

CATS TUTORIALS

IVEO CREATOR

This section will demonstrate how to create an image layout to use with the IVEO touchpad. You will learn how to create and edit images, calibrate and make proper use of the IVEO touchpad.

Step-1 Creating an Image layout

- a. First scan an image using any scanner software available. It is advisable it should be saved in your new folder as JPEG or png which compresses the image. (If image is saved as raw image e.g. bitmap it can use a lot of resources when opened in IVEO.)
- b. Open IVEO creator:

Start Menu → All Programs → View Plus Folder → IVEO Creator
(See Figure1)

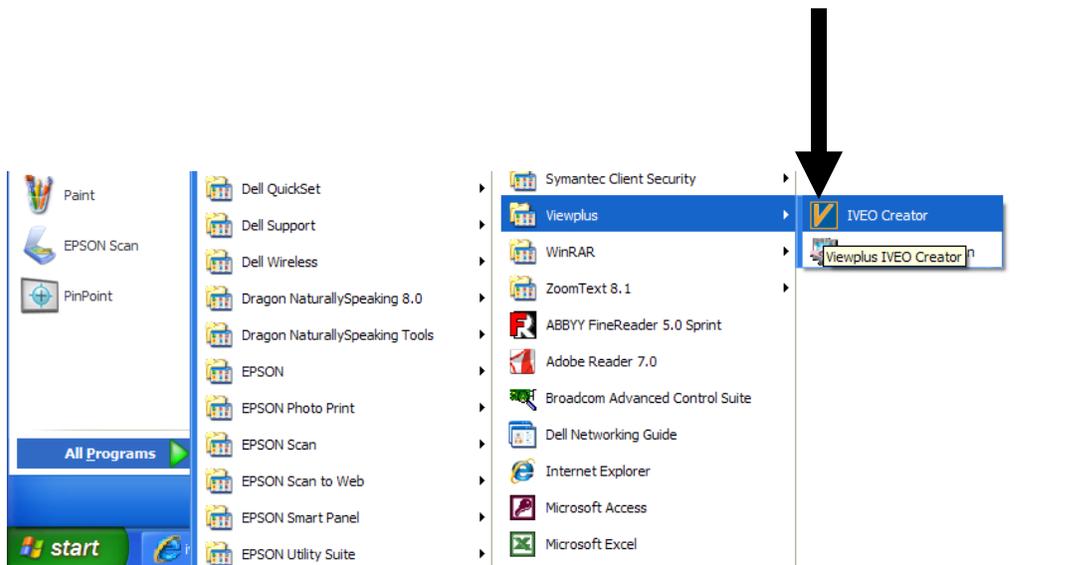


Figure 1

Step-2 Open a New Document

- a. To create a new document, go to **FILE** and select **NEW**, or use the shortcut Ctrl+N.

