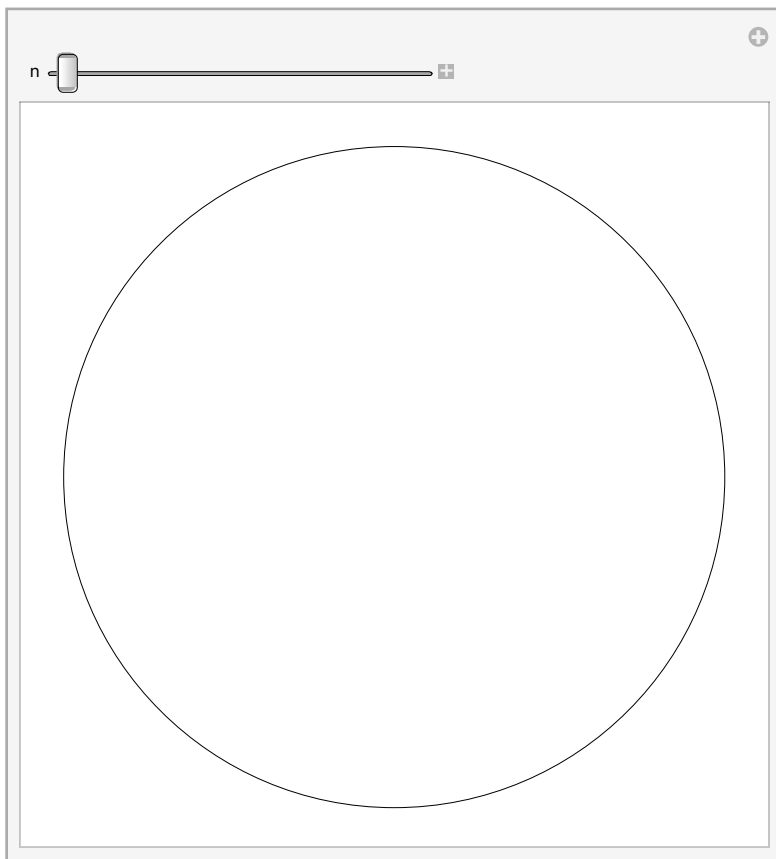
```
Out[323]=
```



In[324]:=

Manipulate[Graphics[Table[Circle[{0, 0}, r], {r, 1, n}]], {n, 1, 20, 1}]

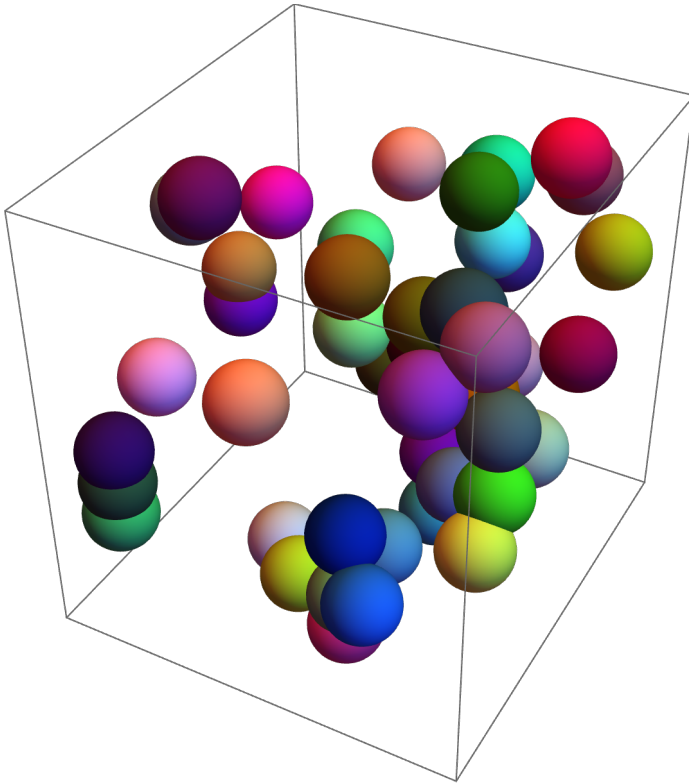
Out[324]=



In[325]:=

```
Graphics3D[Table[Style[Sphere[{RandomInteger[10, 3]}, 1], RandomColor[]], 50]]
```

