





DESIGN TECH SPG 24

UPDATED AFTER TUESDAY'S CLASS

**WEEK OF MAR 4** 

TUESDAY MAR 5  
THURSDAY MAR 7

•DUE: ASGMT #10: PEN TOOL   
  


•TODAY'S DEMO 1  
•CONTINUE >> ASGMT #11: SHAPES


•TODAY'S DEMO 2  
•ASGMT #12: PATHFINDER

•TODAY'S DEMO 3  
•ASGMT #13: SHAPE BUILDER & BLEND

•DUE NEXT CLASS

Google Drive >>

- ASGMT 1 - VECTOR-RASTER
- ASGMT 2 - ROSES ARENT JUST RED
- ASGMT 3 - MASKING MASH-UP
- ASGMT 4 - IN STITCHES 1 & 2
- ASGMT 5 - FIND YOUR BALANCE
- ASGMT 6 - TURN BACK TIME
- ASGMT 7 - A.I. FACE SWAP
- ASGMT 8 - CREEPY STORYTIME
- ASGMT 9 - PICTURE PERFECT
- ASGMT 10 - Pen Tool (Anchor Points + Bezier Curves)
- ASGMT 11 - Shapes
- ASGMT 12 - Pathfinder
- ASGMT 13 - Shape Builder and Blend
- ASGMT 14 - Vector Animals
- ASGMT 15 - Brushes + Color
- ASGMT 16 - Build Your Character(s)
- ASGMT 17 - Vector Warped Type
- ASGMT 18 - Gradient


•DUE: ASGMT #10: PEN TOOL

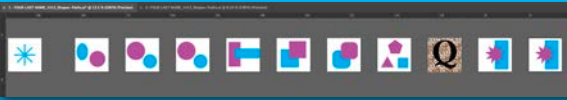
•TODAY'S DEMO 1  
•CONTINUE >> ASGMT #11: SHAPES

•TODAY'S DEMO 2  
•ASGMT #12: PATHFINDER


•TODAY'S DEMO 3  
•ASGMT #13: SHAPE BUILDER & BLEND

•DUE NEXT CLASS

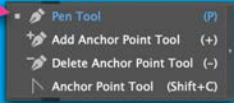
ASGMT 11 - Shapes



ASGMT 12 - Pathfinder



Select — Direct Select



Pen — 

Rotate —

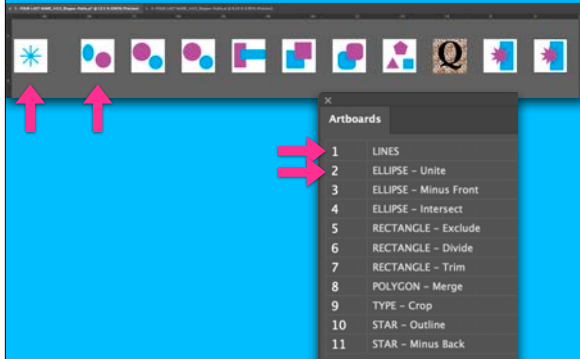
Zoom — Hand

Fill — Stroke

• NO FILL!  
• BLACK STROKE

 "None" Fill  
 White Fill

ASGMT 11 - Shapes



Artboards

- 1 LINES
- 2 ELLIPSE - Unite
- 3 ELLIPSE - Minus Front
- 4 ELLIPSE - Intersect
- 5 RECTANGLE - Exclude
- 6 RECTANGLE - Divide
- 7 RECTANGLE - Trim
- 8 POLYGON - Merge
- 9 TYPE - Crop
- 10 STAR - Outline
- 11 STAR - Minus Back


•DUE: ASGMT #10: PEN TOOL

•TODAY'S DEMO 1  
•CONTINUE >> ASGMT #11: SHAPES

•TODAY'S DEMO 2  
•ASGMT #12: PATHFINDER

•TODAY'S DEMO 3  
•ASGMT #13: SHAPE BUILDER & BLEND

•DUE NEXT CLASS

**DEMO #1** 

• Setting up Workspace  
• Artboards

• Review: Fill, Stroke, Stroke Weight  
Select, Direct Select

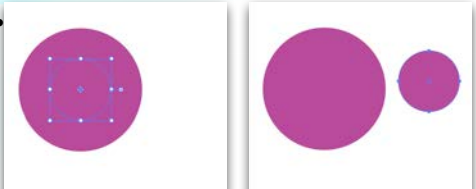
• **Basic Shapes:**

- Line | Rotate & Reflect
- **Ellipse (Circle)** | **Scale**
- Rectangle (Square) | Rounding Corners
- Polygon\* | Adding & Subtracting Sides
- Star\* | Free Transform
- Type as Shape

