

## Adjusting Screen Resolution on your MacBook Pro

The MacBook Pro usually detects any externally connected display such as an overhead projector, and adjusts the screen resolution automatically. It is not necessary to turn the computer off or put it to sleep.

The default mode for external displays is called an *extended desktop*. With an extended desktop, the menu bar stays on the laptop's built-in screen, and the external screen can be used as additional screen space for viewing documents. In the classroom, the desired display mode is *mirrored*. In mirrored mode, the same image is shown on both the built-in and external displays.

To switch between the mirrored and extended desktop modes, press the <Command> + <F1> keys on the keyboard. The <Command> key is located immediately to the left and right of the <Space> bar.

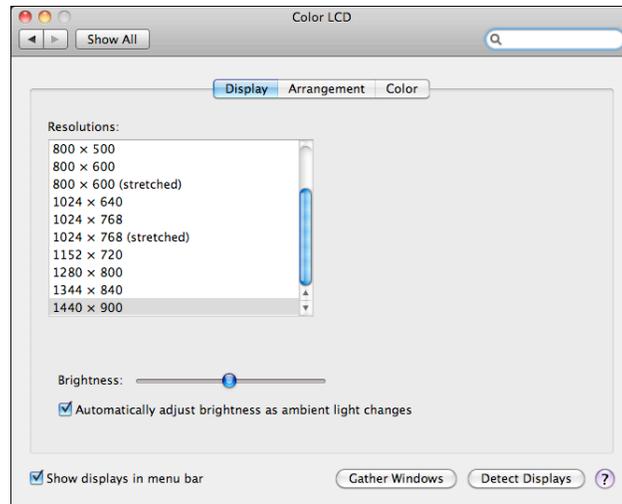
### Display Settings

Sometimes, the computer may not adjust the display settings automatically. In this case, changes can be made manually. To adjust your display settings, first choose **System Preferences** from the **Apple** menu. The **System Preferences** window is shown below.



The System Preferences contain a variety of settings for your computer. Click the desired System Preference icon to see the available settings. The **Displays** icon is in the second position in the second row.

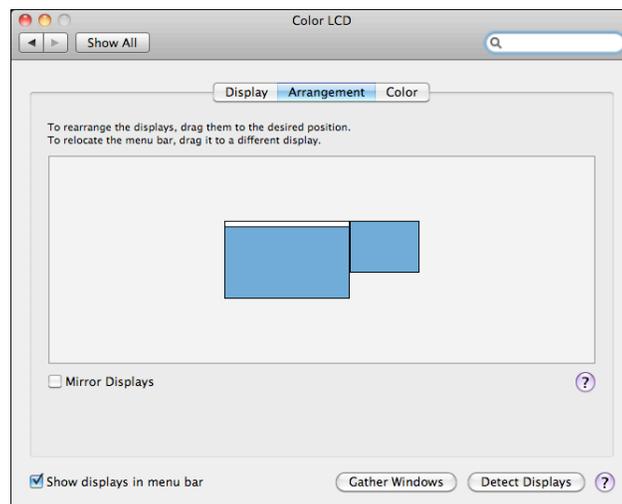
The **Displays** system preference pane is shown below, with the Display tab selected.



Screen resolution is measured in horizontal and vertical pixels. The available resolutions for the selected display are shown in a list on the left, with the currently selected resolution highlighted in blue. Click the desired resolution to select it. The screen changes to match your selection. The best resolution for the built-in display is the highest one available at the bottom of the list, which is 1440 x 900. When connected to a projector, a lower resolution (1024x768) often must be used.

Place a check in the *Show displays in menu bar* checkbox to add a screen resolution drop-down menu to your menu bar. This is described on Page 3.

The **Displays** system preference pane is shown below, with the Arrangement tab selected.



Note that this tab is only available when an external display is connected. If your computer has not recognized a connected display, Click **Detect Displays** to update.

Select the Mirror Displays checkbox to show the same image on the built-in and external displays.

When you have selected your desired settings, click the red Close button in the upper-left corner.

The **Displays menu** is indicated by a small screen icon toward the right side of the menu bar, and is shown below.



The Displays menu provides quick access to a subset of the controls found in the Displays system preference pane. Click to select a resolution from this menu. The screen changes to match your selection.

*Note that the resolutions of multiple displays can be set independently only when Mirroring is turned off.*