Out[325]=




In[326]:=

```
Show[%827, Axes → True, AxesStyle → Black]
```

 **Show:** Out is not a type of graphics. 

Out[326]=

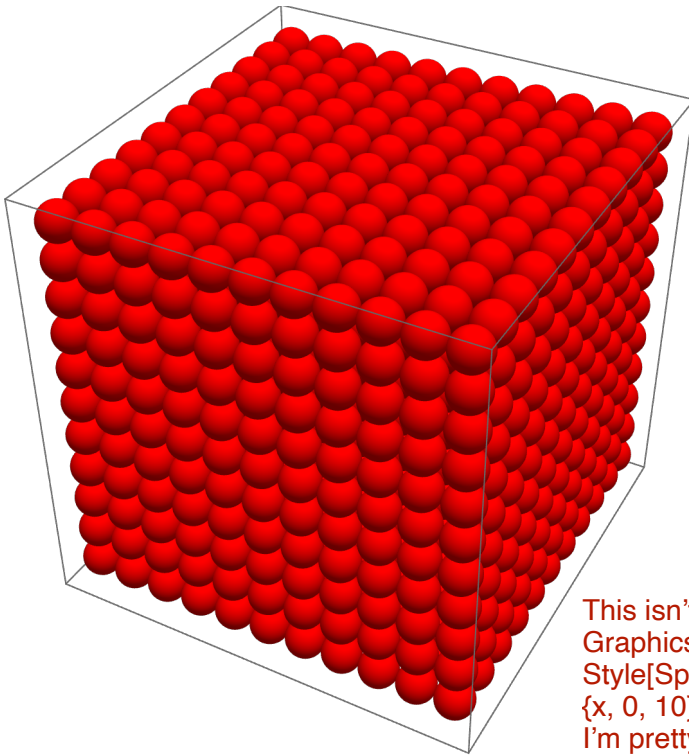
```
Show[%827, Axes → True, AxesStyle → 
```

Of course,
these errors
happened
because I re-
executed your
notebook and
the output
numbers
changed.

In[327]:=

```
Graphics3D[Table[Style[Sphere[{x, y, z}], Hue[n]],
  {x, 1, 22, 2}, {y, 1, 22, 2}, {z, 1, 22, 2}, {n, 0, 1}]]
```

Out[327]=

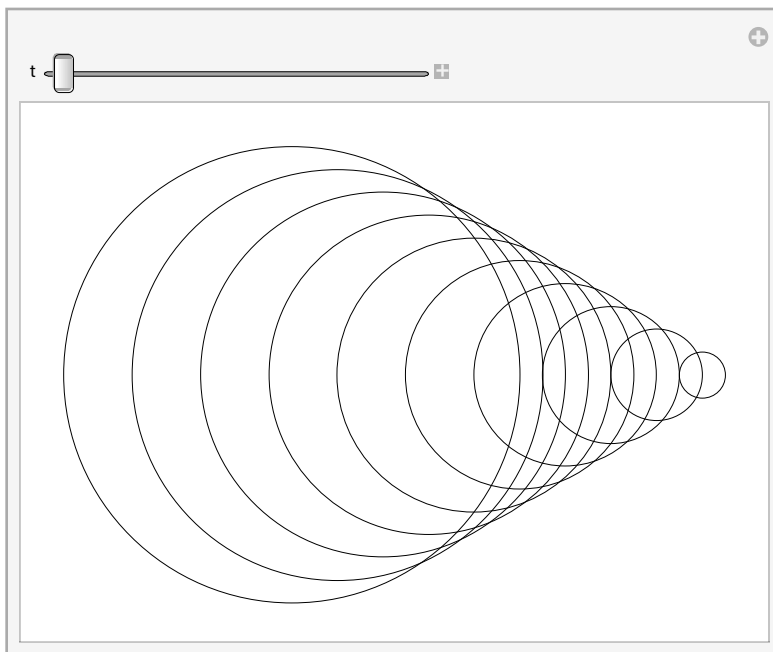


This isn't what he was looking for. I did
 Graphics3D[Table[
 Style[Sphere[{x, y, z}, 1 / 2], RGBColor[x / 10, y / 10, z / 10]],
 {x, 0, 10}, {y, 0, 10}, {z, 0, 10}]].
 I'm pretty sure that was what Wolfram wanted.