ASGMT 11 - Shapes



**DEMO Shapes**

- Go to the next artboard. **3 ELLIPSE - Minus Front**
- With the **Ellipse Tool**, draw a circle (Shift). Give it **no stroke** and a **color fill**.
- Select the circle. Choose the **Scale tool**. Type in **75%** and **Copy**.
  - *The circle might be in the other circle. Move it over.*




**DEMO Shapes**

- **Change the color** of one of the circles.
- Then do the following to copy both circles to another artboard:
  - **Select** one circle.
  - **Hold down Shift**.
  - **Select** the other circle.
  - **Release Shift** and both circles should be selected.
- Then **Edit : Copy**.
- Move to the next artboard **4 ELLIPSE - Intersect** and **Edit : Paste** the art here too.

**DEMO Shapes**


- **File : Save.**



**DEMO #1** **Ai**


- Setting up Workspace
- Artboards
- Review: Fill, Stroke, Stroke Weight  
Select, Direct Select
- **Basic Shapes:**
  - Line | Rotate & Reflect
  - Ellipse (Circle) | Scale
  - **Rectangle (Square)** | Rounding Corners
  - Polygon\* | Adding & Subtracting Sides
  - Star\* | Free Transform
  - Type as Shape

ASGMT 11 - Shapes




**DEMO Shapes**

- Go to the next artboard. **5 RECTANGLE - Exclude**
- With the **Rectangle Tool**, draw a rectangle like the template. Give it **no stroke** and a **color fill**.
- Draw a second rectangle. Give it **no stroke** and a **different color fill**.



**DEMO Shapes**


- **File : Save.**



**DEMO #1** **Ai**


- Setting up Workspace
- Artboards
- Review: Fill, Stroke, Stroke Weight  
Select, Direct Select
- **Basic Shapes:**
  - Line | Rotate & Reflect
  - Ellipse (Circle) | Scale
  - **Rectangle (Square)** | Rounding Corners
  - Polygon\* | Adding & Subtracting Sides
  - Star\* | Free Transform
  - Type as Shape

ASGMT 11 - Shapes




**DEMO Shapes**

- Go to the next artboard. **6 RECTANGLE - Divide**
- With the **Rectangle Tool** and holding down Shift, draw a square like the template. Give it **no stroke** and a **color fill**.
- Edit : Copy, Edit : Paste another square. Give it **no stroke** and a **different color fill**.




**DEMO Shapes**

- **File : Save.**



## DEMO #1

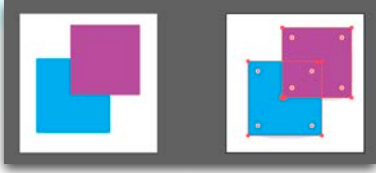


ASGMT 11 - Shapes

- Setting up Workspace
- Artboards
- Review: Fill, Stroke, Stroke Weight  
Select, Direct Select
- **Basic Shapes:**
  - Line | Rotate & Reflect
  - Ellipse (Circle) | Scale
  - **Rectangle (Square) | Rounding Corners**
  - Polygon\* | Adding & Subtracting Sides
  - Star\* | Free Transform
  - Type as Shape

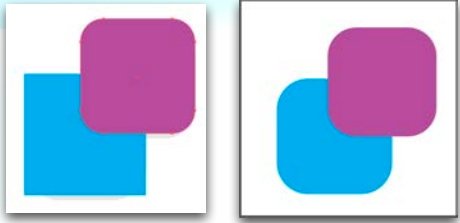
## DEMO Shapes

- Select both squares on **6** RECTANGLE - Divide like you did the circles earlier.
- Then Edit : Copy, Edit : Paste into the next artboard **7** RECTANGLE - Trim




## DEMO Shapes

- Zoom in and hover over a corner.
- Then pull in to curve the corners of the rectangle.
- Do for both shapes.




## DEMO Shapes

- File : Save.




