Walker's Wolfram Language Cheat Sheet

/@ (Map)

In[ ]:= `Times[#, 2] & /@ {1, 2, 3, 4, 5}`

Out[ ]=

`{2, 4, 6, 8, 10}`

@@ (Apply)

In[ ]:= `StringJoin @@ {"party", " -- ", "SO fun!"}`

Out[ ]=

`party -- SO fun!`

@@@ (Map Apply)

In[ ]:= `StringJoin @@@ {{"Is there...", "a party?"}, {"Or is there...", "not?"}}`

Out[ ]=

`{Is there...a party?, Or is there...not?}`

//

In[ ]:= `{"party", " -- ", "SO fun!"} // StringJoin`

Out[ ]=

`party -- SO fun!`

Manipulate

In[ ]:= `Manipulate[Times[m, 2], {m, 5}]`

Out[ ]=

Table

In[ ]:= `Table[Times[n, 2], {n, {1, 2, 3, 4, 5}}]`

Out[ ]=

`{2, 4, 6, 8, 10}`

Array

In[ ]:= `Array[Times[#, 2] &, 5]`

Out[ ]=

`{2, 4, 6, 8, 10}`

Module

In[ ]:= `Module[{x = 2, y = 3}, x * y]`

Out[ ]=

6

Style

In[ ]:= `Style["Party!", Pink, 50]`

Out[ ]=

Party!

Rasterize

In[ ]:= `Rasterize[Style["Party!", Pink, 50]]`

Out[ ]=

Party!

Color Negate

In[ ]:= `ColorNegate[Rasterize[Style["Party!", Pink, 50]]]`

Out[ ]=

Party!

Graphics + Regular Polygon

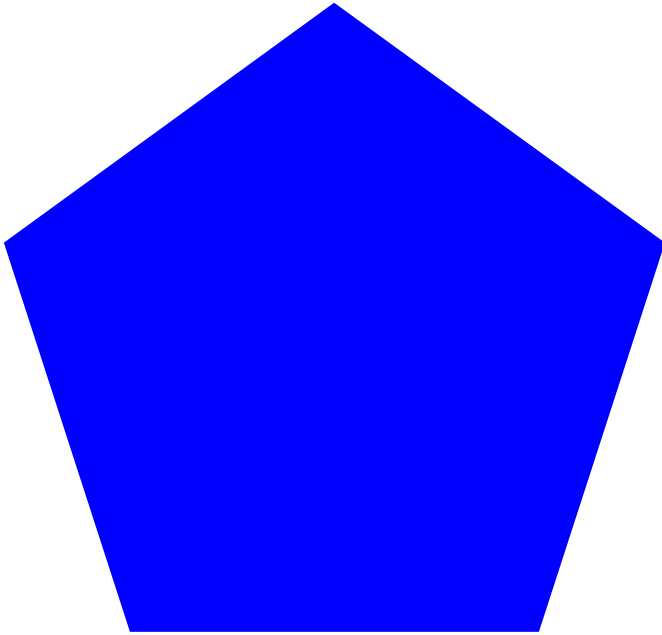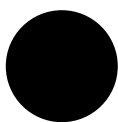*In[ ]:=* `Graphics[Style[RegularPolygon[5], Blue]]`

Out[ ]=

Image Add

In[ ]:= `ImageAdd[Graphics[Style[RegularPolygon[5], Blue]],`
`  Rasterize[Style["Party!", Pink, 50]]]`

Out[ ]=

Point + Point Size
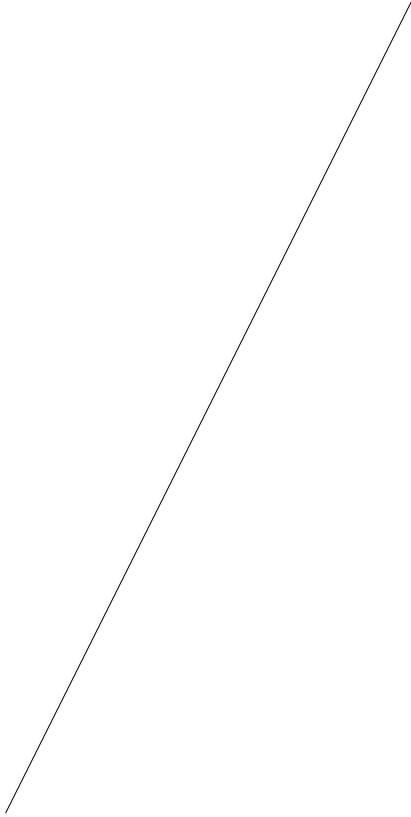
In[ ]:= `Graphics[{PointSize[0.3],`
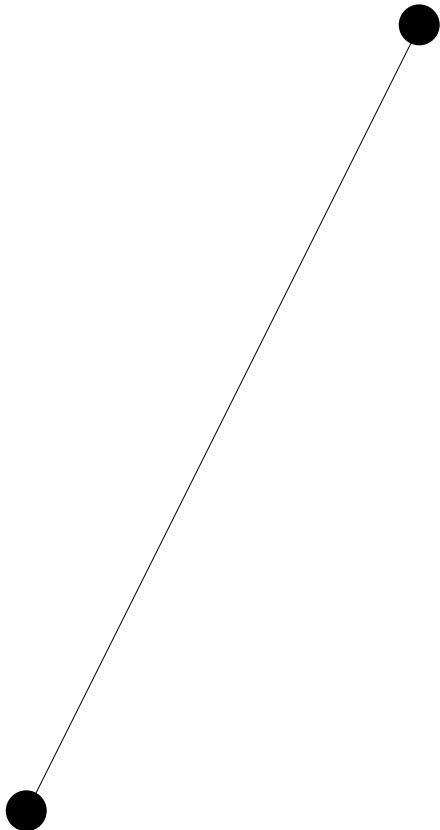   `Point[{{1, 1}, {2, 3}}]}]`

Out[ ]=

Line

In[ ]:= `Graphics[Line[{{1, 1}, {2, 3}}]]`

Out[ ]=

End Points on a Line

In[ ]:= `Graphics[Line[{{1, 1}, {2, 3}}]]`

Out[ ]=

In[ ]:=
```
Graphics[{PointSize[0.1],
   Point[{{1, 1}, {2, 3}}],
   Line[{{1, 1}, {2, 3}}]
  }]
```

Out[ ]=

Conditional Tests

In[ ]:=
```
10 == 2
10 > 2
10 < 2
```

Out[ ]=

False

Out[ ]=

True

Out[ ]=

False

Q Tests

```
In[ ]:=  IntegerQ[10]
         MemberQ[{8, 9, 10}, 10]
         PrimeQ[10]
         NumberQ["10"]
         LetterQ["10"]
```

```
Out[ ]=
         True
```

```
Out[ ]=
         True
```

```
Out[ ]=
         False
```

```
Out[ ]=
         False
```

```
Out[ ]=
         False
```

If

```
In[ ]:=  If[PrimeQ[#], #, Nothing] & /@ Range[23]
```

```
Out[ ]=
         {2, 3, 5, 7, 11, 13, 17, 19, 23}
```