

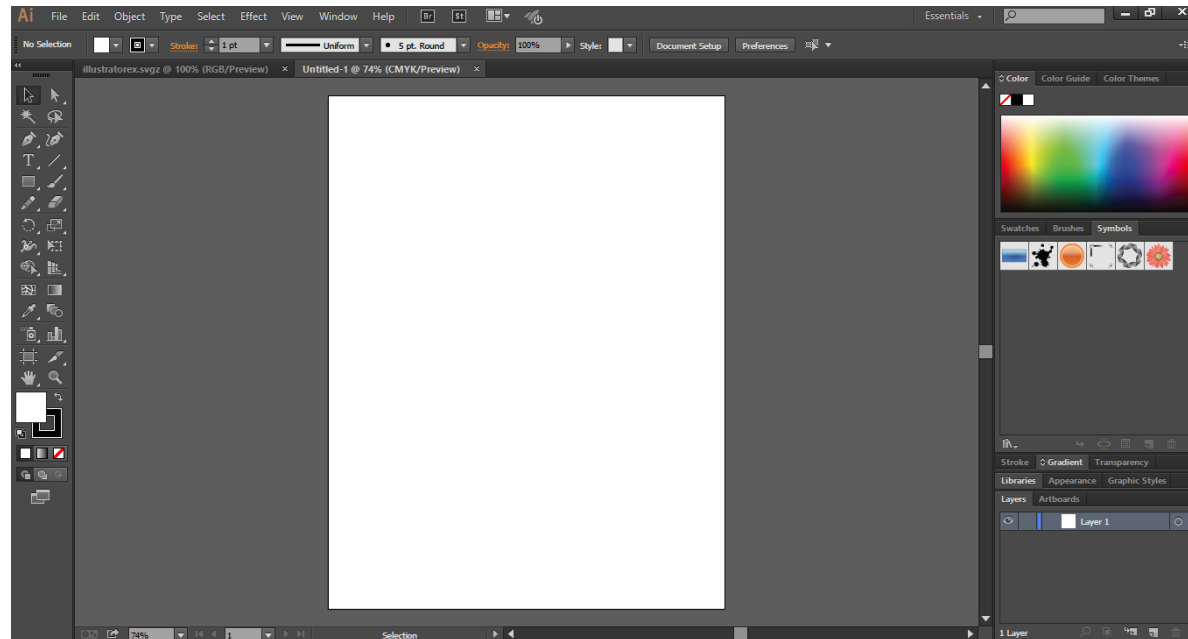
ITEC185

Introduction to Digital Media

ADOBE ILLUSTRATOR CC 2015

What is Adobe Illustrator?

- Adobe Illustrator is a program used by both artists and graphic designers to create vector images.
- These images will then be used for company logos, promotional uses or even personal work, both in print and digital form.
- Adobe Illustrator is typically used to create illustrations, charts, graphs, logos, diagrams, cartoons of real photographs, and more.



Vector Graphics

- Illustrator is an ideal program to create vector graphics because it includes tools and features designed for vector use.
- Vector graphics are made up of points, lines, and curves defined by mathematical equations.
- Since vector graphics are resolution independent, you can freely modify them without losing detail or clarity.
- Raster images, on the other hand, use a rectangular grid of picture elements (pixels) to represent images.



Vector Graphic Zoomed at 1600%

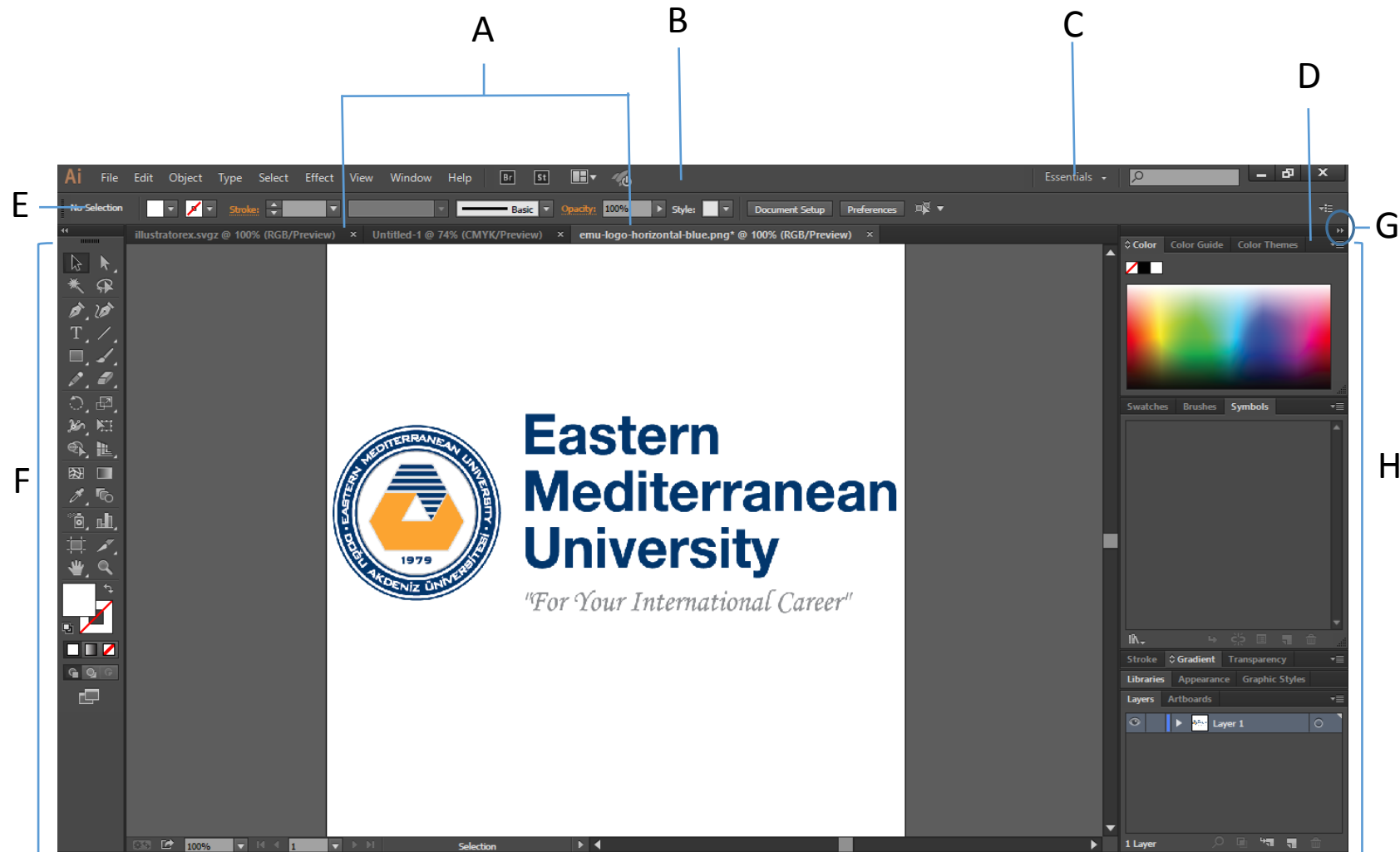


Raster Image Zoomed at 1600%

Workspace

Default Illustrator workspace :

- A. Tabbed Document windows
- B. Application bar
- C. Workspace switcher
- D. Panel title bar
- E. Control panel
- F. Tools panel
- G. Collapse To Icons button
- H. Four panel groups in vertical dock



Workspace

- The **Application bar** across the top contains a workspace switcher, menus (Windows only), and other application controls. On the Mac for certain products, you can show or hide it using the Window menu.
- The **Tools panel** contains tools for creating and editing images, artwork, page elements, and so on. Related tools are grouped.
- The **Control panel** displays options for the currently selected tool. In Illustrator, the Control panel displays options for the currently selected object. (In Adobe Photoshop® this is known as the Options bar. In Adobe Flash®, Adobe Dreamweaver®, and Adobe Fireworks® this is known as the Property Inspector and includes properties of the currently selected element.)
- The **Document window** displays the file you're working on. Document windows can be tabbed and, in certain cases, grouped and docked.

Workspace

- **Panels** help you monitor and modify your work. Examples include the Timeline in Flash, the Brush panel in Illustrator, the Layers panel in Adobe Photoshop®, and the CSS Styles panel in Dreamweaver. Panels can be grouped, stacked, or docked.
- The **Application frame** groups all the workspace elements in a single, integrated window that lets you treat the application as a single unit. When you move or resize the Application frame or any of its elements, all the elements within it respond to each other so none overlap. Panels don't disappear when you switch applications or when you accidentally click out of the application. If you work with two or more applications, you can position each application side by side on the screen or on multiple monitors.

Tools

Tool Galleries :