## DEMO #1



ASGMT 11 - Shapes


- Setting up Workspace
- Artboards
- Review: Fill, Stroke, Stroke Weight  
Select, Direct Select
- **Basic Shapes:**
  - Line | Rotate & Reflect
  - Ellipse (Circle) | Scale
  - Rectangle (Square) | Rounding Corners
  - **Polygon\* | Adding & Subtracting Sides**
  - Star\* | Free Transform
  - Type as Shape

- Go to the next artboard. **8** POLYGON - Merge
- With the **Polygon Tool**, draw a polygon like the template. Give it **no stroke and a color fill**.




## DEMO Shapes

- Draw another polygon with the **Polygon Tool**, but also **click arrows** on keyboard before letting go of the drag.
- **Sides will be added and removed.**
- Make a **triangle** and a **square** this way, as the template shows.
- **Triangle:** no stroke, **same** fill as polygon.
- **Square:** no stroke, **different** color fill.




## DEMO Shapes

- File : Save.



## DEMO #1



ASGMT 11 - Shapes

- Setting up Workspace
- Artboards
- Review: Fill, Stroke, Stroke Weight  
Select, Direct Select
- **Basic Shapes:**
  - Line | Rotate & Reflect
  - Ellipse (Circle) | Scale
  - Rectangle (Square) | Rounding Corners
  - Polygon\* | Adding & Subtracting Sides
  - **Star\* | Free Transform**
  - Type as Shape

**DEMO Shapes**

- Skip an artboard and go to **10 STAR - Outline**
- Click the **Star Tool**, but also **click arrows** on keyboard before letting go of the drag. **Sides will be added and removed.**
- Draw a star like the template. Give it **no stroke and a color fill.**
- Adjust the size using **Free Transform**: Constrain to Scale.

**DEMO Shapes**

- Also draw a rectangle using the **Rectangle Tool**. Give it **no stroke and a different color fill.**

**DEMO Shapes**


- **File : Save.**

**DEMO Shapes**

- Select both shapes on **10 STAR - Outline** like you did the circles earlier.
- Then **Edit : Copy, Edit : Paste** into the next artboard **11 STAR - Minus Back**

**DEMO Shapes**

- **File : Save.**

**DEMO #1** 

- Setting up Workspace
- Artboards
- Review: Fill, Stroke, Stroke Weight, Select, Direct Select
- **Basic Shapes:**
  - Line | Rotate & Reflect
  - Ellipse (Circle) | Scale
  - Rectangle (Square) | Rounding Corners
  - Polygon\* | Adding & Subtracting Sides
  - Star\* | Free Transform
  - **Type as Shape**

**ASGMT 11 - Shapes**

**DEMO Shapes**

- Go back to artboard **9 TYPE - Crop**
- With the Type Tool **T**, type in **Q**.
- Open the **Character** palette quickly by using **Command + T**.
- Select the letter, then change the size to **400 pts**.
- Find a good font.

**DEMO Shapes**

- With the letter selected, go **Type : Create Outlines**.
- The letter will no longer be "live type" that calls to a font file. Instead, it is now a vector shape.

**DEMO Shapes**

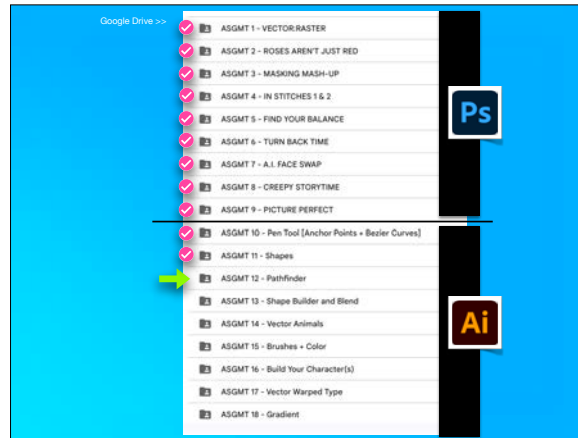
- **File : Save.**
- **Really. Make sure you've saved it. You're done with SHAPES.**

1. When finished with all parts of the assignment, upload to Google Drive : Assignments :

ASGMT 11 - Shapes

- ASGMT 11: Shapes
  - YOUR LAST NAME\_Shap.es.AI to Google
  - (Nothing to Slack)

2. Nothing to Slack.



•DUE: ASGMT #10: PEN TOOL

•TODAY'S DEMO 1

- CONTINUE >> ASGMT #11: SHAPES

•TODAY'S DEMO 2

- ASGMT #12: PATHFINDER

•TODAY'S DEMO 3

- ASGMT #13: SHAPE BUILDER & BLEND

•DUE NEXT CLASS

## DEMO #2



ASGMT 12 - Pathfinder

### • Pathfinder:

- Unite
- Minus Front
- Intersect
- Exclude
- Divide
- Trim
- Merge
- Crop
- Outline
- Minus Back

## DEMO #2 Pathfinder

- File : Save as  
YOUR LAST NAME\_1413\_Pathfinder.AI to the Desktop.