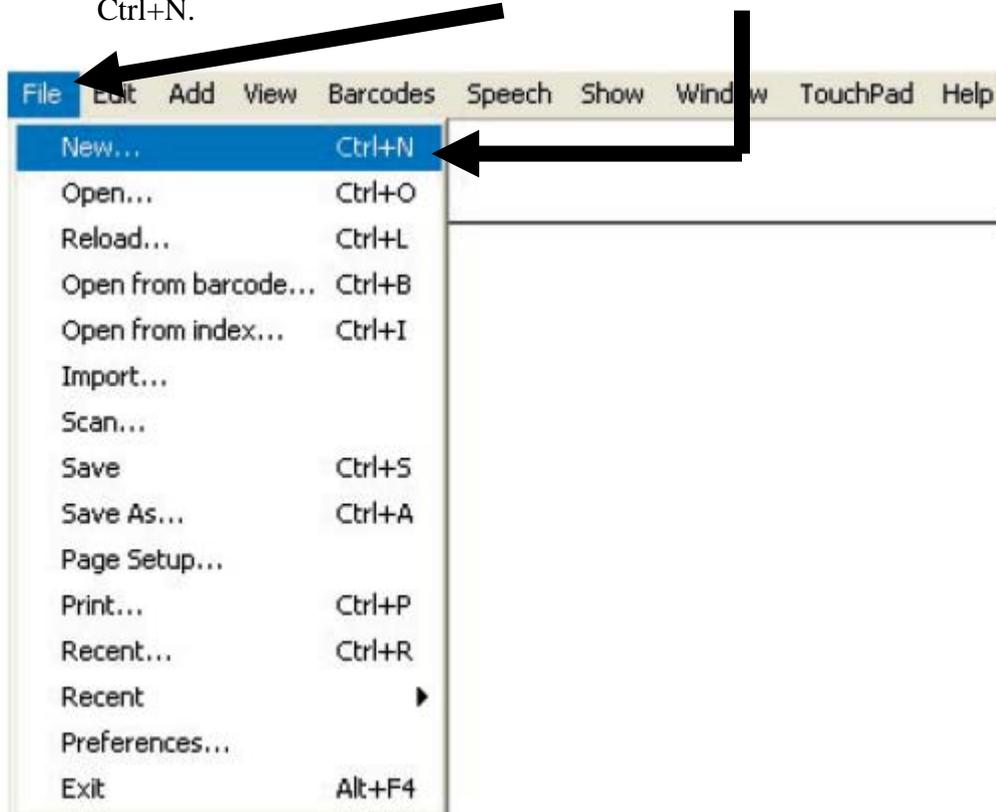


Figure 2

- b. A window will pop up where you can adjust the dimensions of the new workspace in inches. The default dimensions are 10 x 8 which is the recommended.



Figure 3

- c. Add Compressed Image (your saved image) - Go to **Add** Select **Image** as shown in figure 4

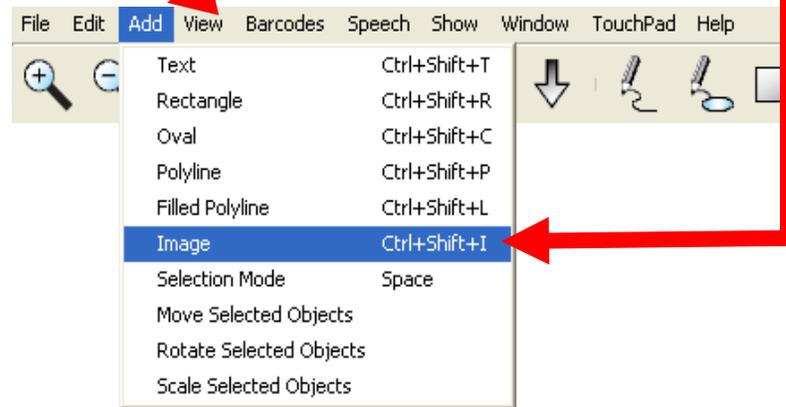


Figure 4

- d. An open File Dialogue box will appear
- I. Go to the location where the image is saved. For demonstration purposes we saved in a folder we created called "IVEO Example".
 - II. Select On Image File
 - III. Click on Open