Selection tool gallery

Drawing tool gallery

Type tool gallery

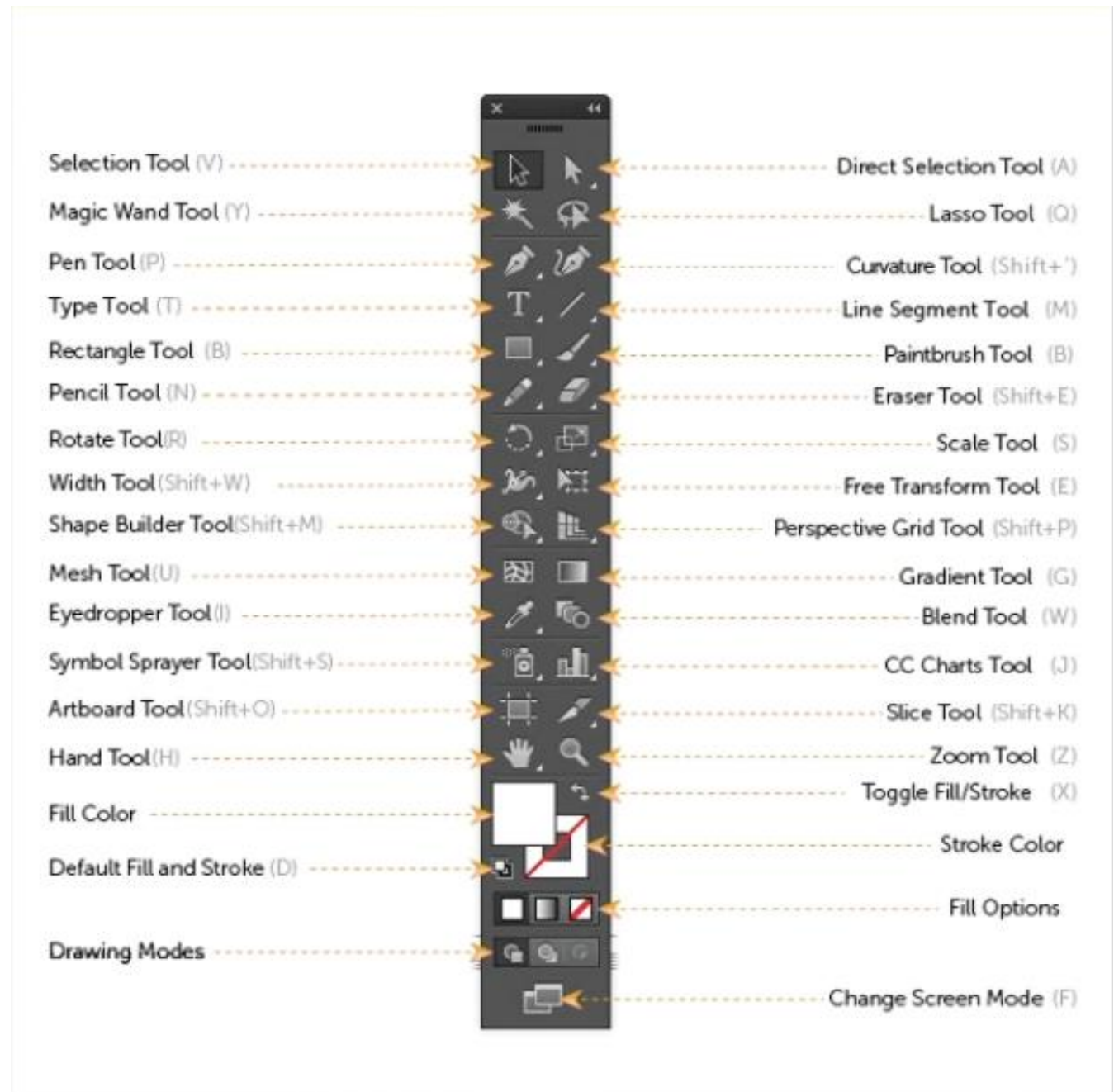
Painting tool gallery

Reshaping tool gallery

Symbolism tool gallery

Graph tool gallery


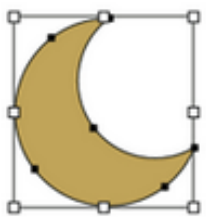



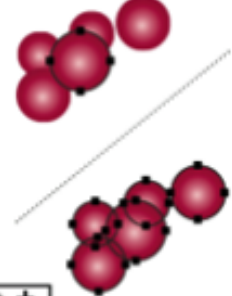






Moving and zooming tool gallery



Tools

Tool Galleries :

Selection tool gallery

  <p><i>The Selection tool (V) selects entire objects.</i></p>	  <p><i>The Direct Selection tool (A) selects points or path segments within objects.</i></p>	  <p><i>The Group Selection tool selects objects and groups within groups.</i></p>	  <p><i>The Magic Wand tool (Y) selects objects with similar attributes.</i></p>
  <p><i>The Lasso tool (Q) selects points or path segments within objects.</i></p>	  <p><i>The Artboard tool creates separate artboards for printing or export.</i></p>		

Tools

Tool Galleries :

Selection tool gallery

Drawing tool gallery



The Pen tool (P) draws straight and curved lines to create objects.



The Add Anchor Point tool (+) adds anchor points to paths.



The Delete Anchor Point tool (-) deletes anchor points from paths.



The Convert Anchor Point tool (Shift+C) changes smooth points to corner points and vice versa.



The Line Segment tool (L) draws individual straight line segments.



The Arc tool draws individual concave or convex curve segments.



The Spiral tool draws clockwise and counterclockwise spirals.



The Rectangular Grid tool draws rectangular grids.

Tools

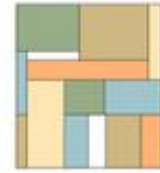
Tool Galleries :

Selection-tool-gallery

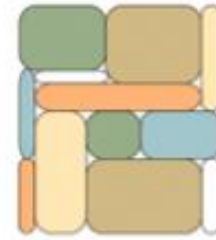
Drawing tool gallery



The Polar Grid tool draws circular chart grids.



The Rectangle tool (M) draws squares and rectangles.



The Rounded Rectangle tool draws squares and rectangles with rounded corners.



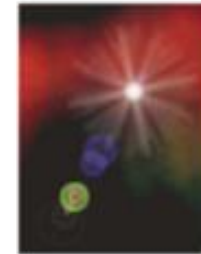
The Ellipse tool (L) draws circles and ovals.



The Polygon tool draws regular, multi-sided shapes.



The Star tool draws stars.



The Flare tool creates lens-flare or solar-flare-like effects.






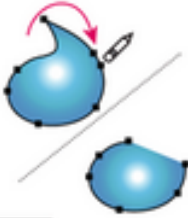




The Pencil tool (N) draws and edits freehand lines.

Tools

Tool Galleries :

Selection tool gallery

Drawing tool gallery

  <p><i>The Smooth tool smooths Bezier paths.</i></p>	  <p><i>The Path Eraser tool erases paths and anchor points from the object.</i></p>	  <p><i>The Perspective Grid allows creating and rendering artwork in perspective.</i></p>	  <p><i>The Perspective Selection tool allows you to bring objects, text, and symbols in perspective, move objects in perspective, move objects in perpendicular to its current direction.</i></p>
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Tools

Tool Galleries :

Selection tool gallery

Drawing tool gallery

Type tool gallery

 <p>T</p> <p><i>The Type tool (T) creates individual type and type containers and lets you enter and edit type.</i></p>	 <p>T</p> <p><i>The Area Type tool changes closed paths to type containers and lets you enter and edit type within them.</i></p>	 <p>T</p> <p><i>The Type On A Path tool changes paths to type paths, and lets you enter and edit type on them.</i></p>	 <p>T</p> <p><i>The Vertical Type tool creates vertical type and vertical type containers and lets you enter and edit vertical type.</i></p>
 <p>T</p> <p><i>The Vertical Area Type tool changes closed paths to vertical type containers and lets you enter and edit type within them.</i></p>	 <p>T</p> <p><i>The Vertical Type On A Path tool changes paths to vertical type paths and lets you enter and edit type on them.</i></p>		

Tools

Tool Galleries :

Selection tool gallery

Drawing tool gallery

Type tool gallery

Painting tool gallery



The Paintbrush tool (B) draws freehand and calligraphic lines, as well as art, patterns, and bristle brush strokes on paths.



The Live Paint Bucket tool (K) paints faces and edges of Live Paint groups with the current paint attributes.



The Mesh tool (U) creates and edits meshes and mesh envelopes.



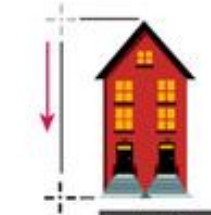
The Live Paint Selection (Shift-L) tool selects faces and edges within Live Paint groups.



The Gradient tool (G) adjusts the beginning and ending points and angle of gradients within objects, or applies a gradient to objects.



The Measure tool measures the distance between two points.



The Eyedropper tool (I) samples and applies color, type, and appearance attributes, including effects, from objects.



The Blob Brush tool (Shift-B) draws paths that automatically expand and merge calligraphic brush paths that share the same color and are adjacent in stacking order.



Tools

Tool Galleries :

Selection tool gallery

Drawing tool gallery

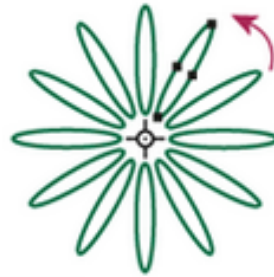
Type tool gallery

Painting tool gallery

Reshaping tool gallery



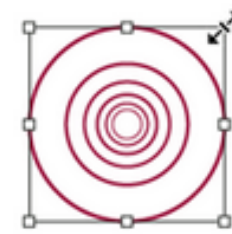
The Rotate tool (R) rotates objects around a fixed point.



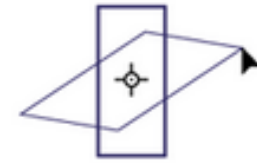
The Reflect tool (O) flips objects over a fixed axis.



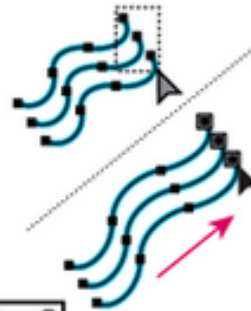
The Scale tool (S) resizes objects around a fixed point.



The Shear tool skews objects around a fixed point.



The Reshape tool adjusts selected anchor points while keeping the overall detail of the path intact.



The Free Transform tool (E) scales, rotates, or skews a selection.



The Blend tool (W) creates a series of objects blended between the color and shape of multiple objects.



The Width tool (Shift+W) allows you to create a stroke with variable width.



Tools

Tool Galleries :

Selection tool gallery

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Reshaping tool gallery



The Warp tool (Shift+R) molds objects with the movement of the cursor (like molding clay, for example).



The Twirl tool creates swirling distortions within an object.



The Pucker tool deflates an object by moving control points towards the cursor.



The Bloat tool inflates an object by moving control points away from the cursor.



The Scallop tool adds random curved details to the outline of an object.



The Crystallize tool adds random spiked details to the outline of an object.



The Wrinkle tool adds wrinkle-like details to the outline of an object.



The Shape Builder tool merges simple shapes to create custom, complex shapes.

Tools

Tool Galleries :

Selection tool gallery

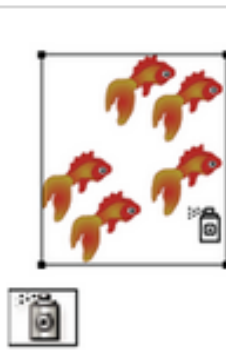
Drawing tool gallery

Type tool gallery

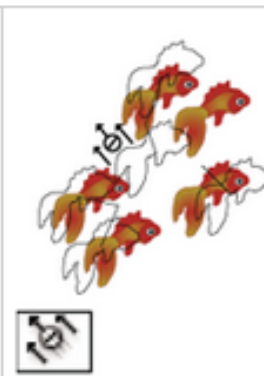
Painting tool gallery

Reshaping tool gallery

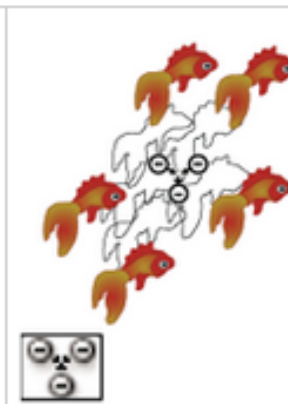
Symbolism tool gallery



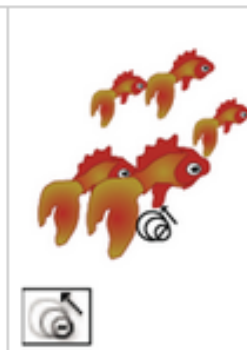
The Symbol Sprayer tool (Shift+S) places multiple symbol instances as a set on the artboard.



The Symbol Shifter tool moves symbol instances and change stacking order.



The Symbol Scruncher tool moves symbol instances closer together or farther apart.



The Symbol Sizer tool resizes symbol instances.



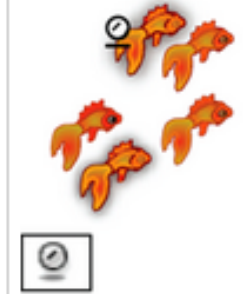
The Symbol Spinner tool rotates symbol instances.



The Symbol Stainer tool colorizes symbol instances.



The Symbol Screener tool applies opacity to symbol instances.



The Symbol Styler tool applies the selected style to symbol instances.