- Really. Did you really do it?
- Then hide the Template layer.



## DEMO #2 Pathfinder

- Window : Pathfinder



## DEMO #2



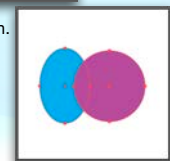
ASGMT 12 - Pathfinder

### • Pathfinder:

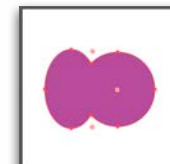
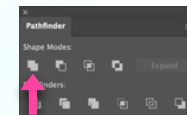
- **Unite**
- Minus Front
- Intersect
- Exclude
- Divide
- Trim
- Merge
- Crop
- Outline
- Minus Back

## DEMO #2 Pathfinder

- Go to the second artboard. 2 ELLIPSE - Unite
- Move the shapes over each as shown.




- Then select both shapes and click **Unite**.



**DEMO #2** Pathfinder

- File : Save.



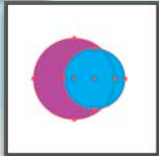
**DEMO #2** Ai

- Pathfinder:
  - Unite
  - Minus Front
  - Intersect
  - Exclude
  - Divide
  - Trim
  - Merge
  - Crop
  - Outline
  - Minus Back

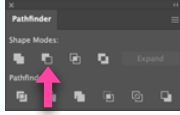

ASGMT 12 - Pathfinder

**DEMO #2** Pathfinder

- Go to the next artboard. 3 ELLIPSE - Minus Front
- Move the shapes over each as shown.




- Then select both shapes and click **Minus Front**.

**DEMO #2** Pathfinder

- File : Save.




**DEMO #2** Ai

- Pathfinder:
  - Unite
  - Minus Front
  - Intersect
  - Exclude
  - Divide
  - Trim
  - Merge
  - Crop
  - Outline
  - Minus Back

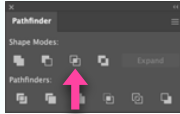
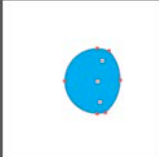
ASGMT 12 - Pathfinder

**DEMO #2** Pathfinder

- Go to the next artboard. 4 ELLIPSE - Intersect
- Move the shapes over each as shown.




- Then select both shapes and click **Intersect**.

**DEMO #2** Pathfinder

- File : Save.




**DEMO #2** Ai

- Pathfinder:
  - Unite
  - Minus Front
  - Intersect
  - Exclude
  - Divide
  - Trim
  - Merge
  - Crop
  - Outline
  - Minus Back

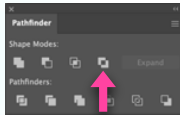

ASGMT 12 - Pathfinder

**DEMO #2** Pathfinder

- Go to the next artboard. 5 RECTANGLE - Exclude
- Move the shapes over each as shown.



- Then select both shapes and click **Exclude**.

**DEMO #2** Pathfinder

- **File : Save.**

**DEMO #2** Ai

- **Pathfinder:**
  - Unite
  - Minus Front
  - Intersect
  - Exclude
  - **Divide**
  - Trim
  - Merge
  - Crop
  - Outline
  - Minus Back

ASGMT 12 - Pathfinder

**DEMO #2** Pathfinder

- Go to the next artboard. 6 RECTANGLE - Divide
- Move the shapes over each as shown.
- Then select both shapes and click **Divide**.

You will use Divide the most of all the Pathfinders!

**DEMO #2** Pathfinder

- Then, with the shapes still selected, **Object : Ungroup.**
- Then deselect.
- Next, **select each shape** and move the separate shapes apart as shown here.

**DEMO #2** Pathfinder

- **File : Save.**

**DEMO #2** Ai

- **Pathfinder:**
  - Unite
  - Minus Front
  - Intersect
  - Exclude
  - Divide
  - **Trim**
  - Merge
  - Crop
  - Outline
  - Minus Back

ASGMT 12 - Pathfinder

**DEMO #2** Pathfinder

- Go to the next artboard. 7 RECTANGLE - Trim
- Move the shapes over each as shown.
- Then select both shapes and click **Trim**.