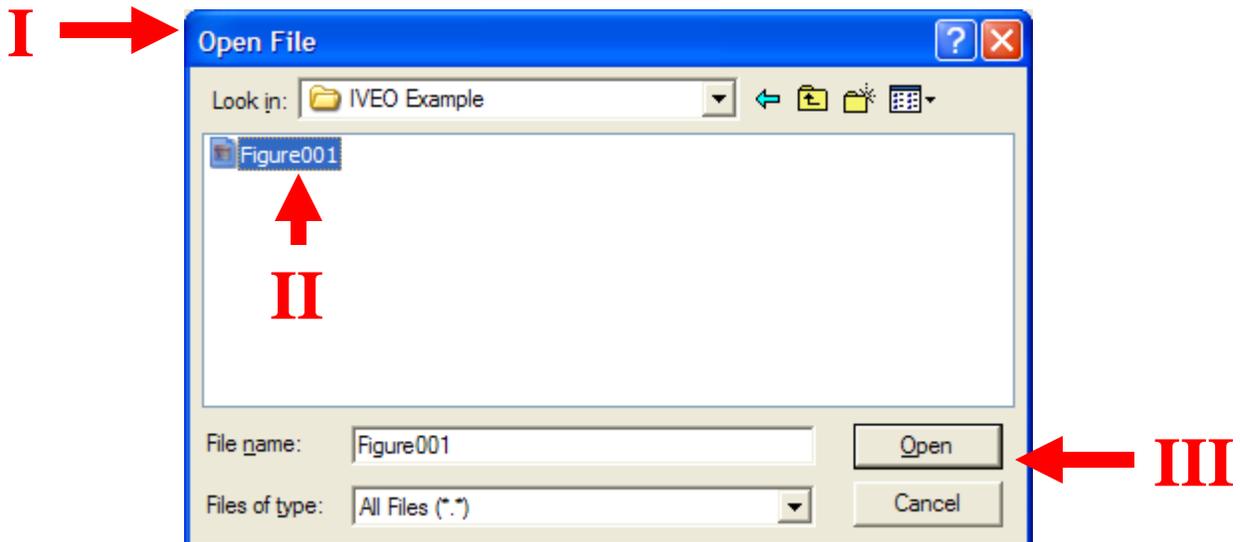


Figure 5

e. The opened Image using the IVEO Interface (Figure 6).