In[328]:=

```
Manipulate[Graphics[Table[Circle[{t x, 0}, x], {x, 1, 10}]], {t, -2, 2}]
```

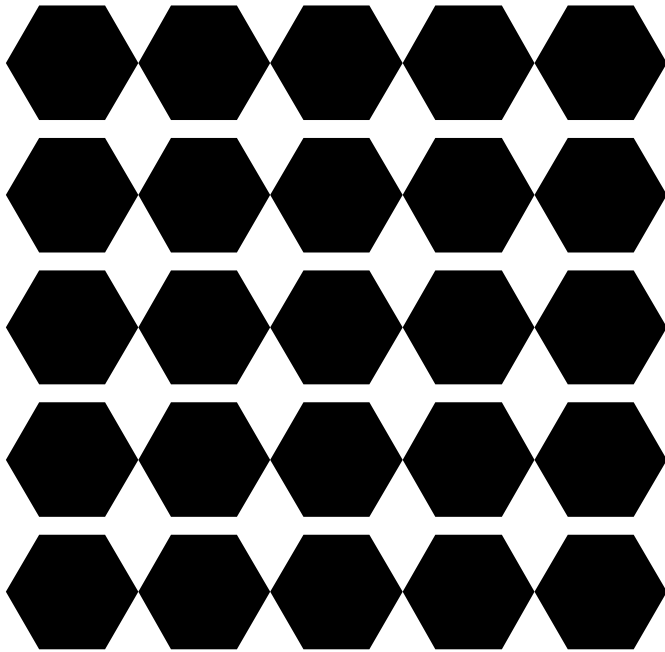
Out[328]=



In[329]:=

```
Graphics[Table[RegularPolygon[{x, y}, 0.5, 6], {x, 1, 5}, {y, 1, 5}]]
```

