



Trace Bitmap

A. Page Size.

Step 1. Click File Menu > New (Ctrl-N).

Step 2. Set page size in the Property bar:

Width  to 3.2 Fig. 1
Height  to 2

Step 3. Click **Zoom to Page**  in Zoom toolbar (Shift-F4).

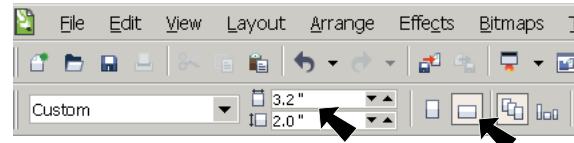


Fig. 1

B. Save Bitmap Logo from Web Site.

Step 1. **Open FireFox** browser. Use Start Menu > All Programs > Mozilla FireFox.

Step 2. Find Tech Ed web site by googling **cuda**country.

Step 3. At Brookside Tech Ed web site click **Home** button.

Step 4. Click **Links** button.

Step 5. Scroll down and click **Brookside Barracuda Graphics** under Student Projects.

Step 6. **Right click** the text of the bitmap you wish to use and click **Save Links As**, Fig. 2.

Step 7. Click **My Documents** button and Save, Fig. 3.

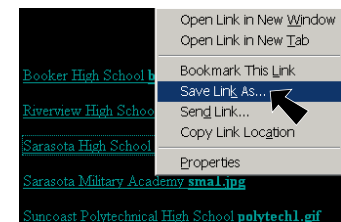


Fig. 2

C. Import Bitmap.

Step 1. Switch back to your CorelDRAW file (Alt-Tab).

Step 2. Click File Menu > Import.

Step 3. Select **bitmap** file and click Import.

Step 4. **Press ENTER** to place the cuda graphic.

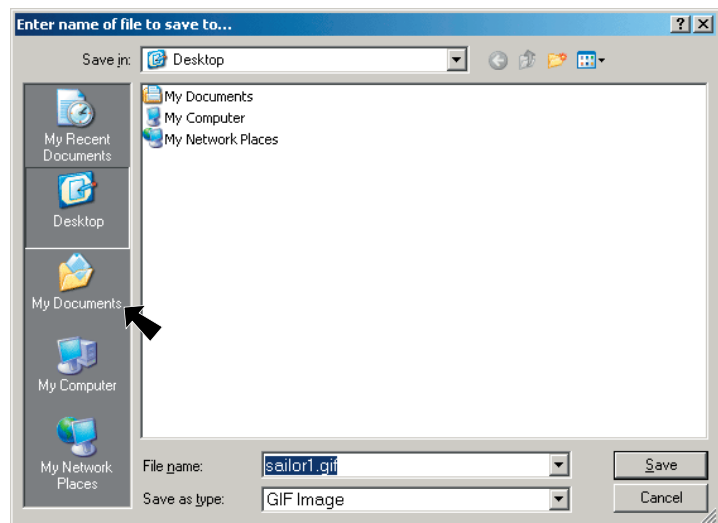



Fig. 3

Step 5. The logo fits best in Portrait page orientation. To change, click any unused space to unselect the object and click Portrait button  in the Property bar, **Fig. 1**.

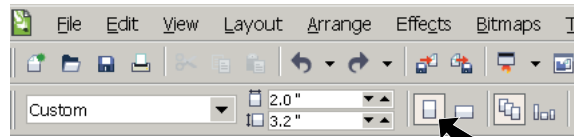



Fig. 4

Step 6. Select the bitmap with **Arrow Tool**  and **Shift drag a corner handle** to scale to fit page, **Fig. 5**.

Step 7. Use **P** key on keyboard to center on page.

Step 8. Use **Shift-F4** to zoom to page.



Fig. 5

D. Save as "tracing".

Step 1. Click File Menu > Save As.

Step 2. Key-in **tracing** for the filename and press ENTER.

E. Trace Bitmap.

Step 1. Click Bitmaps Menu > Outline Trace > High Quality Image.

Step 2. In PowerTRACE dialog box set:

Detail to 9 Fig. 6

Smoothing to 25

Corner smoothness to 0

Check Delete original image and click OK.