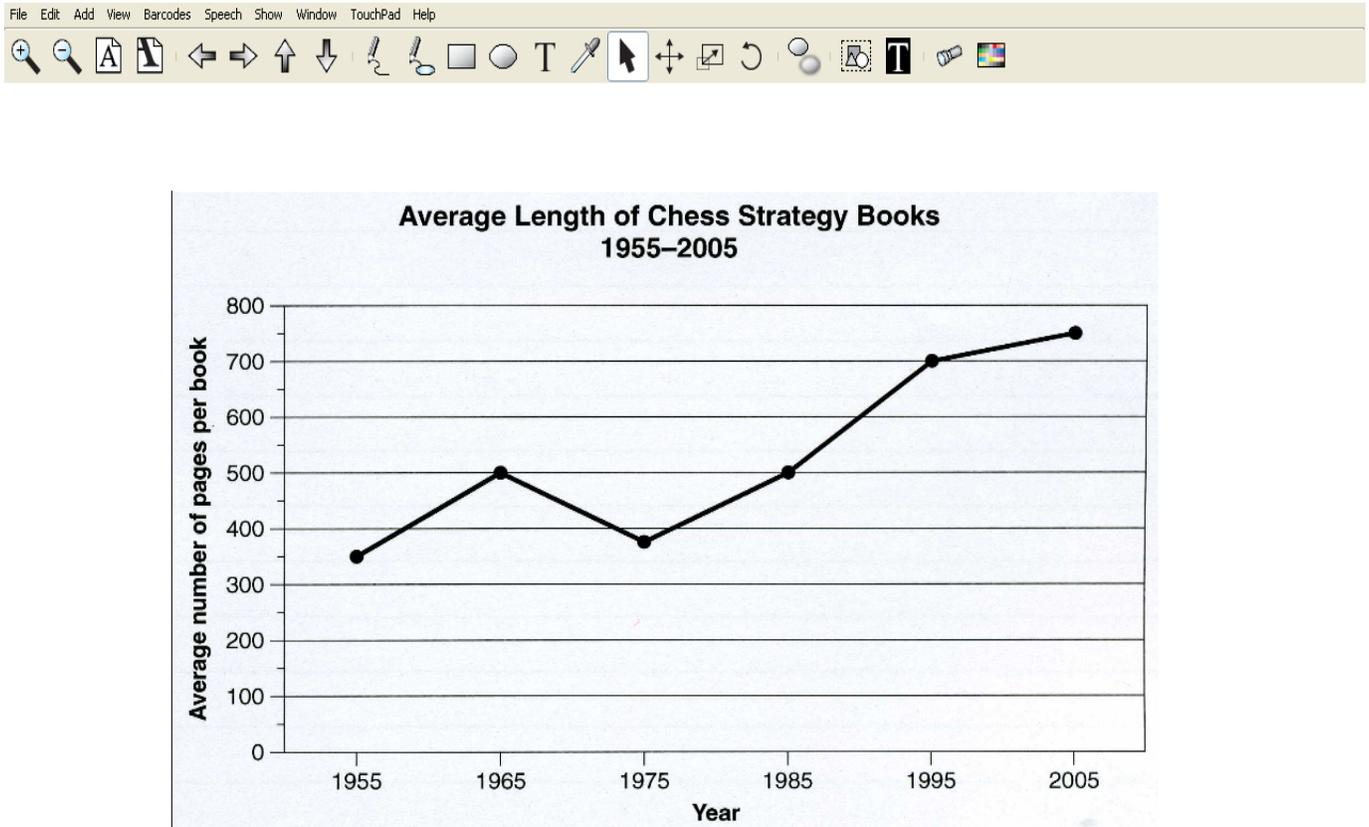


Image added

Figure 6

Step-3 Choose an Element to place on image

You will use these elements to identify parts of the image that the IVEO engine will speak when touched on the IVEO Touchpad.

- a. Choose an element you would like to add from the **ADD** menu. For this exercise, we will choose **Rectangle** from the menu or use the shortcut **Ctrl+Shift+R**. (Figure7)

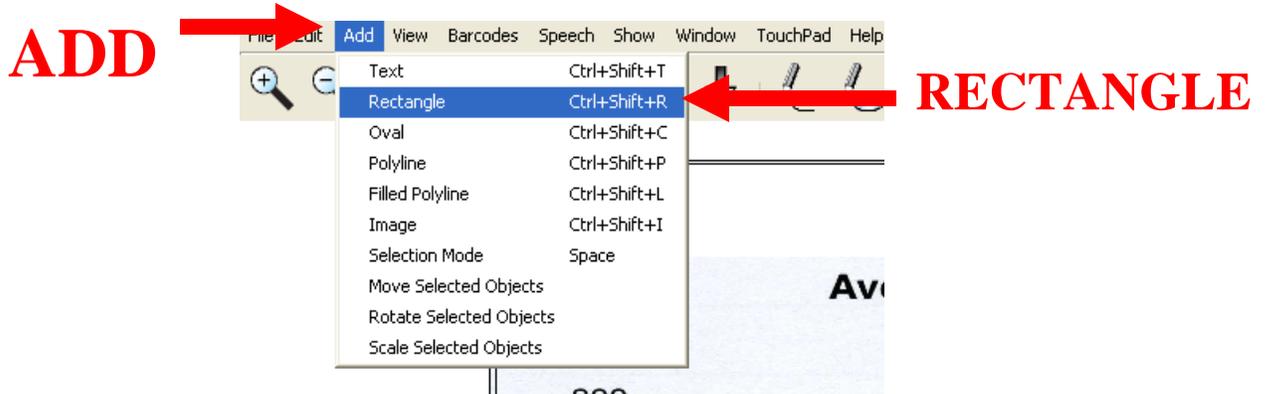


Figure 7

- b. Next you will see the cursor change the shape of the element chosen.
- c. Draw the shape around the part of the image by tracing it with the cursor. The shape will appear on the image.
(See Figure 8)