Tools

Tool Galleries :

Selection tool gallery

Drawing tool gallery


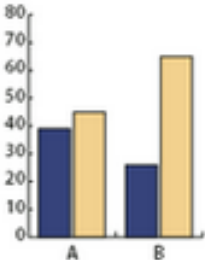

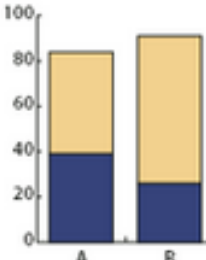

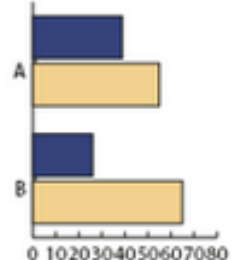

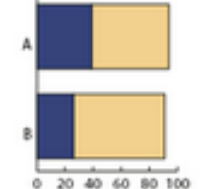
Type tool gallery

Painting tool gallery

Reshaping tool gallery

Symbolism tool gallery

Graph tool gallery

  <p><i>The Column Graph tool (J) creates graphs that compare values using vertical columns.</i></p>	  <p><i>The Stacked Column Graph tool creates graphs that are similar to column graphs, but stacks the columns on top of one another, instead of side by side. This graph type is useful for showing the relationship of parts to the total.</i></p>	  <p><i>The Bar Graph tool creates graphs that are similar to column graphs, but positions the bars horizontally instead of vertically.</i></p>	  <p><i>The Stacked Bar Graph tool creates graphs that are similar to stacked column graphs, but stacks the bars horizontally instead of vertically.</i></p>
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Tools

Tool Galleries :

Selection tool gallery

Drawing tool gallery

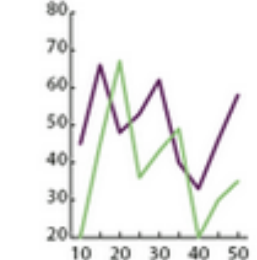

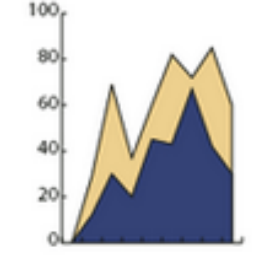

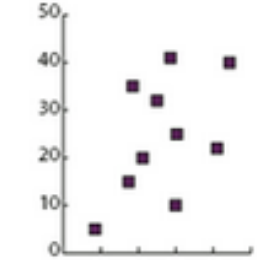


Type tool gallery

Painting tool gallery

Reshaping tool gallery

Symbolism tool gallery

Graph tool gallery

 	 	 	
<p><i>The Line Graph tool creates graphs that use points to represent one or more sets of values, with a different line joining the points in each set. This type of graph is often used to show the trend of one or more subjects over a period of time.</i></p>	<p><i>The Area Graph tool creates graphs that are similar to line graphs, but emphasizes totals as well as changes in values.</i></p>	<p><i>The Scatter Graph tool creates graphs that plot data points as paired sets of coordinates along the x and y axes. Scatter graphs are useful for identifying patterns or trends in data. They also can indicate whether variables affect one another.</i></p>	<p><i>The Pie Graph tool creates circular graphs whose wedges represent the relative percentages of the values compared.</i></p>

Tools

Tool Galleries :

Selection tool gallery

Drawing tool gallery

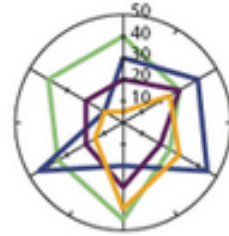
Type tool gallery

Painting tool gallery

Reshaping tool gallery

Symbolism tool gallery

Graph tool gallery



The Radar Graph tool creates graphs that compare sets of values at given points in time or in particular categories, and is displayed in a circular format. This type of graph is also called a web graph.

Tools

Tool Galleries :

Selection tool gallery

Drawing tool gallery

Type tool gallery

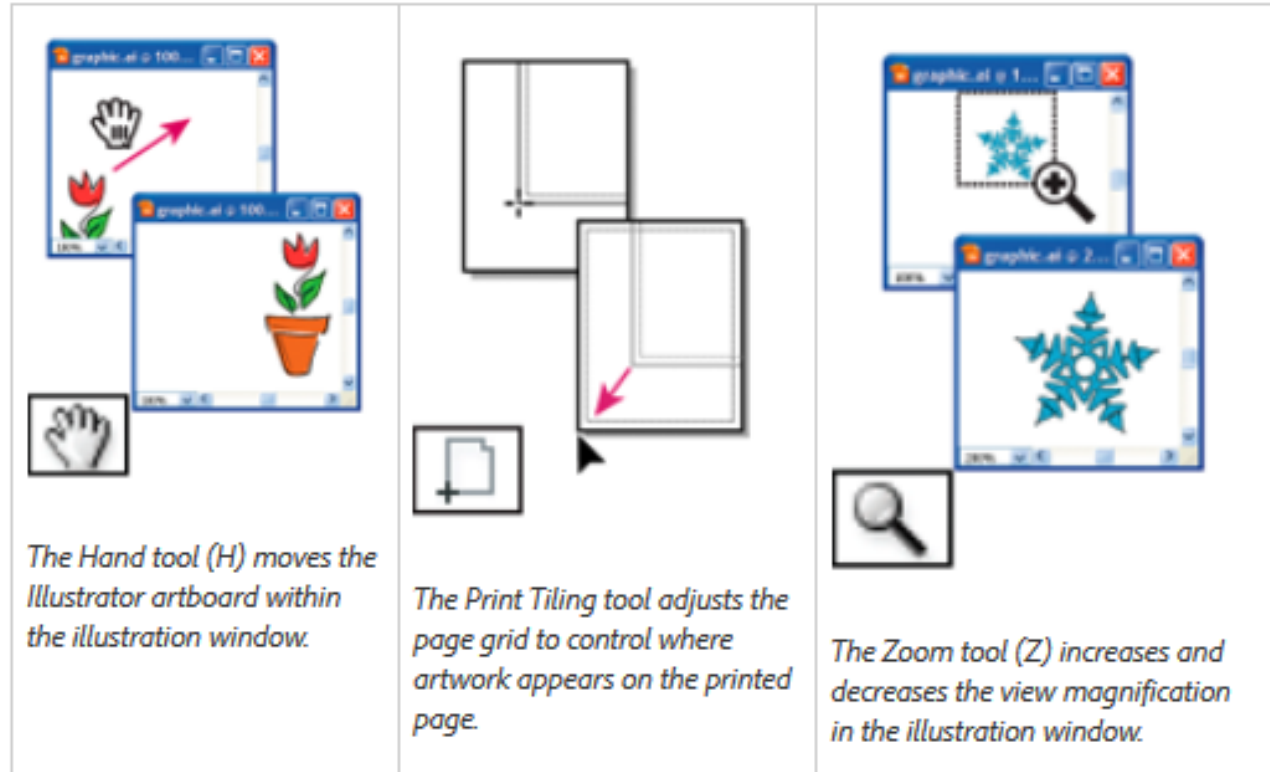
Painting tool gallery

Reshaping tool gallery

Symbolism tool gallery

Graph tool gallery

Moving and zooming tool gallery

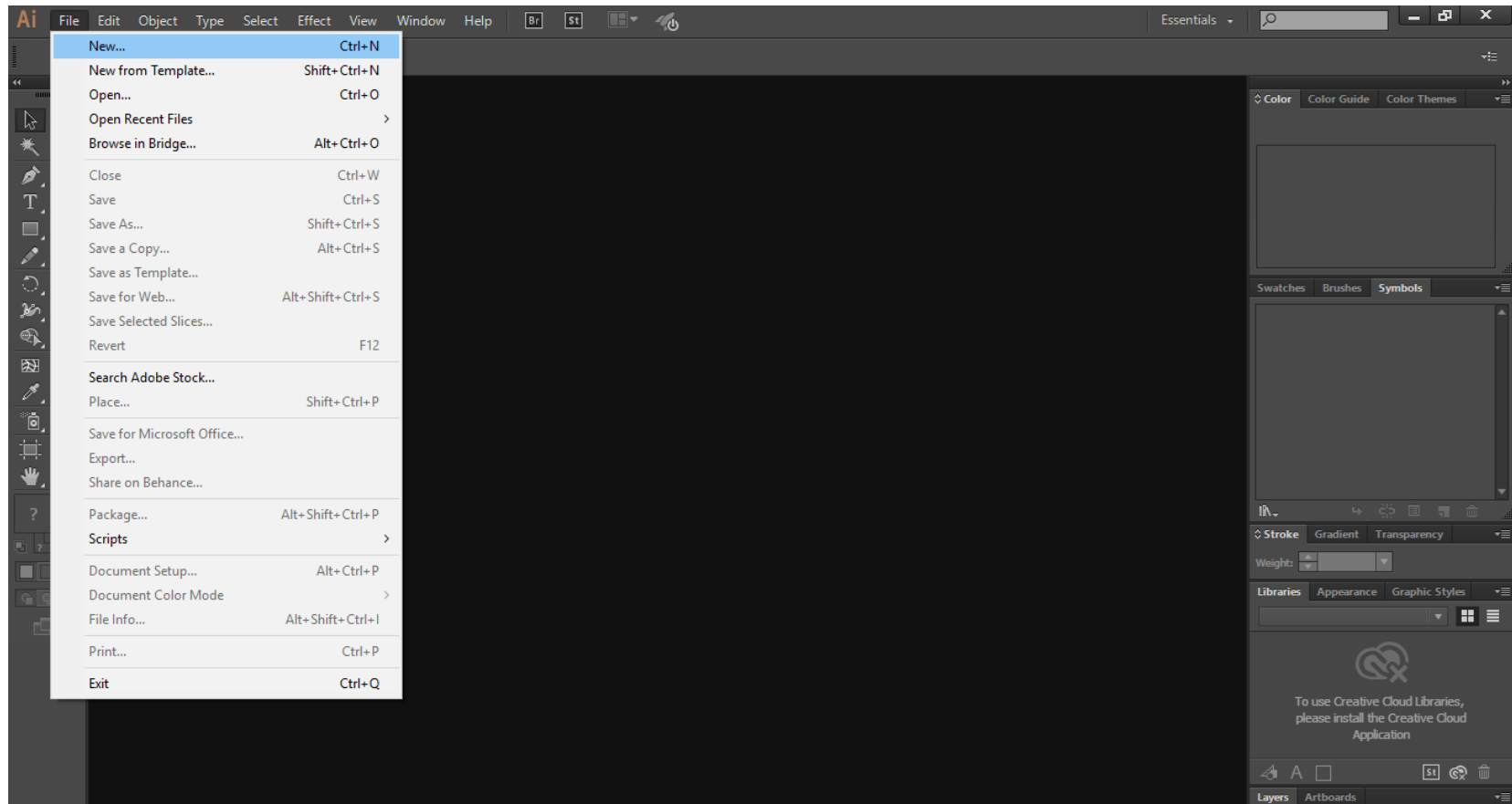


Creating A New Document

- An Illustrator document can contain up to 100 artboards (artboards are similar to pages in a program like Adobe InDesign®).
- Next, you will create a document with only one artboard.