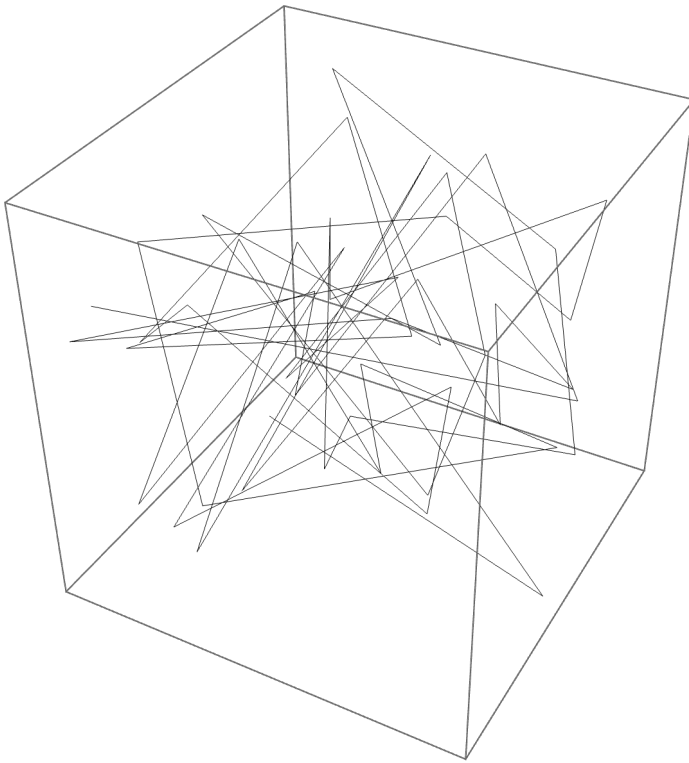
Out[329]=



In[330]:=

```
Graphics3D[Line[Table[RandomInteger[50, 3], 50]]]
```

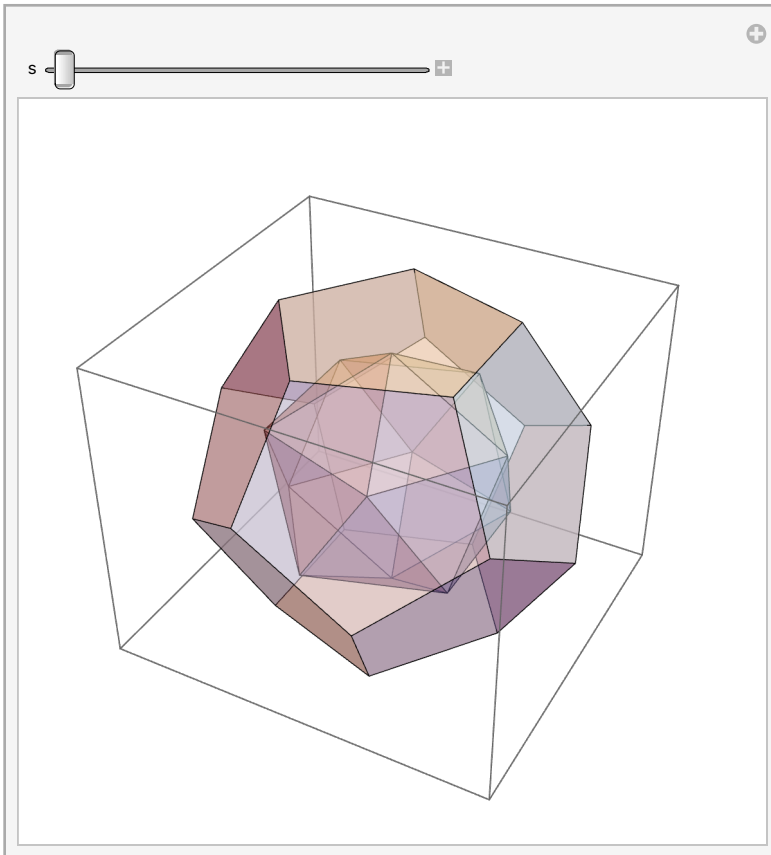
Out[330]=



In[331]:=

```
Manipulate[Graphics3D[Style[
  {Icosahedron[{0, 0, 0}, s], Dodecahedron[{0, 0}, 1]}, Opacity[0.5]]], {s, 1, 2}]
```

Out[331]=



Chapter 17

```
UnitConvert[  ☒, "Kilograms"]
```

Out[332]=

2.04117 kg

```
UnitConvert[  ☒, "Kilometers/hour"]
```

Out[333]=

96.963 km/h

```
UnitConvert[ ☒, ["Height"], "Miles"]
```

Out[334]=

0.205052 mi

Mount Everest MOUNTAIN ☒ ["Elevation"] / **Eiffel Tower** BUILDING ☒ ["Height"]

Out[335]=

26.8147

Earth PLANET ☒ ["Mass"] / **Moon** PLANETARY MOON ☒ ["Mass"]

Out[336]=

81.3

CurrencyConvert [¥2500., ☒ \$ ☒

Out[337]=

\$16.44

UnitConvert [Plus [☒ 35 oz ☒, ☒ 0.25 sh tn ☒,
☒ 45 lb ☒, ☒ 9 stone ☒, ☒ kg ☒]

Out[338]=

305.353 kg

UnitConvert [
{ **Mars** PLANET ☒ ["DistanceFromEarth"], **Venus** PLANET ☒ ["DistanceFromEarth"],
Mercury PLANET ☒ ["DistanceFromEarth"], **Jupiter** PLANET ☒ ["DistanceFromEarth"],
Saturn PLANET ☒ ["DistanceFromEarth"], **Uranus** PLANET ☒ ["DistanceFromEarth"],
Neptune PLANET ☒ ["DistanceFromEarth"] }, ☒ light minutes ☒]

Out[339]=

{ 6.19673 light minutes, 3.66411 light minutes,
11.4198 light minutes, 39.2366 light minutes,
87.3811 light minutes, 162.484 light minutes, 255.37 light minutes }

In[340]:=

Rotate ["hello", 180 Degree]

Out[340]=

o11əɥ

In[341]:=

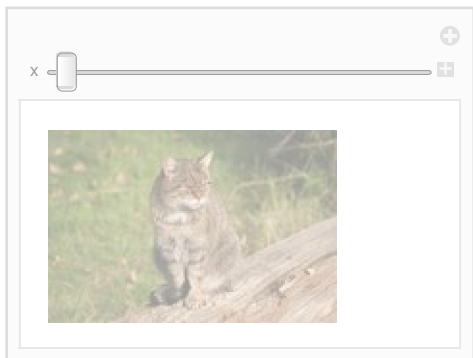
Table [Rotate ["A", x Degree], {x, 0, 360, 30}]

