

MULTIPLE TRANSFORMATIONS

Lesson overview

In this lesson, you'll learn how to do the following:

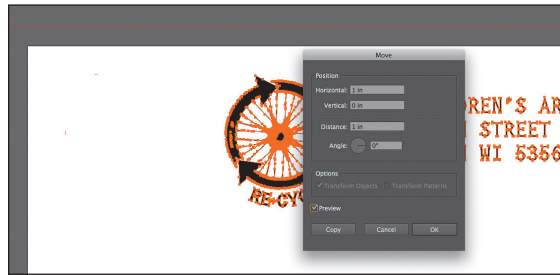
- Explore a few other features related to transforming content.



Applying multiple transformations

Next, you will learn about the Transform Each command and how to apply a series of transformations multiple times.


- 1 Choose File > Open, and open the L4end.ai file in the Lesson04 folder, located in the Lessons folder on your hard disk.
- 2 Choose 2 Envelope from the Artboard Navigation menu in the lower-left corner of the Document window to return to the Card-front artboard.
- 3 Choose View > Fit Artboard In Window.
- 4 With the 2 Envelope artboard showing in the Document window, select the Zoom tool (Q), and drag a marquee across the upper-left corner of the artboard. Make sure you can still see the corner of the artboard and the wheel.
- 5 With the Selection tool (V), Shift-click the wheel logo and the text that begins with “THE CHILDREN’S ART CENTER...” to select both.
- 6 Double-click the Selection tool in the Tools panel. In the Move dialog box, change the Horizontal value to **1 in**. Select Preview and then click OK.

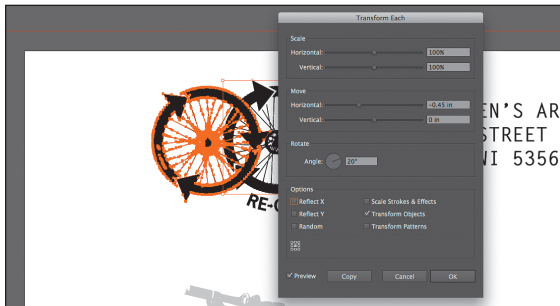


- 7 Choose Select > Deselect.
- 8 With the Selection tool, double-click the small wheel logo. Click to select the wheel shape (not the “RE-CYCLE IT” text), and then choose Edit > Copy.



- 9 Press the Escape key to exit Isolation mode, and then choose Edit > Paste In Front.

- 10** Choose Object > Transform > Transform Each. In the Transform Each dialog box, select Preview. Ensure that center point of the reference point locator () is selected in the dialog box. Change the Move Horizontal to **-0.45 in.** Change the Rotate Angle to **20**. Leave the other settings as they are, and then click **Copy**.



Tip: You can also apply transformations to selected content as an effect (Effect > Distort & Transform > Transform). Transforming as an effect has the advantage of letting you change or remove the transformation in the Appearance panel at any time. You will learn more about the Appearance panel in Lesson 13, “Applying Appearance Attributes and Graphic Styles.”

The options in the Transform Each dialog box let you apply multiple types of transformations in a random manner, if you want. It also allows you to transform multiple selected objects on the artboard, independently of each other.

- 11** With the new wheel selected, change the Fill color to a darker gray (C=0 M=0 Y=0 K=60) in the Control panel and choose Object > Arrange > Send To Back.
- 12** Choose Object > Transform > Transform Again to create one more wheel.
- 13** With the new wheel selected, change the Fill color to a lighter gray (C=0 M=0 Y=0 K=30) in the Control panel and choose Object > Arrange > Send To Back.
- 14** Press Ctrl+D (Windows) or Command+D (Mac OS) to transform the last selected wheel, creating a total of four wheel shapes.
- 15** Change the Fill color of the last wheel to a lighter gray (C=0 M=0 Y=0 K=10) in the Control panel, and choose Object > Arrange > Send To Back.



- 16** Choose File > Save and File > Close.

Using the Free Distort effect

Now, you'll explore a slightly different way of distorting objects. Free Distort is an effect that lets you distort a selection by moving any of its four corner points.

- 1 Choose File > Open, and open the L4start_2.ai file in the Lesson_extras folder, located in the Lessons folder on your hard disk.
- 2 Choose File > Save As. In the Save As dialog box, change the name to **hangtags.ai**, and navigate to the Lesson_extras folder. Leave the Save As Type option set to Adobe Illustrator (*.AI) (Windows) or the Format option set to Adobe Illustrator (.ai) (Mac OS), and then click Save. In the Illustrator Options dialog box, leave the Illustrator options at their default settings, and then click OK.
- 3 Choose View > Fit Artboard In Window to fit Artboard 1 in the window (the artboard with the bicycle).
- 4 With the Selection tool (⌘), double-click the text, "RE-CYCLE IT" to enter Isolation mode. Click to select the text, "RE-CYCLE IT."
- 5 Choose Effect > Distort & Transform > Free Distort.
- 6 In the Free Distort dialog box, drag one or more of the handles to distort the selection. In the figure, we dragged the upper-right point up and the bottom-right point in toward the center. Click OK.

► **Tip:** In this case, the text was selected with the Selection tool, and the Type > Create Outlines command was applied to convert the text to shapes. It is not necessary to apply the Create Outlines command to text prior to applying the Free Distort command.

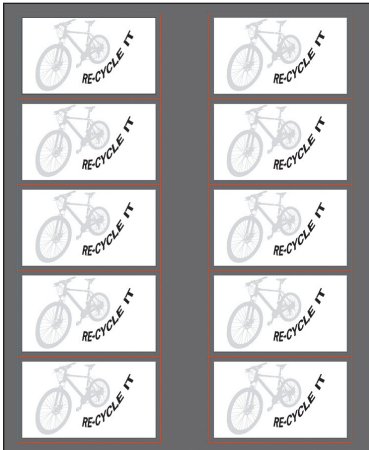


- 7 Double-click outside the artwork to exit Isolation mode and to deselect it.



Now, you'll create multiple copies of the business card content.

- 8 Choose Select > All On Active Artboard, and then choose Edit > Cut.
- 9 Choose View > Fit All In Window.
- 10 Choose Edit > Paste On All Artboards.
- 11 Choose Select > Deselect.



► **Tip:** To print the cards on a single page, choose File > Print and select Ignore Artboards to fit all the artboards on a single page.

- 12 Choose File > Close.