- I. Title of Graph
- II. Plotted Points on Graph

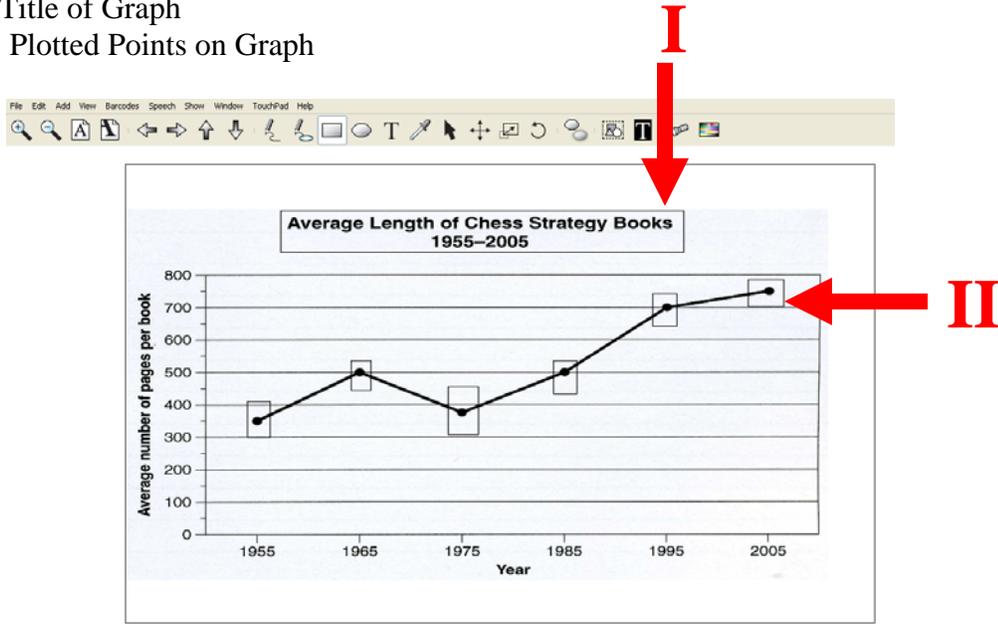


Figure 8

Step-4 Labeling the Image

a. To label the image, first select it. We will select the object we want to label (title of image) by clicking on it with the mouse. Then, choose **EDIT OBJECT** under the **EDIT** menu or use the shortcut Alt+Enter. The Edit Element Window will pop up. (Figure 9)

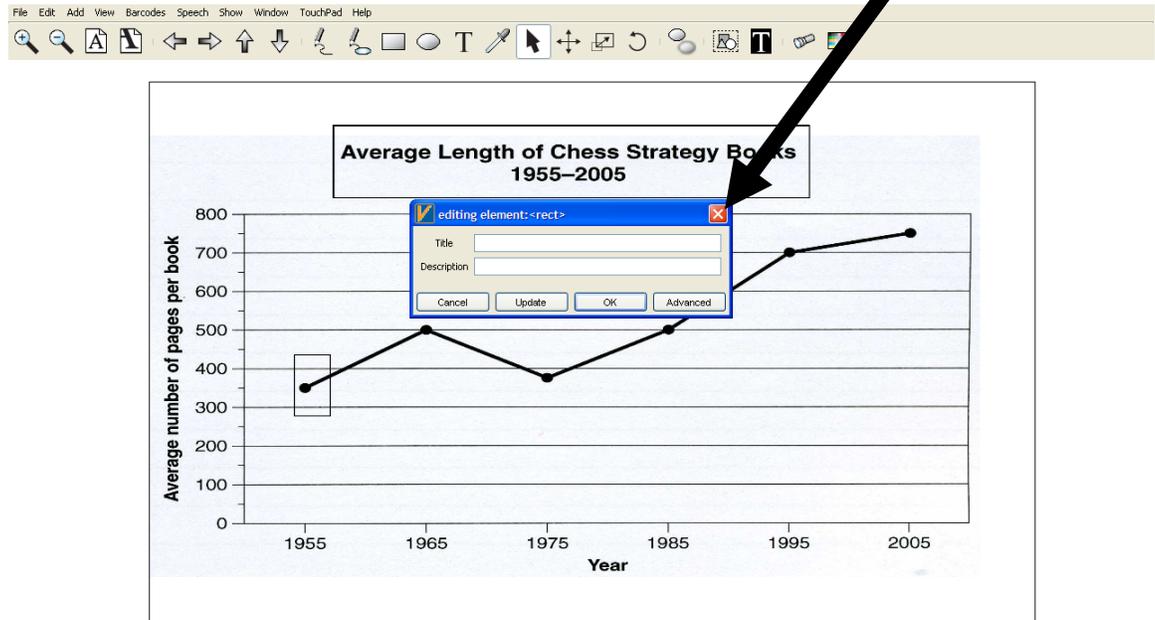


Figure 9

b. Enter Information in the Element Window

- I. In the **Title** area enter the text you would like the IVEO speech engine to speak out loud .
- II. In the **Description** you can enter any information about the chosen element for reference purposes.
- III. Click **OK**.

