**Notes Brushes and Pathfinder**  3/9/20

Different Types of Brushes

* **Calligraphic brushes**
  + Create strokes that resemble those drawn with the angled point of a calligraphic pen and are drawn along the center of the path. When you use the Blob Brush tool, you can paint with a calligraphic brush and automatically expand the brush stroke into a fill shape that merges with other filled objects of the same color that intersect or are adjacent in stacking order.
* **Scatter brushes**
  + Disperse copies of an object (such as a ladybug or a leaf) along the path.
* **Art brushes**
  + Stretch a brush shape (such as Rough Charcoal) or object shape evenly along the length of the path.
* **Bristle brush**
  + Create brush strokes with the appearance of a natural brush with bristles.
* **Pattern brushes**
  + Paint a pattern—made of individual *tiles*—that repeats along the path. Pattern brushes can include up to five tiles, for the sides, inner corner, outer corner, beginning, and end of the pattern.

**Creating Brushes**

* Calligraphic Brush
  + Go to the Brushes panel by going to Window -> Brushes
  + Click on the Panel Menu (hamburger).
  + Select New Brush.
  + Select Calligraphic Brush.
  + Name the Brush.
  + Adjust the angle, roundness and size to a specific value.
  + Draw a stroke and apply it.
* Scatter Brush
  + Create a stroke using the Brush Tool, Blob Brush Tool or Pencil Tool
  + Select the stroke you created.
  + Go back to the Brushes panel.
  + Click the Panel Menu and select New Brush
  + Click on Scatter Brush
  + Name the Brush
  + Play with the values Size, Spacing, Scatter and Rotation
  + Draw stroke and apply it.
* Art Brush
  + Create an object using the Brush Tool, Blob Brush Tool, Pencil Tool or the shape tool
  + Select the object you created.
  + Go back to the Brushes panel.
  + Click the Panel Menu and select New Brush
  + Select the Art Brush option
  + Name the Brush
  + Click on the Tint option
  + Press okay
  + Draw a stroke with your pencil tool and select the brush you just created
* Pattern Brush
  + Create a series of objects.
  + Select them all.
  + Go to the Brushes Panel
  + Select the Panel Menu (hamburger)
  + Select New Brush
  + Name the brush.
  + Adjust the spacing.
  + Adjust the flip
  + Practice Stretch to fit, Add space to fit and Approximate path
  + Colorization set to Tint.
  + Press OK
  + Create a stroke and apply the brush from the brushes panel.

**Deleting Brushes**

* Click on the brush in the Brush Panel you wish to delete.
* Select the panel menu and click Delete Brush.
* If it’s applied, a new window will pop up that says, “Expand Strokes, Remove Strokes or Cancel”
  + Expand strokes turns the stroke into the object.
  + Remove strokes take the strokes applied and removes them from the objects that were created using the strokes.

**Editing Brushes**

* Double click on the brush and it will allow you to go back to the brush window and edit the specifics of your brush.

**Pathfinder Panel**

* Go to Window -> Pathfinder to open the panel
* Create two objects on your artboard that overlap
  + Click Unite to unite the two objects and Ctrl+Z back.
  + Click Minus Front to remove the front object from the back object. Ctrl+Z back.
  + Click Intersect to reveal the intersection of the two objects. Ctrl+Z back.
  + Click Exclude to remove the intersection of the two objects. Ctrl+Z back.
  + Click divide to divide each section of the object and separate it into individual objects. Ctrl + Z.
  + Click trim to trim the front object from the back object. Ctrl + Z.
  + Click Merge to merge the two objects. Ctrl + Z.
  + Select crop to crop the objects from the outside and reveal just the interaction as a shape. Ctrl+Z.
  + Select outline to change the shapes to outlines.
  + Select Minus Back to remove the object behind the front object.