Fig. 6

F. Edit Nodes (if necessary).

Step 1. Zoom in around hat. Use **F2** and make zoom window, **Fig. 7**.

Step 2. Click Arrange Menu > Ungroup All.

Step 3. Click **Shape Tool**  (**F10**) in the toolbar.

Step 4. To smooth lines and convert to curves:

1) Click the black part of hat, **Fig. 8**. Drag a selection around several nodes to delete and press Delete key on keyboard.

2) Move nodes, **Fig. 10**.

3) Convert line segments to curves and bend lines into curves, **Fig. 11**.

Step 5. Continue to smooth all areas of the graphic the graphic. To pan around, use **H** key to select **Hand Tool** . Use **F10** for **Shape Tool**  to edit nodes and smooth curves.

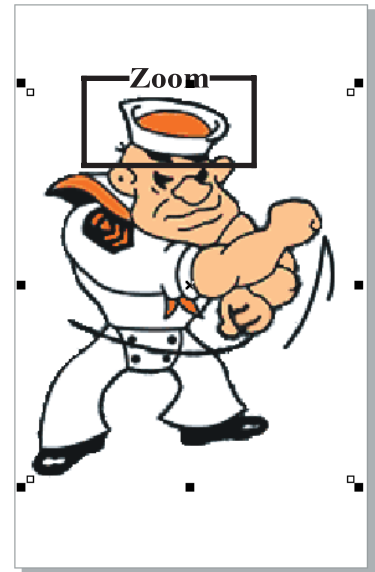


Fig. 7



Fig. 8

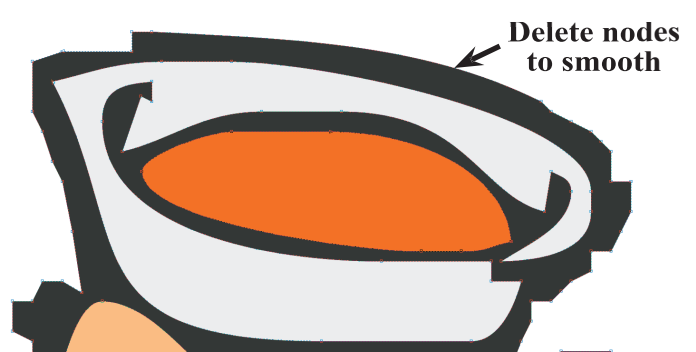


Fig. 9

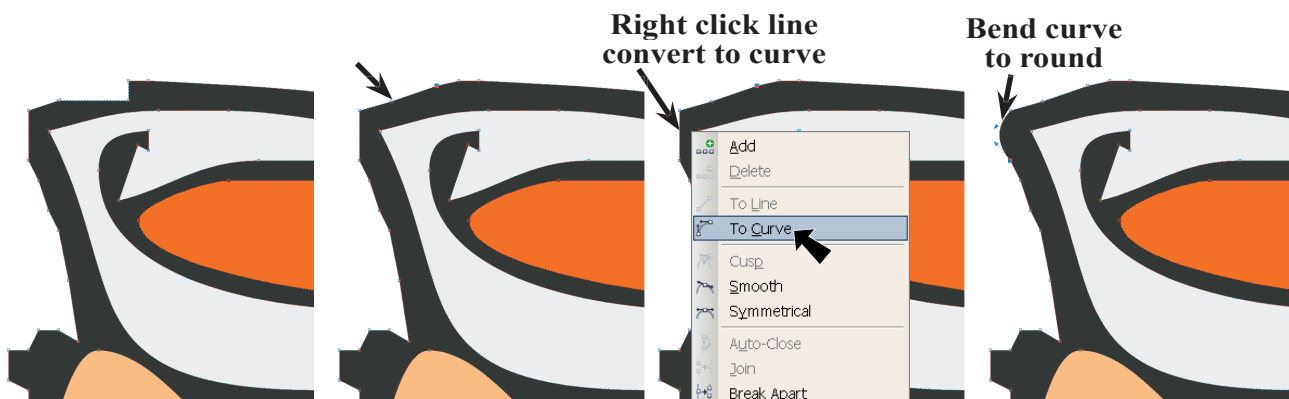


Fig. 10

Fig. 11

G. Banner.

Step 1. Use **Shift F4** to zoom to page.