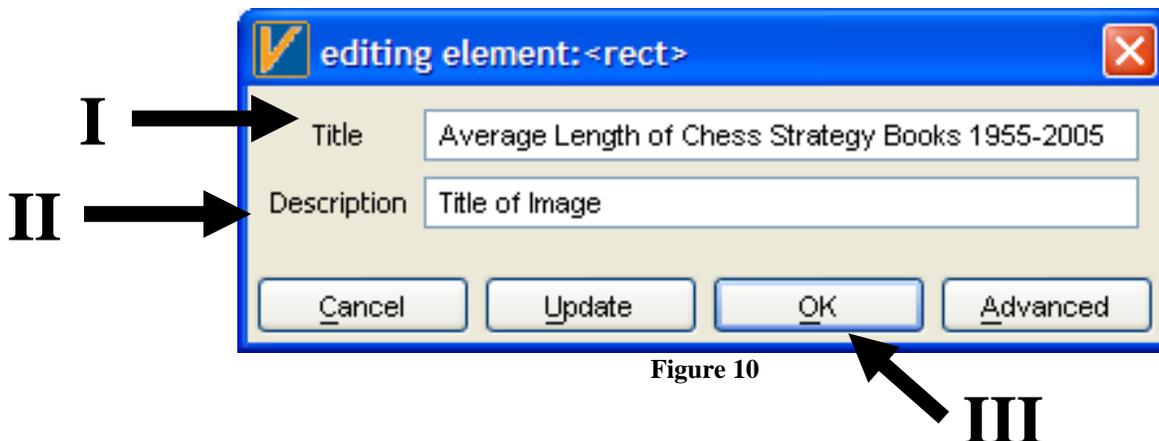


Figure 10

Repeat step 4 for the rest of the elements on the image.

Step-5 Print Completed Image in order to create a tactile image

To print the Image go to **File** → **Print** or press Ctrl+P.

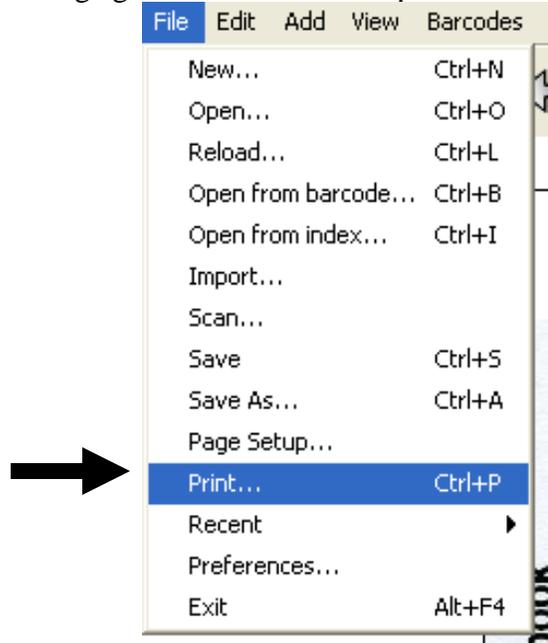


Figure 11

The following image illustrates the printed layout of the completed IVEO project.