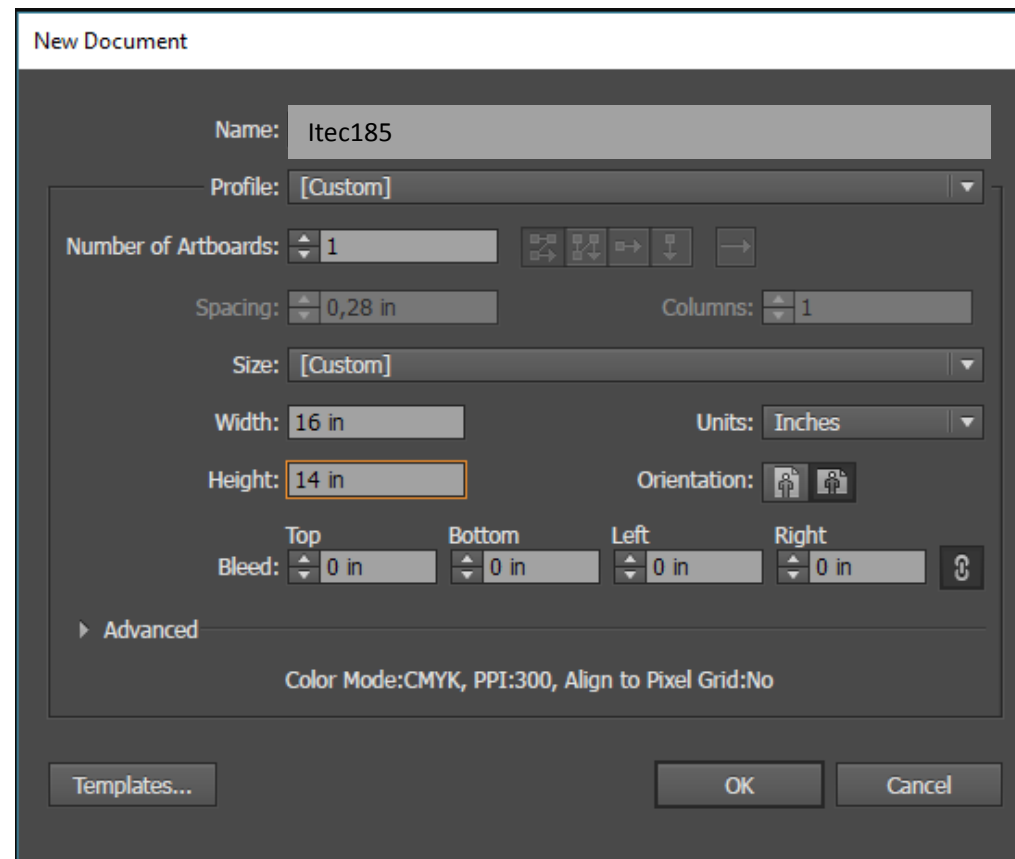
Creating A New Document

- Choose File > New.



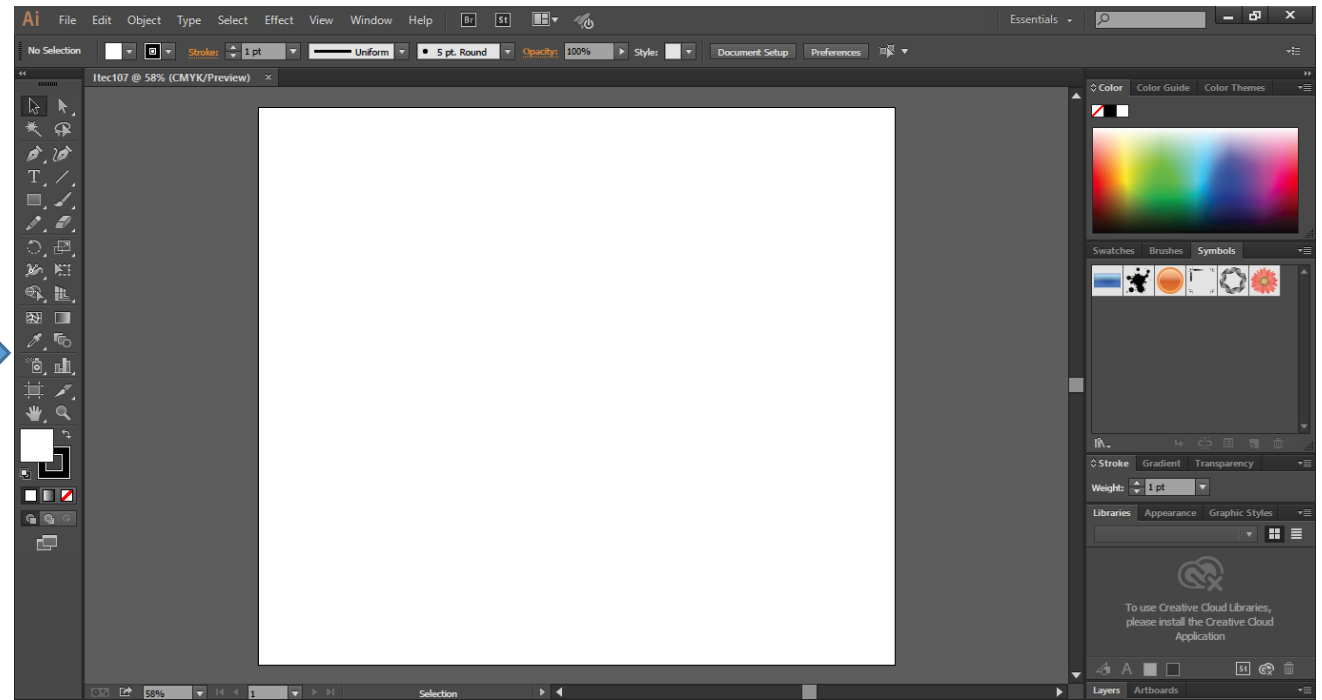
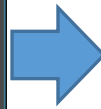
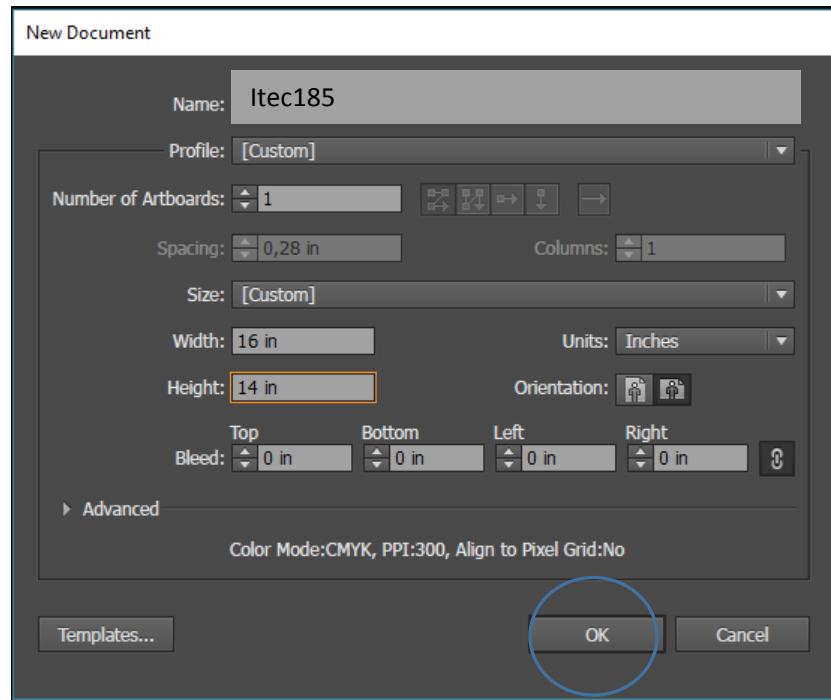
Creating A New Document

- In the New Document dialog box, change only the following options (leaving the rest at their default settings):
 - **Name:** Itec185
 - **Units:** Inches
 - **Width:** 16 in
 - **Height:** 14 in



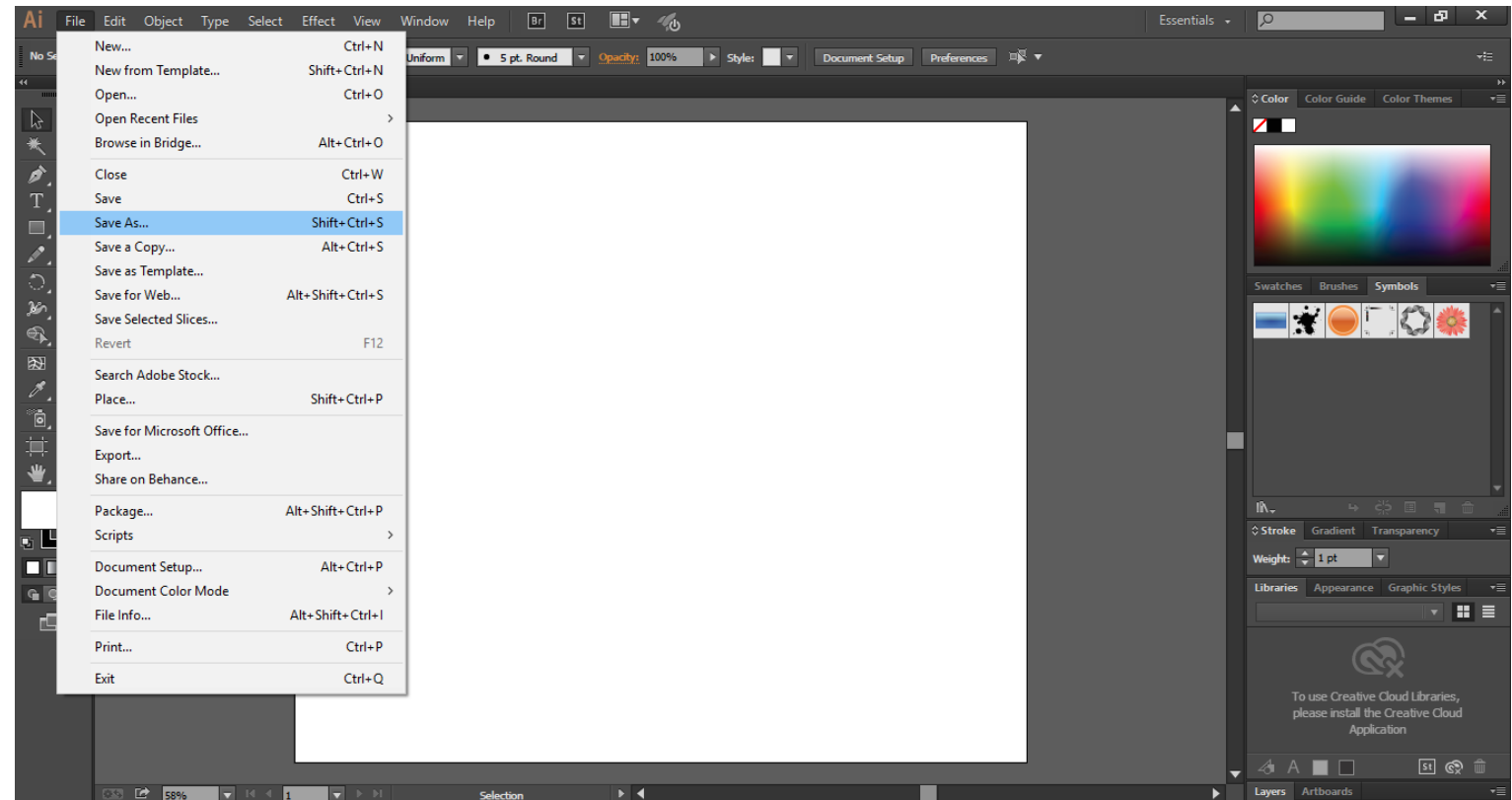
Creating A New Document

- Click OK.
- A new blank document appears.