Step 2. Click **Arrow Tool**  in the toolbar.

Step 3. Select all. Use **Ctrl-A**.


Step 4. Click Arrange Menu > Group (**Ctrl-G**).

Step 5. Use the **down arrow key** to nudge the sailor down making room at the top for banner, **Fig. 15**.



Step 6. Click and hold **Basic Shapes Tool**  in the toolbar and click **Banner Tool**  from the flyout, **Fig. 13**.

Step 7. In the Property bar click **Perfect Shapes Tool**  and select the 3rd banner  from the menu, **Fig. 14**.

Step 8. Draw a banner across the page, **Fig. 15**.

Step 9. Click **Eyedropper Tool**  in the toolbar and click the orange in hat to pick up orange color, then click banner to fill banner with orange.

Step 10. Click **Arrow Tool**  in the toolbar to select banner.

Step 11. Click **Outline Tool**  in the toolbar and click **Outline Pen**  (**F12**) from the flyout, **Fig. 17**.

Step 12. In the Outline Pen dialog box set:
Width 3, **Fig. 18**.
Calligraphy Stretch 10
Calligraphy Angle 45
 and click OK.

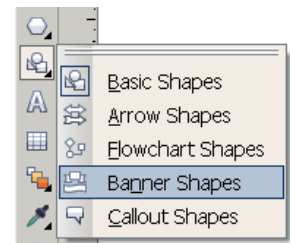


Fig. 13

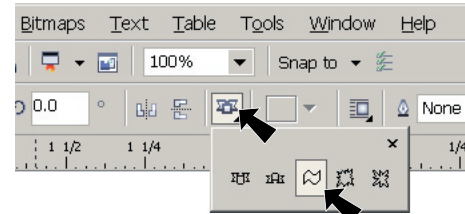


Fig. 14

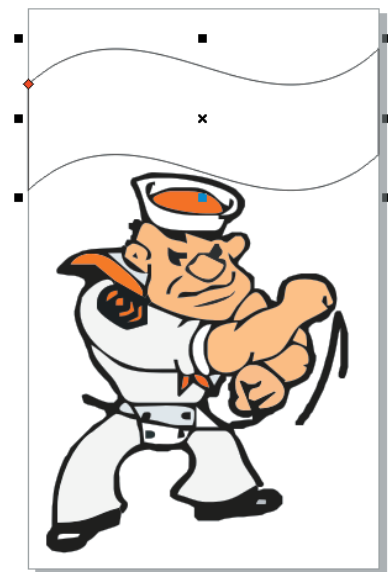


Fig. 15

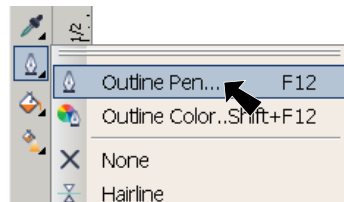


Fig. 17

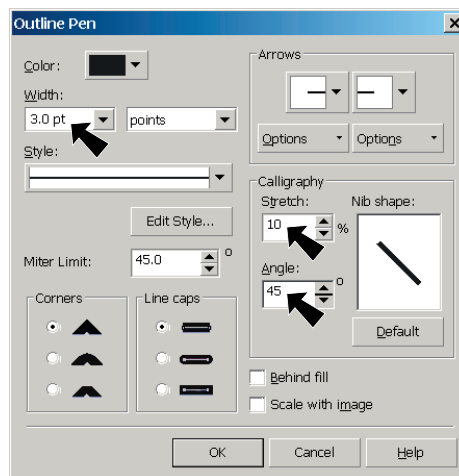


Fig. 18



Fig. 16

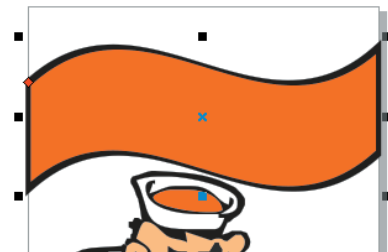


Fig. 19

H. Add Text.

Step 1. Click **Text Tool**  in the toolbar and click in the banner.