Out[341]=

{A, ⤴, ⤵, ⤶, ⤷, ⤸, ⤹, ⤺, ⤻, ⤼, ⤽, ⤾, ⤿, A}

```
Manipulate[Rotate[domestic cat SPECIES SPECIFICATION ["Image"], x Degree], {x, 0, 180}]
```

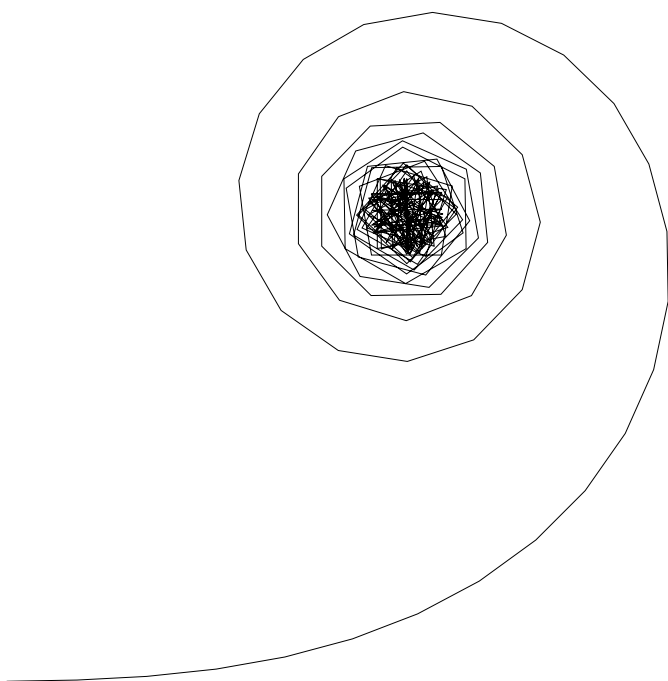
Out[342]=



In[343]:=

```
Graphics[Line[AnglePath[Range[180] Degree]]]
```

Out[343]=



This one was cool!

In[344]:=

```
Manipulate[Graphics[Line[AnglePath[Table[theta, 100]]]], {theta, 0, 360}]
```

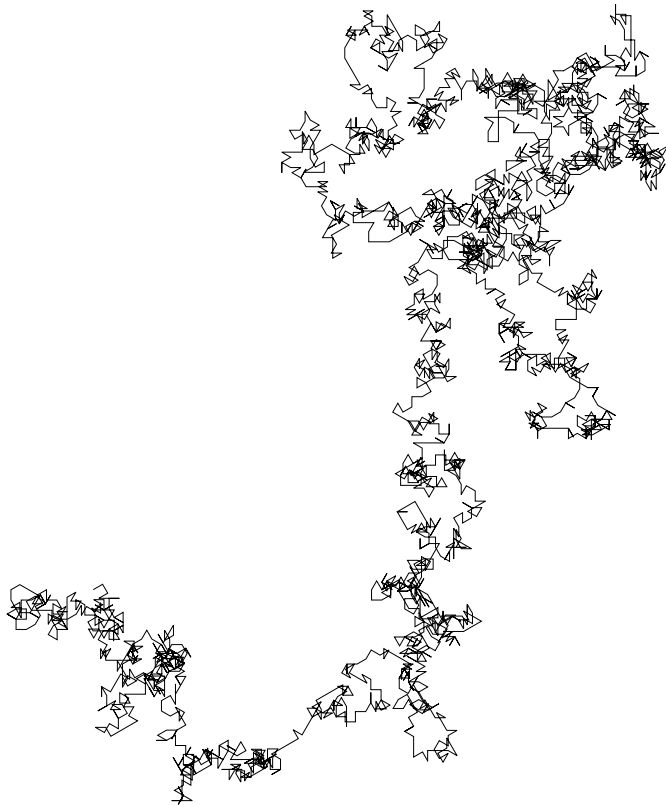
Out[344]=



In[345]:=

```
Graphics[Line[AnglePath[IntegerDigits[2^10 000 ] 30 Degree]]]
```

Out[345]=



This one too!