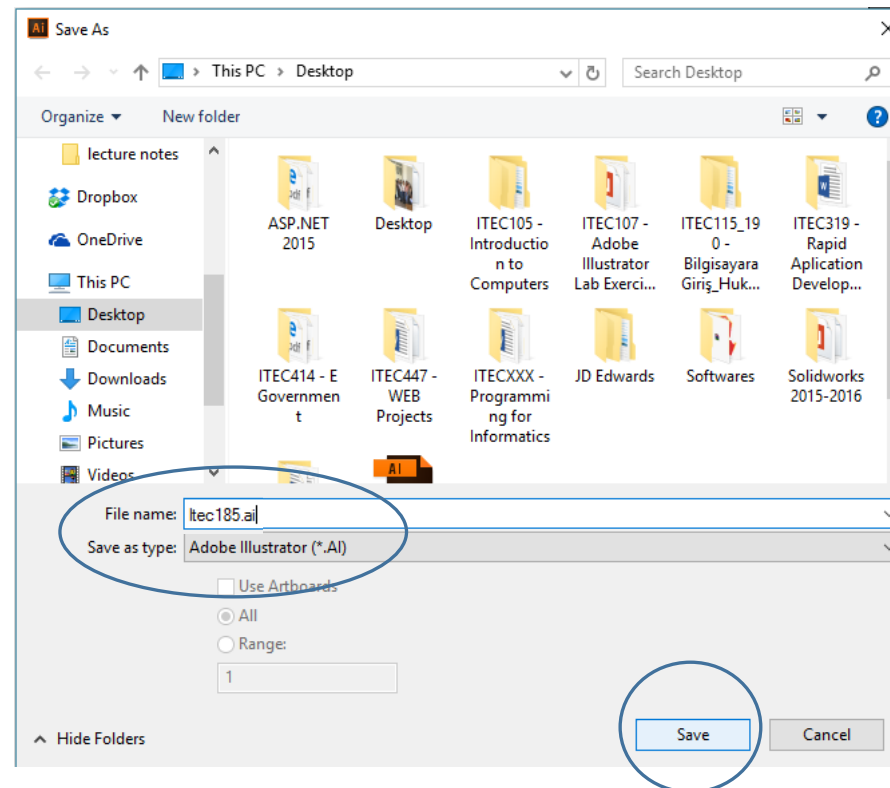
Creating A New Document

- Create a folder on T:/ drive and give your folder a name (preferably your student number).
- Go back to Adobe Illustrator.
- Choose File > Save As.



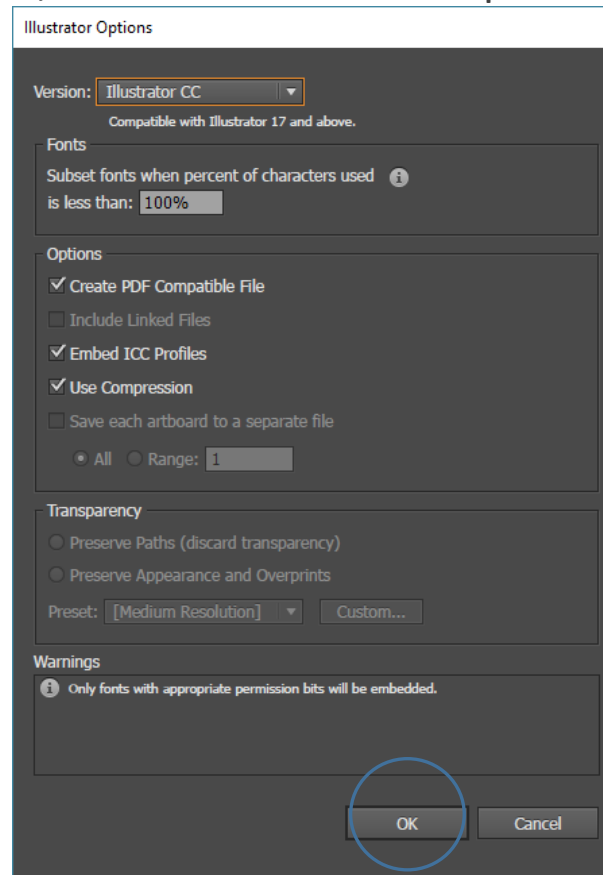
Creating A New Document

- In the Save As dialog box, leave the name as *Itec185.ai* and navigate to the T > YourFolder*.
- Leave the Format option set to Adobe Illustrator (ai) (Mac OS) or Save As Type option set to Adobe Illustrator (*.AI) (Windows), and click Save.



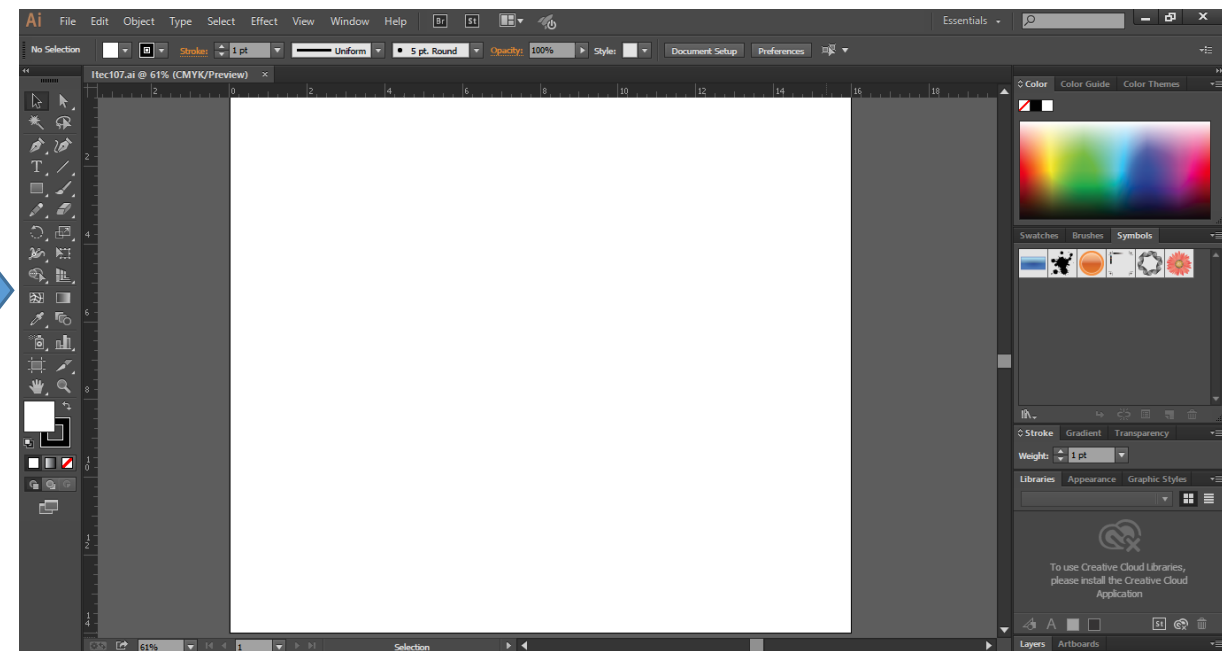
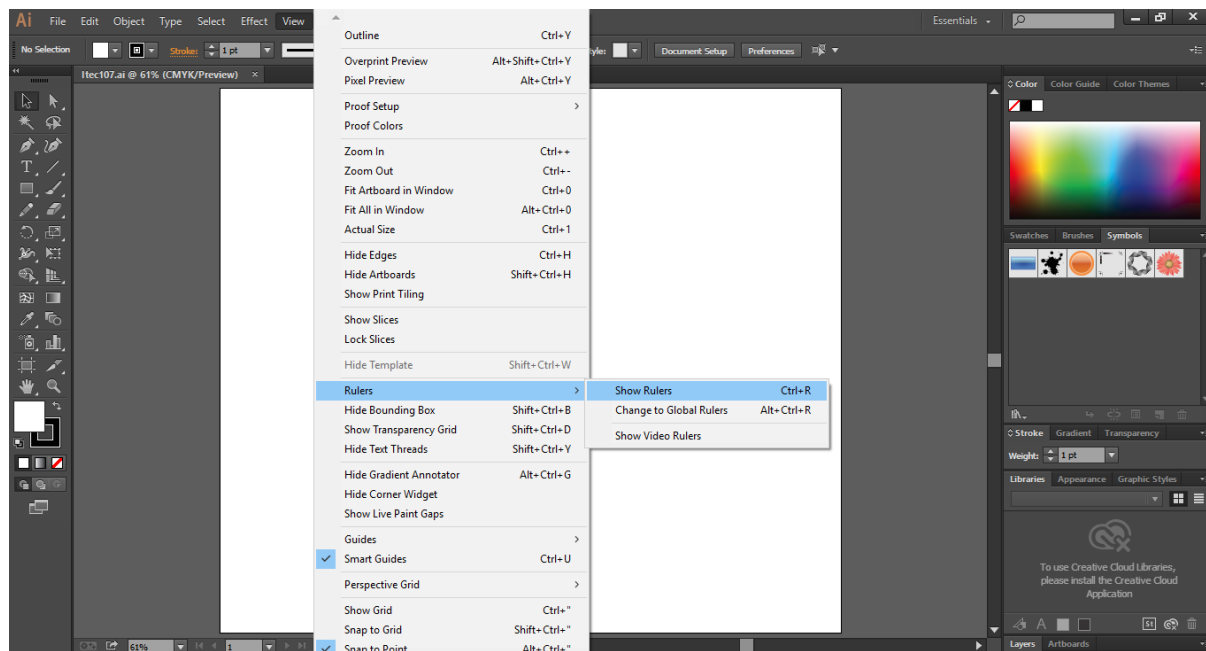
Creating A New Document

- In the Illustrator Options dialog box, leave the Illustrator options at their default settings, and then click OK.