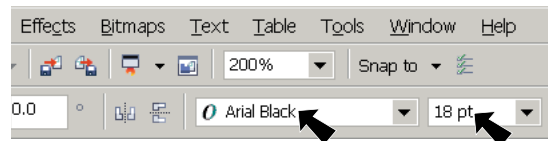


Fig. 20

Step 2. In the Property bar set:
Font to Arial Black, Fig. 20.
Size to 18



Fig. 21

Step 3. Key-in your text, Fig. 21.

Step 4. Click **Arrow Tool**  in the toolbar.

Pull handle up

Step 5. **Pull the top middle handle up to stretch the text, Fig. 22.**
Make sure it will fit inside the banner.



Fig. 22

Step 6. Click Text Menu > Fit Text to Path.

Step 7. Move the cursor along the curve on the top of the banner. A red line will highlight the middle. Click when the red line indicates you are at the middle point, Fig. 23.



Fig. 23

Step 8. In the Property bar, click Text Orientation  and select the last orientation, Fig. 24 and Fig. 25.

Step 9. Click any unused space to unselect text.

Step 10. Click text to select Text on a Path.

Step 11. Click Arrange Menu > Break Text Apart (Ctrl-K) to break text from path.

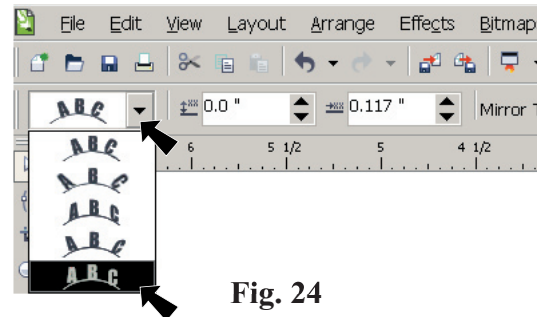


Fig. 24

Step 12. Click any unused space to unselect the objects.

Step 13. Click text to select just the text.

Step 14. Select the text and use **P** key on keyboard to center on page.



Fig. 25

Step 15. Use the up arrow key to **nudge the text into the center** of banner, Fig. 26.




Fig. 26

Step 16. Save. Use **Ctrl-S**.

I. Cut Boundary.

Step 1. Double click the **Rectangle Tool**  in the toolbar to create rectangle size of page, **Fig. 27**.

Step 2. **Right click red** in the **Trotec** palette to change the outline color to red. Red is the cut color on laser.

Step 3. In the Property bar, set the **Outline width**  to **hairline**, **Fig. 28**. Hairline is the cut line width on laser.

Step 4. In the Property bar, set the **Corner Roundness** to **12**, **Fig. 28** and **Fig. 29**.

Outline:
Red Hairline



Fig. 27

J. Circle for Hole.

Step 1. Click the **Ellipse Tool**  in the toolbar.

Step 2. Draw a small circle in the top right corner, **Fig. 29**. Hold down the **Ctrl** key to draw a perfect circle. **Hold down both Ctrl and Shift** key to draw circle outward from center.

Step 3. Click the **Arrow Tool**  in the toolbar.

Step 4. In the Property bar set:

X: 1.8

Y: 3

Object Width  to **.12**

Object Height  to **.12**, **Fig. 30**.

Step 5. Set the outline color to **red** and the outline width to **hairline**.

Step 6. Save. Use **Ctrl-S**.

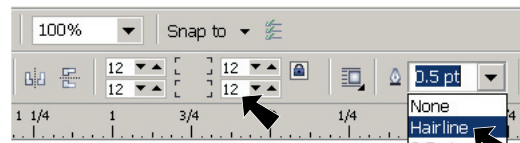


Fig. 28

Corner
Roundness



Fig. 29

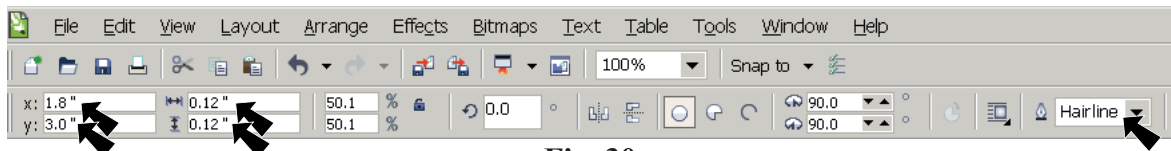


Fig. 30