**DEMO #2** Pathfinder

- Then, with the shapes still selected, **Object : Ungroup.**
- Then deselect.
- Next, **select each shape** and move the separate shapes apart as shown here.

**DEMO #2** Pathfinder

- **File : Save.**

## DEMO #2

**Ai**

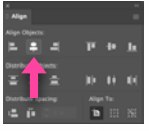
ASGMT 12 - Pathfinder

- **Pathfinder:**
  - Unite
  - Minus Front
  - Intersect
  - Exclude
  - Divide
  - Trim
  - **Merge**
  - Crop
  - Outline
  - Minus Back

## DEMO #2 Pathfinder

8 POLYGON - Merge

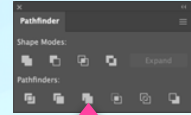
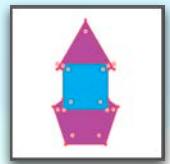
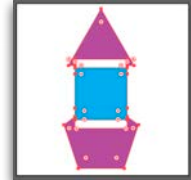
- Go to the next artboard.
- Move the shapes over each as shown.



- Window : **Align**  
Select all shapes and center them.

## DEMO #2 Pathfinder

- Then select both shapes and click **Merge**.

- Then, with the shapes still selected, **Object : Ungroup**. Then deselect.
- Next, **select each shape** and move the separate shapes apart as shown here.

## DEMO #2 Pathfinder

- **File : Save.**



## DEMO #2

**Ai**

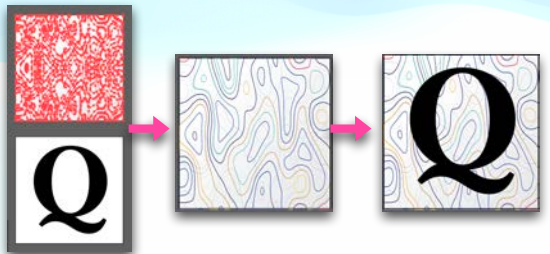
ASGMT 12 - Pathfinder

- **Pathfinder:**
  - Unite
  - Minus Front
  - Intersect
  - Exclude
  - Divide
  - Trim
  - Merge
  - **Crop**
  - Outline
  - Minus Back

## DEMO #2 Pathfinder

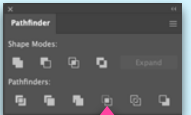


9 TYPE - Crop

- Go to the next artboard.
- Select the vector pattern above the artboard and pull it down. It will be above the letter.
- If the vector artwork is in front, go **Object : Arrange : Send to Back**.



## DEMO #2 Pathfinder

- Then hold down Shift to select the letter too. Then click **Crop**.
- Voila!

- **View : Outline** to see that it cropped the vector lines.
- **View : Preview** to see the artwork again.

## DEMO #2 Pathfinder

- **File : Save.**



## DEMO #2

**Ai**

ASGMT 12 - Pathfinder

- **Pathfinder:**
  - Unite
  - Minus Front
  - Intersect
  - Exclude
  - Divide
  - Trim
  - Merge
  - Crop
  - **Outline**
  - Minus Back

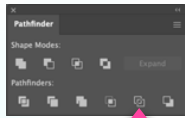


## DEMO #2 Pathfinder

- Go to the next artboard. **10 STAR - Outline**
- The shapes should be placed like this.



- Then select both shapes and click **Outline**.



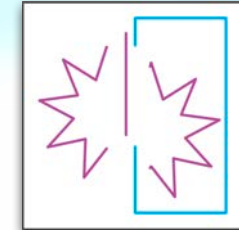
## DEMO #2 Pathfinder

- Increase the stroke weight to at least 5 pts.



## DEMO #2 Pathfinder

- Then, with the shapes still selected, **Object : Ungroup**.
- Then deselect.
- Next, **select each shape** and move the separate shapes apart, resembling what is shown here.