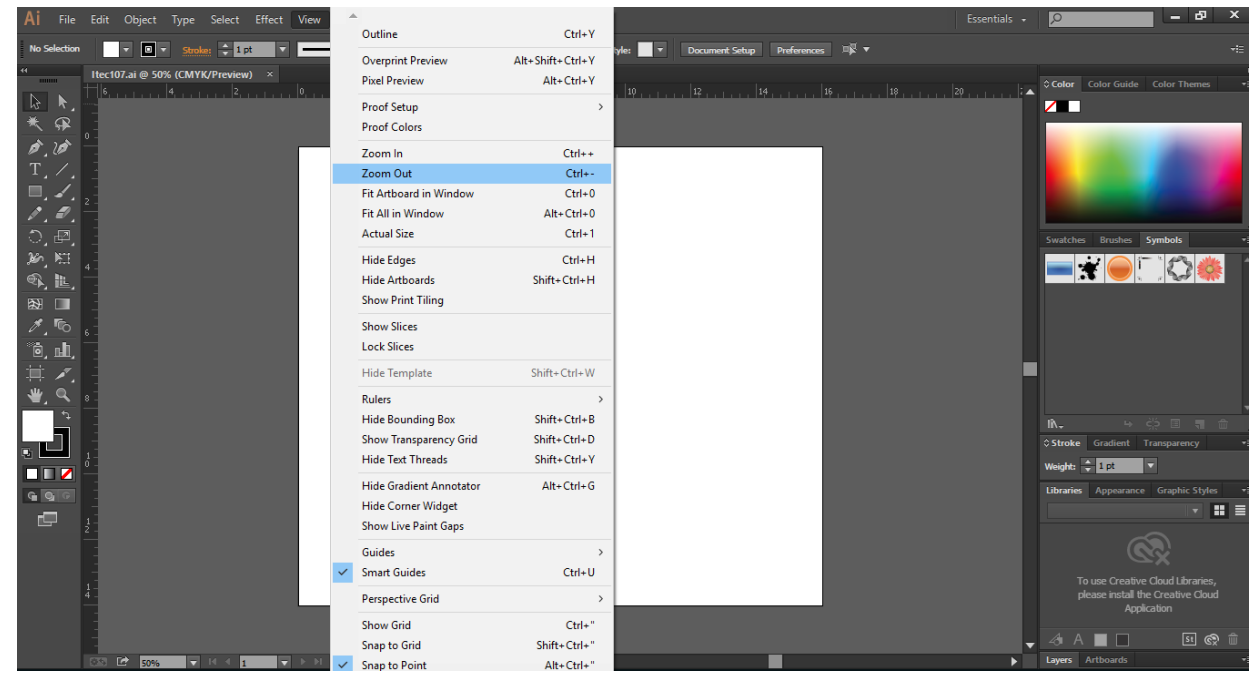
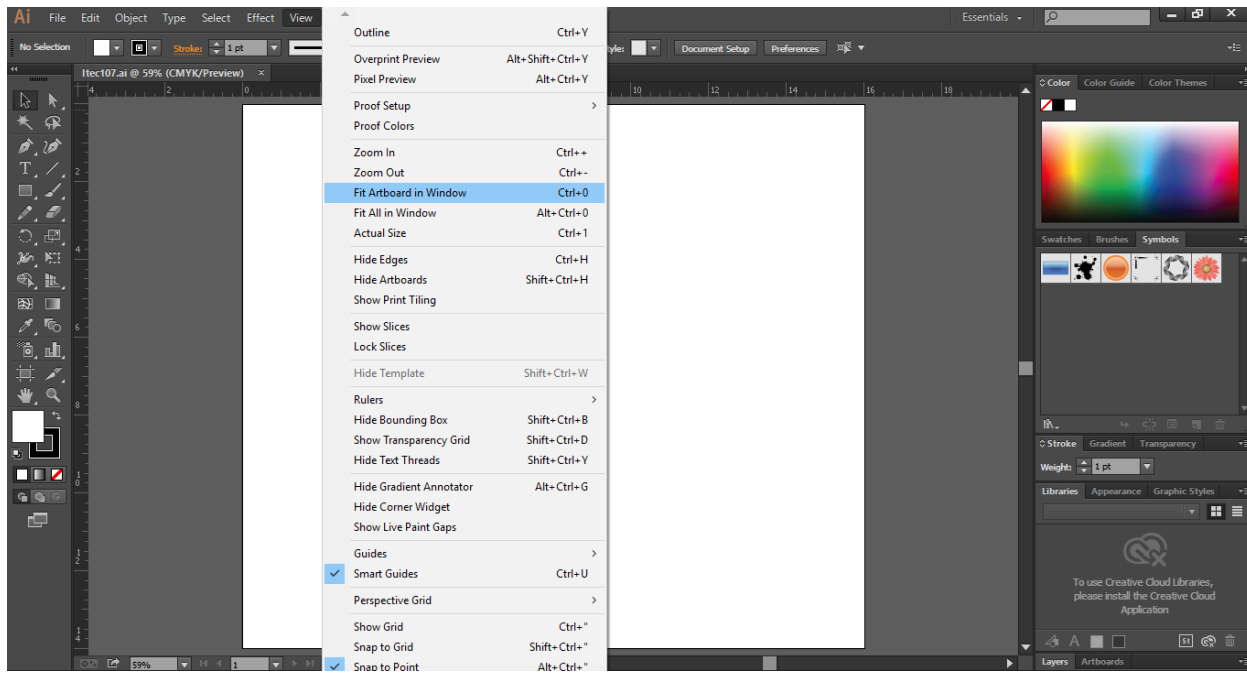
Rulers

- Choose View > Rulers > Show Rulers to show rulers in the Document window.



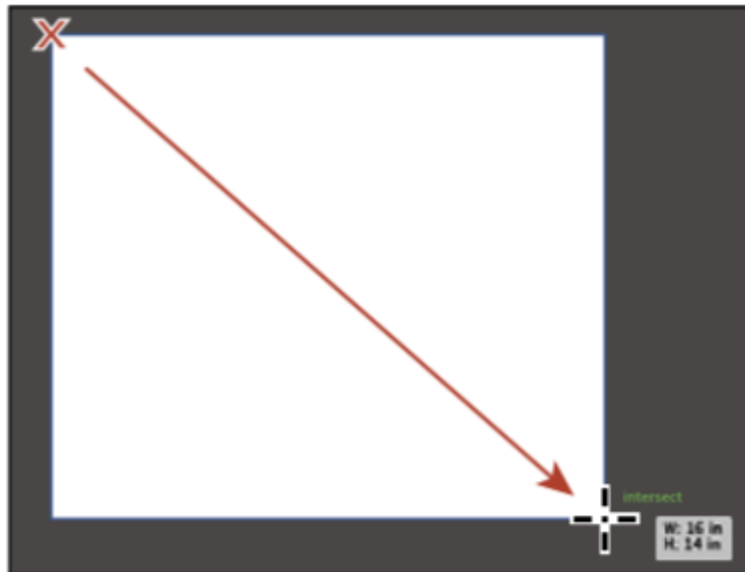
Fit Artboard In Window & Zoom Out

- Choose View > Fit Artboard In Window, and then choose View > Zoom Out.
- The white area is the artboard, and where your printable artwork will go.



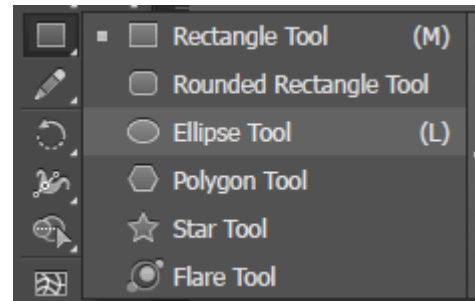
Drawing shapes

- Select the Rectangle tool (■) in the Tools panel on the left.
- Position the pointer in the upper-left corner of the artboard (see the red X in the figure).
- When the word “intersect” appears next to the pointer, click and drag down and to the right edge of the white artboard.
- When the gray measurement label shows a width of 16 in and a height of 14 in, release the mouse button.

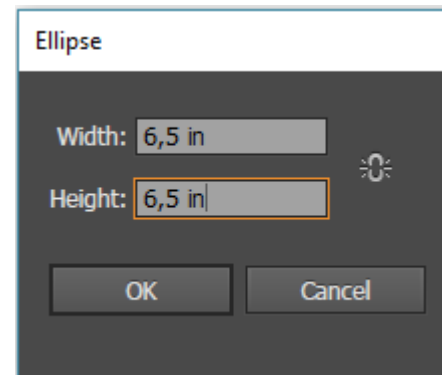


Drawing shapes

- Click and hold down on the Rectangle tool in the Tools panel.
- Click to select the Ellipse tool (○).

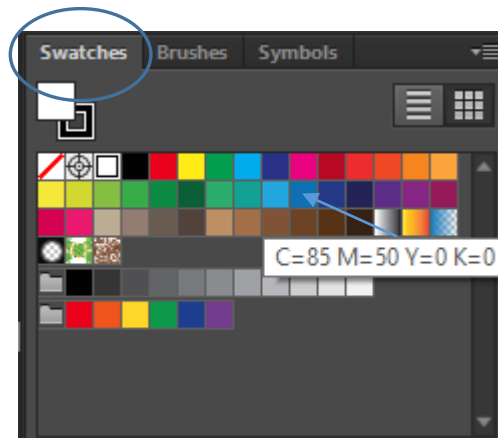


- Click roughly in the center of the artboard to open the Ellipse dialog box.
- Change the *Width* to *6.5 in* and the *Height* value to *6.5 in* by typing in the values.
- Click OK to create a circle that will become the world.
- Leave the circle selected.



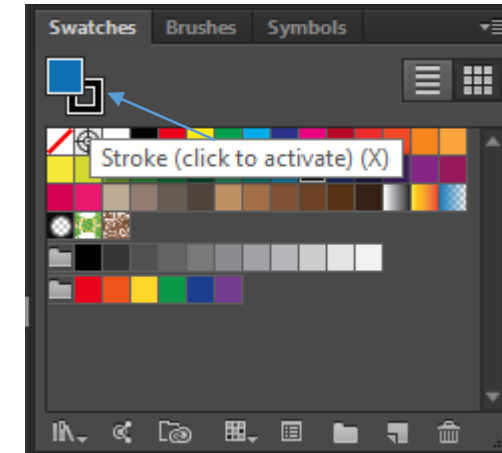
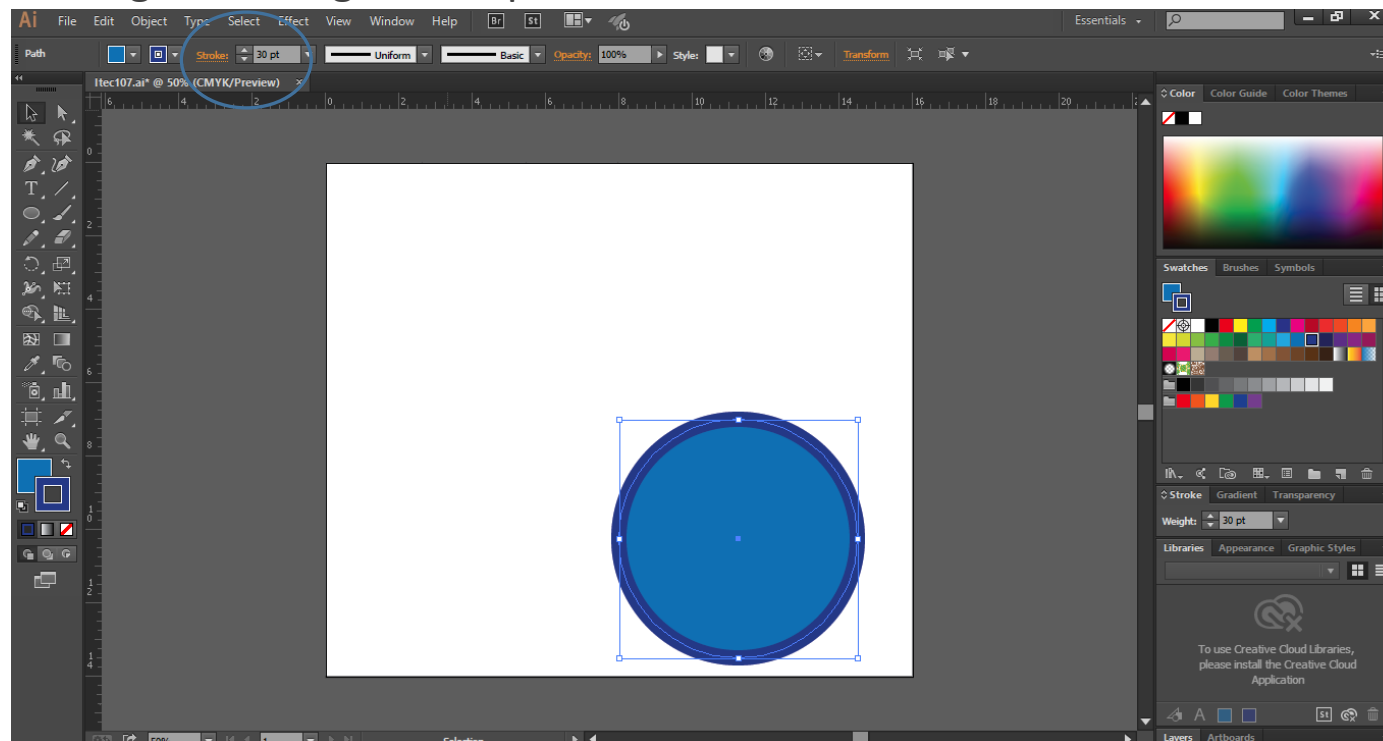
Applying color