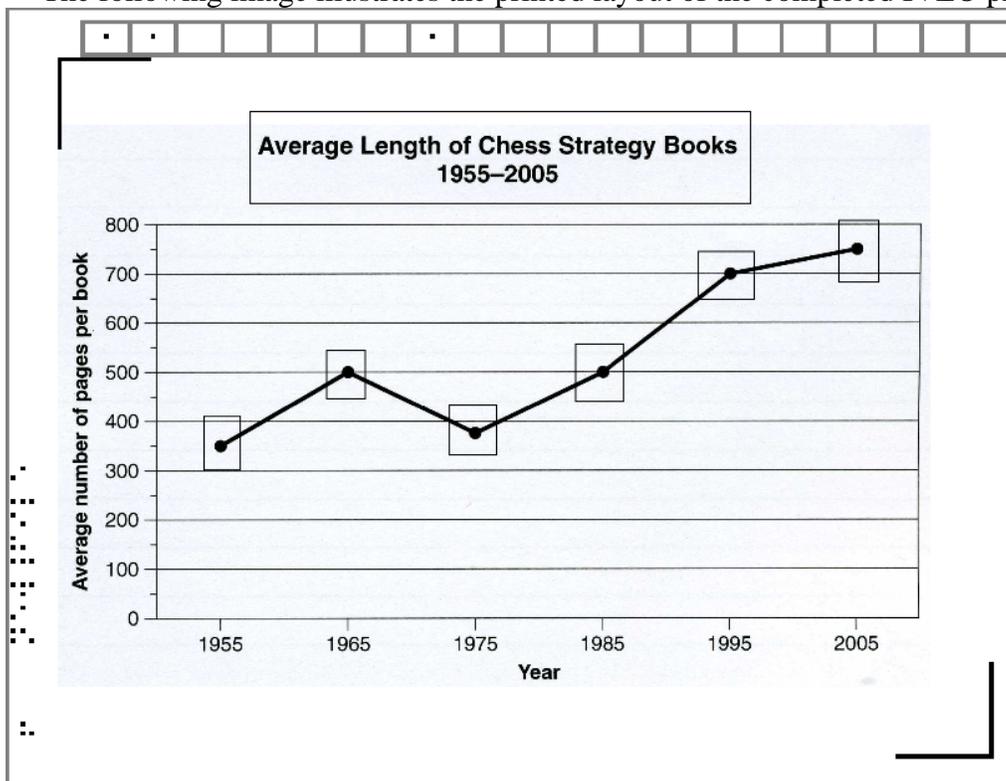


Figure 12

Step-6 Calibration of the Touchpad

The tactile image can now be used for calibration and will give you the correct points to be able to calibrate the IVEO touchpad with the image layout created. To calibrate the device place the printout on the IVEO touchpad. In the IVEO creator program go to **Touchpad → Calibrate From Current Image...**

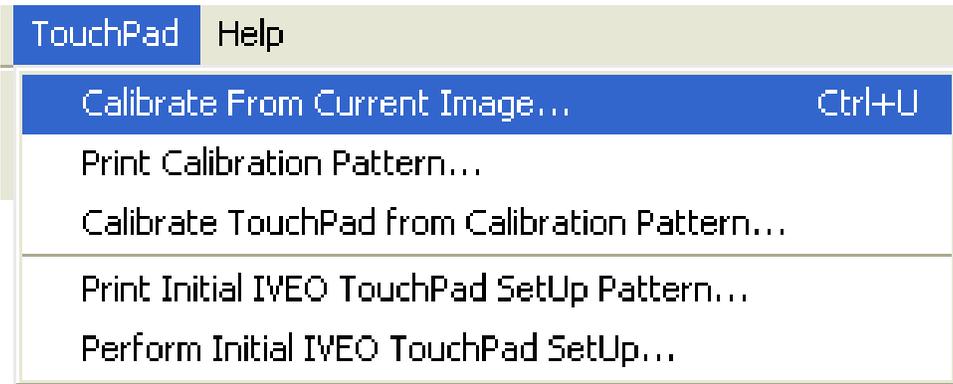
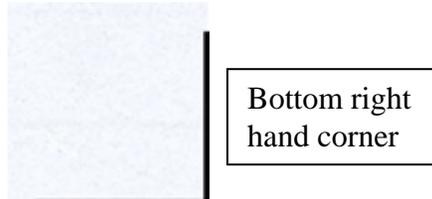


Figure 13

- a. Follow the instructions given by IVEO:
 - Touch the top left corner of the image (the corner with thick lines) and press the space bar.



- Touch the bottom right corner of the image (the corner with thick lines) and press the space bar.



- b. Now that the touchpad is calibrated is ready to use.