## DEMO #2 Pathfinder

- File : Save.**



## DEMO #2



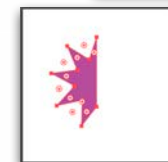
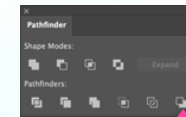
### Pathfinder:

- Unite
- Minus Front
- Intersect
- Exclude
- Divide
- Trim
- Merge
- Crop
- Outline
- Minus Back**

ASGMT 12 - Pathfinder

## DEMO #2 Pathfinder

- Go to the last artboard. **11 STAR - Minus Back**
- The shapes should be placed like this.
- Then select both shapes and click **Minus Back**.



## DEMO #2 Pathfinder

- File : Save.**

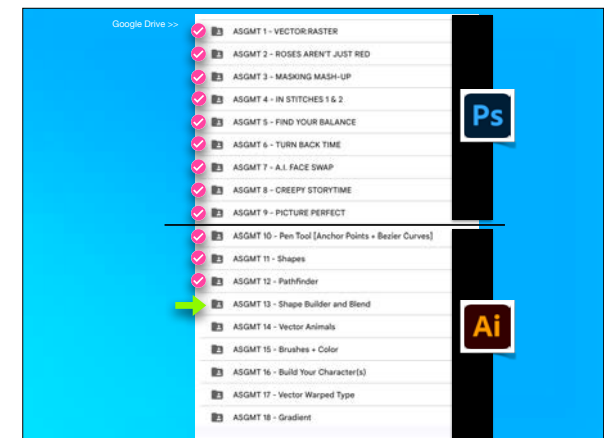


- When finished with all parts of the assignment, upload to Google Drive : Assignments :

ASGMT 12 - Pathfinder

- ASGMT 12: Pathfinder
  - YOUR LAST NAME\_Pathfinder.AI to Google
  - (Nothing to Slack)

- Nothing to Slack.



•DUE: ASGMT #10: PEN TOOL

- TODAY'S DEMO 1
  - CONTINUE >> ASGMT #11: SHAPES
- TODAY'S DEMO 2
  - ASGMT #12: PATHFINDER
- TODAY'S DEMO 3
  - ASGMT #13: SHAPE BUILDER & BLEND
- DUE NEXT CLASS

### DEMO #3

**Ai**

ASGMT 13 - Shape Builder and Blend

- Begin New Document
  - Free Transform Tool Review
  - Making a Grid
- Shape Builder Tool
- Blend Tool

Copy shapes from yesterday's SHAPES file. Also create a shape.

Move files to these positions. Make grid. Adjust size with Free Transform.

Shape Builder Tool      Blend Tool

### DEMO #3

**Ai**

ASGMT 13 - Shape Builder and Blend

- Begin New Document
  - Free Transform Tool Review
  - Making a Grid
- Shape Builder Tool
- Blend Tool

### DEMO Shape-Tools

- **Window** : Workspace : Essentials Classic
- **Illustrator** : Settings : General  Scale Strokes & Effects
- **Illustrator** : Settings : Units
  - General: Inches
  - Stroke: Points
  - Type: Points
- **File** : New
- Pull scroll to very bottom of right box until you get to **More Settings**. Click this box.

### DEMO Shape-Tools

- **File** : Save as **YOUR LAST NAME\_1413\_Shape-Tools.ai**

### DEMO Shape-Tools

### DEMO Shape-Tools


- **File** : **Open** your final SHAPES document from Monday. Not PATHFINDER, but SHAPES.
- **Edit** : Copy the shapes from these artboards to the new document's artboards as shown.

### DEMO Shape-Tools

- On **Artboard 2**, draw a square on the entire artboard. Give it a **purple Fill** and **white Stroke**.

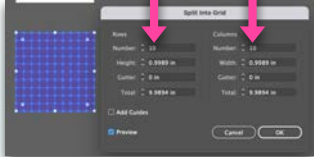

**DEMO Shape-Tools**

- Artboard 1 > **arrange as shown**.  
With shapes Selected, **Align** them.  
Window : Align > Horizontal Align Center.



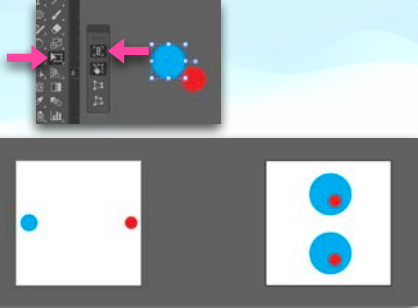
**DEMO Shape-Tools**

- On Artboard 2, Select the square you made. Make sure it's Purple Fill, White Stroke.
- Then go **Object : Path : Split into Grid**.
- Fill in **10 rows and 10 columns**. Then click OK.:


**DEMO Shape-Tools**

- Artboard 3 and 4 > **arrange as shown**.  
Use **Free Transform >> CONSTRAIN** so that it scales proportionally



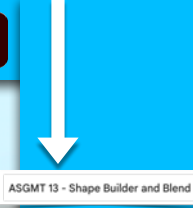
**DEMO Shape-Tools**

- **File : Save**.