- Experimenting and applying color is easy using the Color panel, Swatches panel, Color Guide panel, and Edit Colors/Recolor Artwork dialog box.
- Select the Selection tool (☒) in the Tools panel on the left.
- With the circle still selected, click the Fill color in the Control panel (circled in the figure) to reveal the Swatches panel.
- Position the pointer over a blue swatch (in the second row of colors).
- When the tool tip appears that shows “C=85, M=50, Y=0, K=0,” click to apply the blue swatch to the fill.



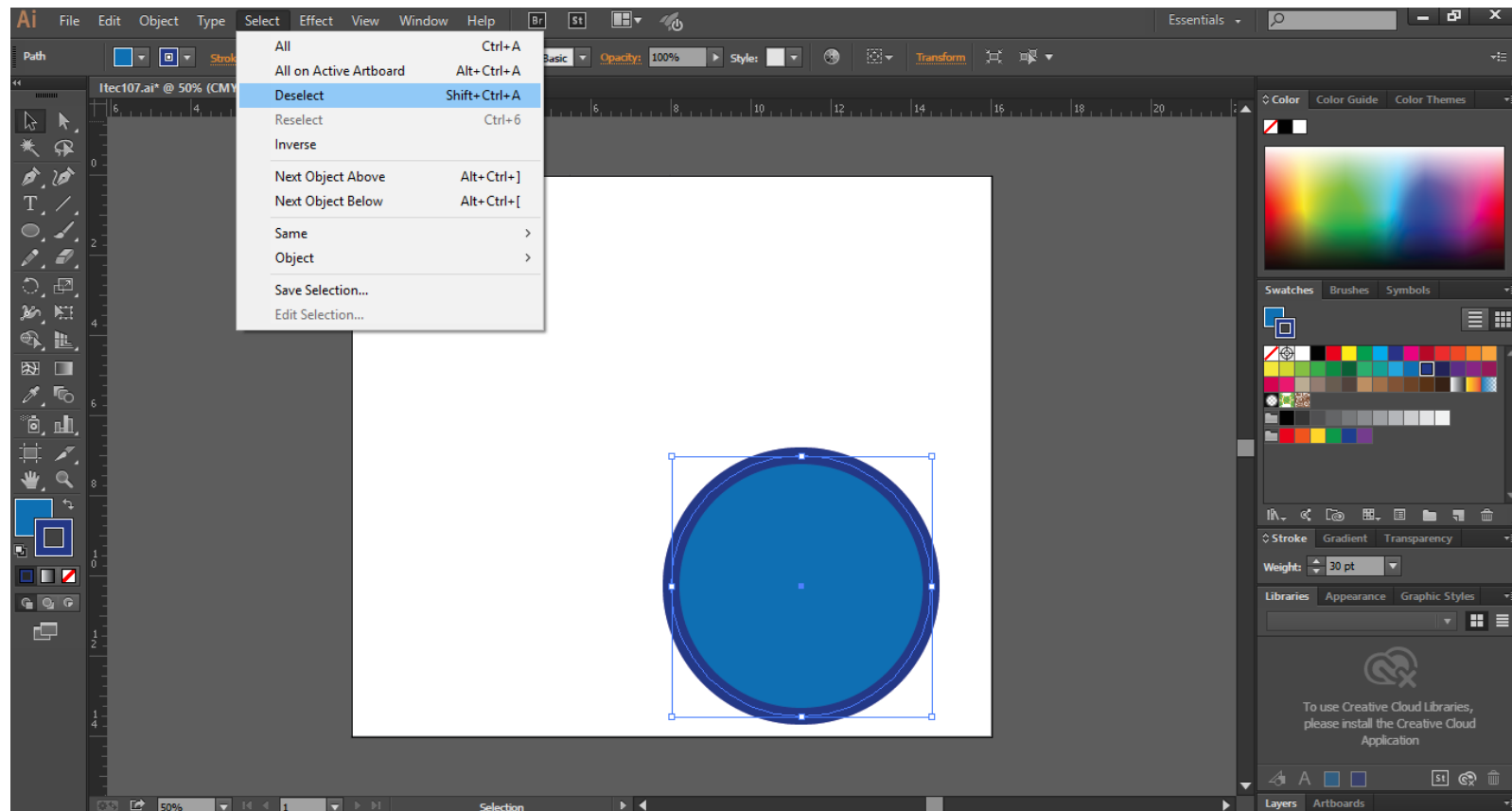
Applying color

- Click the Stroke color in the Control panel (circled in the figure).
- Select any color to add the stroke (border) of the circle.
- Change the weight to 30pt.



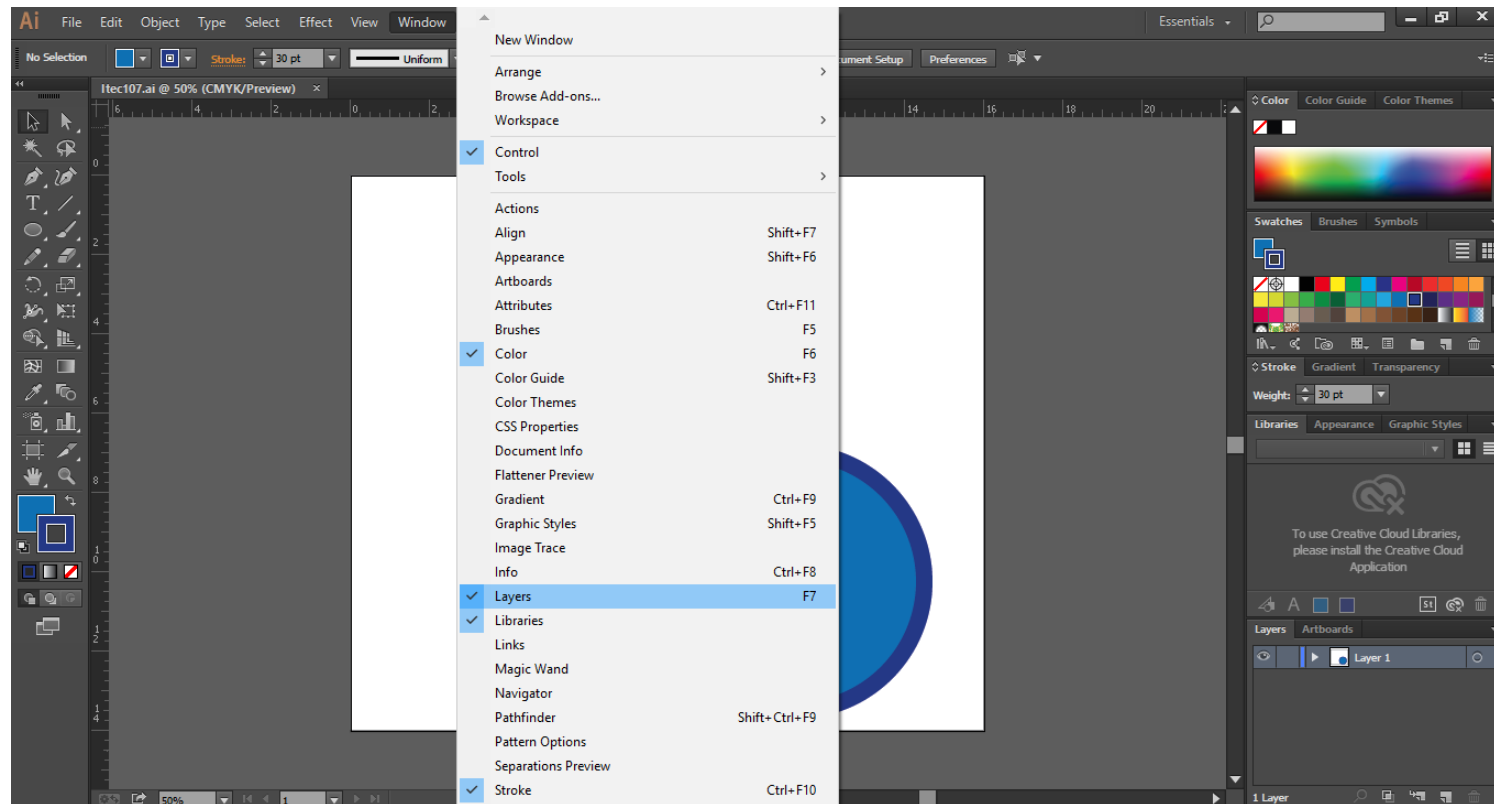
Applying color

- Choose Select > Deselect, and then choose File > Save.



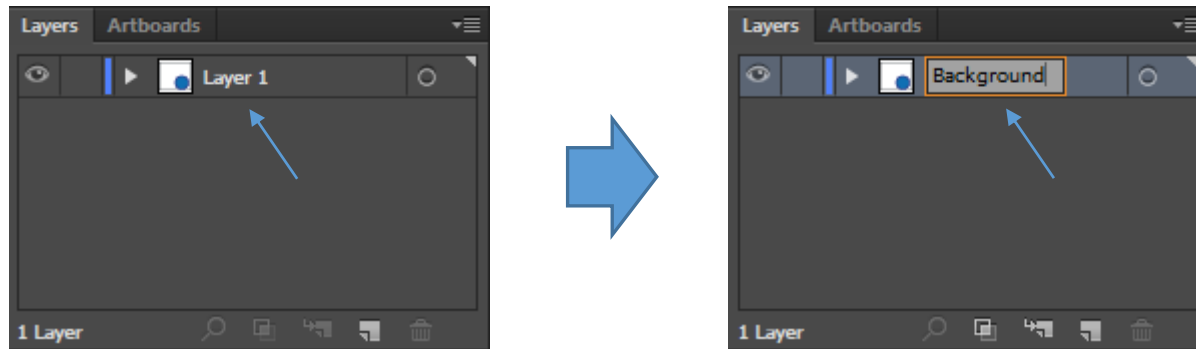
Working With Layers

- Layers allow you to organize and more easily select artwork.
- Choose Window > Layers to show the Layers panel in the workspace.