**DEMO #3** 

- Begin New Document
  - Free Transform Tool Review
  - Making a Grid
- Shape Builder Tool
- Blend Tool



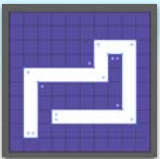
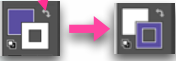
**DEMO Shape-Tools**

- Go to **Artboard 1**.
- Select the top 2 shapes.
- Click on the **Shape Builder Tool**.
- Click and drag between the two top shapes. Release. See the merged shape.



**DEMO Shape-Tools**

- Go to **Artboard 2**.
- Select all of the square by clicking and dragging.
- Click on the **Shape Builder Tool**.
- Click and drag to make something like this.
- When you release, select the new shape that has been made and **swap** the fill and stroke by clicking the arrows above them.


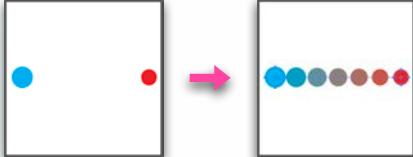
**DEMO #3** 

- Begin New Document
  - Free Transform Tool Review
  - Making a Grid
- Shape Builder Tool
- Blend Tool



**DEMO Shape-Tools**

- Go to **Artboard 3**.
- Double-Click on the **Blend Tool**. Do as shown:
- Click on 1 shape. Then click on the other.

**DEMO Shape-Tools**

- Go to **Artboard 4**.  
This first part will only affect the **top** object pair.
- Make sure you are still on **Blend tool**.  
Click on 1 shape. Then click on the other.

**DEMO Shape-Tools**

- Stay on **Artboard 4**.  
This second part will only affect the **bottom** object pair.
- Have nothing selected.**
- Double-Click on the **Blend Tool**.  
Do as shown:

**DEMO Shape-Tools**

- Click on 1 shape. Then click on the other.

**DEMO Shape-Tools**

- File : Save.**

**DEMO Shape-Tools**

- File : Save.**
- Then **File : Save As a PDF** also to your desktop.

ASGMT 13: Shape Builder and Blend

- YOUR LAST NAME\_Shape-Blend.AI to Google
- YOUR LAST NAME\_Shape-Blend.PDF to Slack

- When finished with all parts of the assignment, upload the .ai file to Google Drive : Assignments :  
ASGMT 13 - Shape Builder and Blend
- Upload the PDF to Slack # 1413\_mar-7

Prof. Nikki Arnell 3:50 PM  
When asked in class, upload the correctly named Shape-Tools PDF file to this post's THREAD.  
1 reply Today at 3:50 PM

- ASGMT 1 - VECTOR/RASTER
- ASGMT 2 - ROSES AREN'T JUST RED
- ASGMT 3 - MASKING MASH-UP
- ASGMT 4 - IN STITCHES 1 & 2
- ASGMT 5 - FIND YOUR BALANCE
- ASGMT 6 - TURN BACK TIME
- ASGMT 7 - A.I. FACE SWAP
- ASGMT 8 - CREEPY STORYTIME
- ASGMT 9 - PICTURE PERFECT
- ASGMT 10 - Pen Tool (Anchor Points + Bezier Curves)**
- ASGMT 11 - Shapes
- ASGMT 12 - Pathfinder
- ASGMT 13 - Shape Builder and Blend**
- ASGMT 14 - Vector Animals
- ASGMT 15 - Brushes + Color
- ASGMT 16 - Build Your Character(s)
- ASGMT 17 - Vector Warped Type
- ASGMT 18 - Gradient

•DUE: ASGMT #10: PEN TOOL

•TODAY'S DEMO 1  
•CONTINUE >> ASGMT #11: SHAPES

•TODAY'S DEMO 2  
•ASGMT #12: PATHFINDER

•TODAY'S DEMO 3  
•ASGMT #13: SHAPE BUILDER AND BLEND

•DUE NEXT CLASS