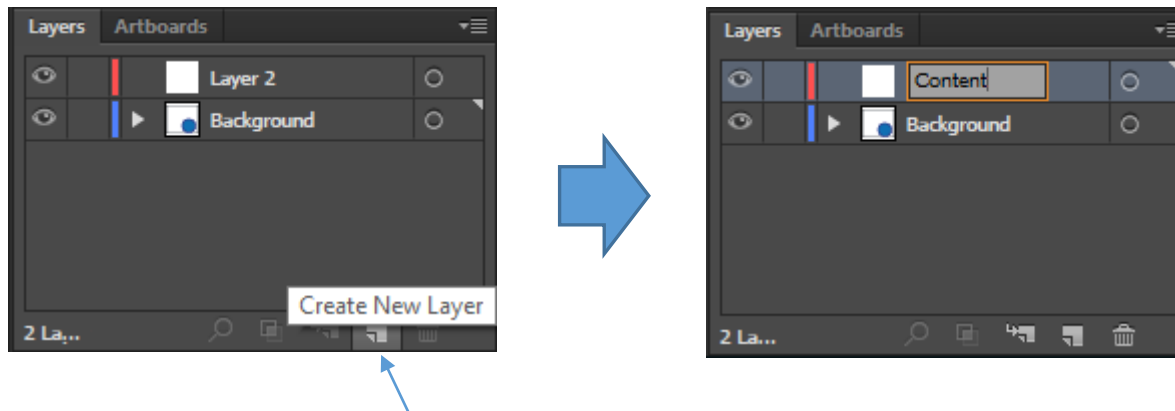
Working With Layers

- Double-click directly on the text “Layer 1” (the layer name) in the Layers panel.
- Type *Background*, and press Enter or Return to change the layer name.
- Naming layers can be helpful when organizing content.
- Currently, all artwork is on this layer.




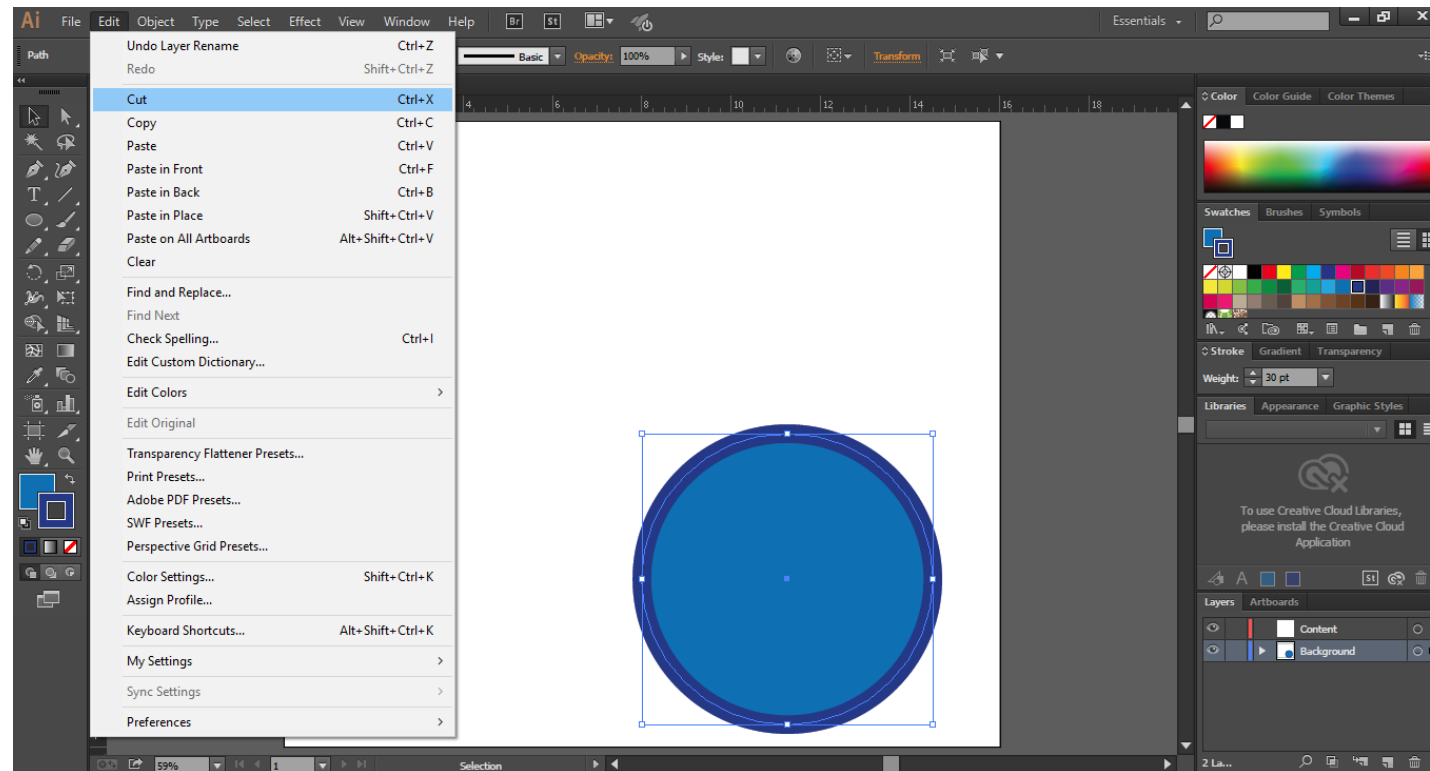
Working With Layers

- Click the Create New Layer button (📄) at the bottom of the Layers panel.
- Double-click “Layer 2” (the new layer name), and type *Content*.
- Press Enter or Return.



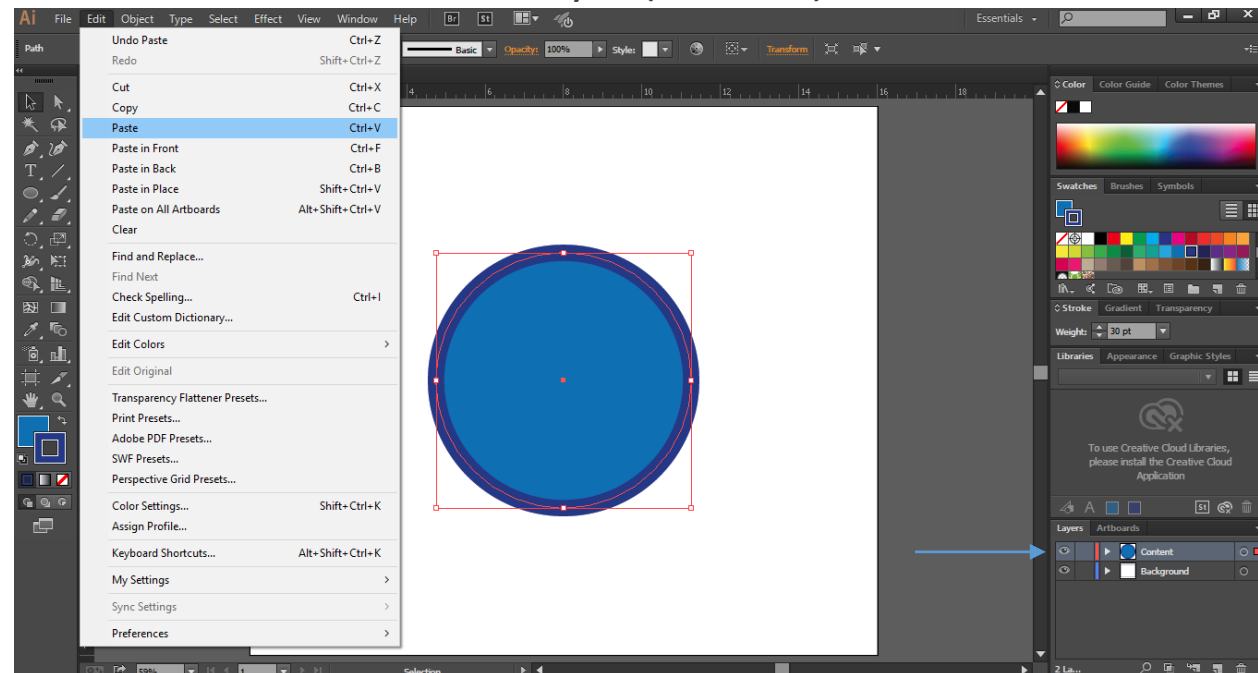
Working With Layers

- With the Selection tool () selected, click to select the blue circle.
- Choose Edit > Cut.



Working With Layers

- Choose View > Fit Artboard In Window.
- Click once on the layer named Content to select it in the Layers panel.
- New artwork is added to the selected layer.
- Choose Edit > Paste to paste the circle on the selected layer (Content), in the center of the artboard.
- Choose Select > Deselect.
- File > Save.



Keyboard Shortcuts

FUNCTION	MAC OS	WINDOWS
View Artwork at 100% Magnification	Command + 1	Ctrl + 1
Fit Artwork on Screen	Command + 0	Ctrl + 0
Temporarily Switch to Hand Tool while Drawing	Spacebar	Spacebar
Zoom In on Document	Command + (+)	Ctrl + (+)
Zoom Out on Document	Command + (-)	Ctrl + (-)
Lock selected Artwork	Command + 2	Ctrl + 2
Lock All Artwork	Command + Shift + Option + 2	Ctrl + Shift + Alt + 2
Unlock all Artwork	Command + Option + 2	Ctrl + Alt + 2
Duplicate an Object	Option + Drag	Alt + Drag
Change pointer to Crosshair when Selecting	Caps Lock	Caps Lock

Type Shortcut

FUNCTION	MAC OS	WINDOWS
Move one Character (Right or Left)	Arrow Key(s)	Arrow Key(s)
Move one Word (Right or Left)	Command + Arrow Key(s)	Ctrl + Arrow Key(s)
Align Paragraph(s) Left	Command + Shift + L	Ctrl + Shift + L
Align Paragraph(s) Center	Command + Shift + C	Ctrl + Shift + C
Align Paragraph(s) Right	Command + Shift + R	Ctrl + Shift + R
Justify Paragraph(s)	Command + Shift + J	Ctrl + Shift + J
Insert Soft Return	Shift + Enter	Shift + Enter
Insert Type Size	Command + Shift + >	Ctrl + Shift + >
Decrease Type Size	Command + Shift + <	Ctrl + Shift + <

Document Shortcut

FUNCTION	MAC OS	WINDOWS
Create a New Document	Command + N	Ctrl + N
Open a Document	Command + O	Ctrl + O
Save a Document	Command + S	Ctrl + S
Revert a Document to Original State	F12	F12
Toggle Screen Modes	F	F
Default Fill/Stroke Colors	D	D
Toggle Fill/Stroke	X	X