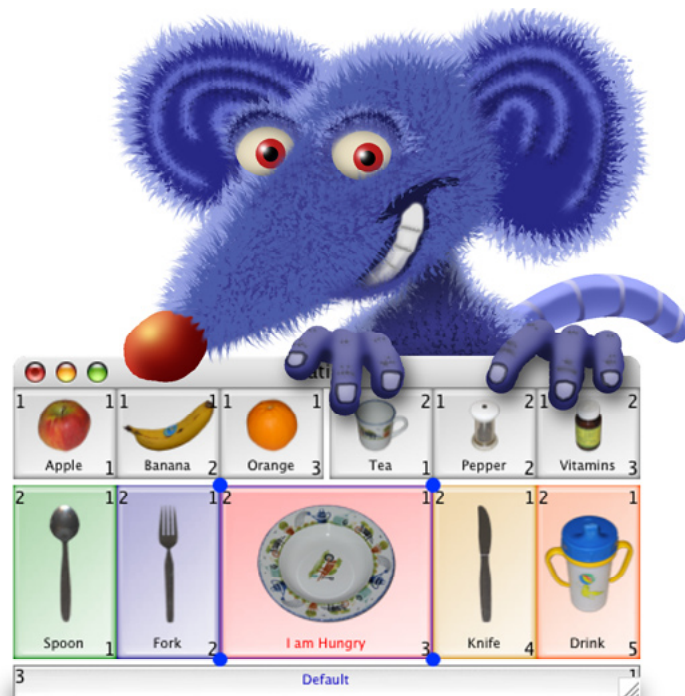


LayoutKitchen® 2.1

for Mac OS X

AssistiveWare Layout Editor



User Manual

by  **AssistiveWare®**



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The LayoutKitchen application icon (which also features on the cover of this manual) was designed by Giesbert Nijhuis using KeyStrokes[®], a HeadMouse[®] and Photoshop[®]. Bill's icons image collection contains icons designed by Bill Lee.

This software was written by David Niemeijer. Special thanks are due to Rudo Niemeijer, Giesbert Nijhuis and the beta testers including, but not limited to: Marie-France Bru, Idvig Dal, Mark Griffin, Satomi Hanaoka, Jeremy Janson, Clair Judas, Bill Lee, Fabrice Montant, Nariki Osugi, Michael Phillips, Rodolphe Racon, Joseph Salinas, and Ian Wolstenholme. We would also like to thank Apple Computer for its technical support in solving the technical issues we faced when developing this application for Mac OS X.

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Manual version 2.1

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Introduction

LayoutKitchen® is an editor for SwitchXS® scan panels, KeyStrokes and Quickclicks keyboards and Proloquo® speech panels. SwitchXS users can use LayoutKitchen to create their own scan panels (sometimes also referred to as scan keyboards or scan arrays) with just those keys, controls and functions they need, thereby greatly enhancing the power and versatility of SwitchXS. KeyStrokes 4 and Quickclicks users can use LayoutKitchen to design custom keyboards with images, colors and fonts to taste and with a variety of keys and functions. Proloquo users can use LayoutKitchen to create their own speech panels for easy access of commonly used phrases or, when images are used on the buttons, to build communication panels for people who cannot read or write. LayoutKitchen requires Mac OS X 10.4 or later.

LayoutKitchen provides many advanced features to create highly customized panels with colored background, labels and buttons, with all kinds of images, and with a variety of powerful functions. Yet, LayoutKitchen is easy to use. Beginners can start by reusing buttons from existing panels and create more complex panels as they become comfortable with LayoutKitchen. To accommodate a variety of users, LayoutKitchen provides both mouse-based (drag and drop) and keyboard-based interfaces (keyboard shortcuts) for many actions and also includes functions making it easier for switch users to design their own panels with limited mouse use.

QuickStart

Using LayoutKitchen is actually quite simple. You install it by dragging LayoutKitchen from the disk image or CD to your hard disk. You double click the LayoutKitchen

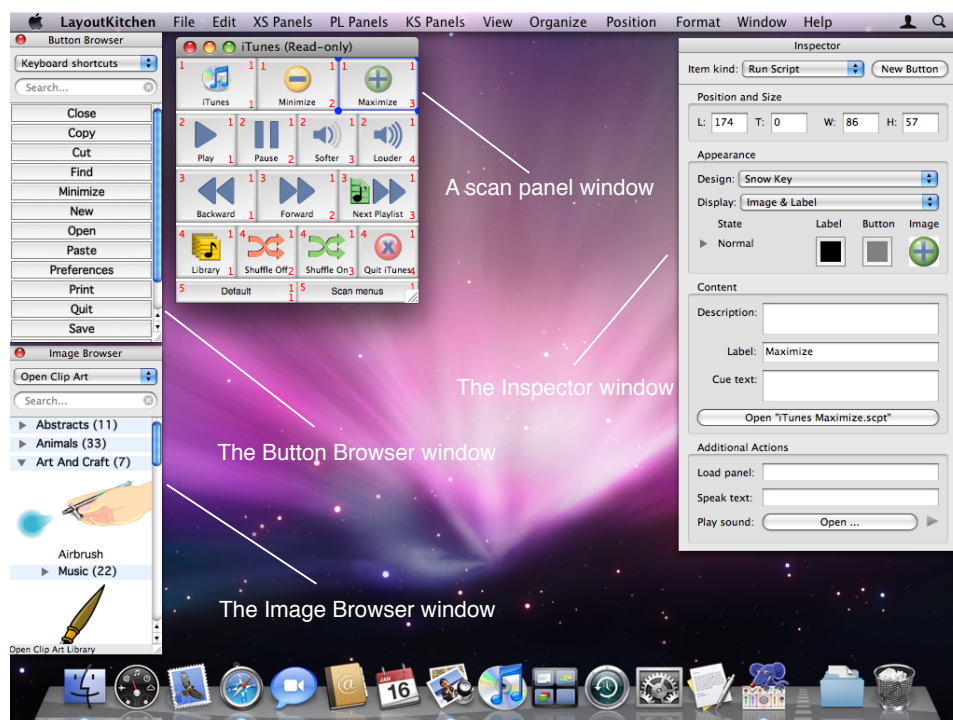


Figure 1. The LayoutKitchen screen.

application icon to load LayoutKitchen. Next, you can create a new panel using the New command from the File menu or you can modify an existing panel by pulling down the XS Panels, KS Panels or PL Panels menus to select, respectively, an existing SwitchXS scan panel, an existing KeyStrokes or Quickclicks keyboard or Proloquo speech panel to use as a starting point. Menu commands are available to organize and arrange buttons and an Inspector window provides direct access to the properties of the selected button(s). Saving the panel to the default location ensures that it will immediately be available for use in SwitchXS, KeyStrokes or Proloquo.

Main features

- Layout editor for SwitchXS, KeyStrokes, Quickclicks and Proloquo.
- Supports coloring of panel background, button labels and buttons.
- Supports full-color images of any size on buttons in many graphic formats (including PNG, TIFF, JPEG, PSD, PDF).
- Adjustable text font, size and style per button.
- Provides drag and drop editing of buttons, colors and images.
- Includes advanced functions to organize and arrange buttons.
- Allows a wide range of functions to be assigned to buttons, from speech to text to AppleScripts and keyboard macros.
- Includes quick-access image and button browsers.

System requirements

LayoutKitchen 2.1 is a Universal Binary that runs on Mac OS X 10.4 and higher. LayoutKitchen requires a minimal screen resolution of 800 x 600 pixels. For optimum performance and access to all features Mac OS X 10.5 or higher is recommended.

Installation

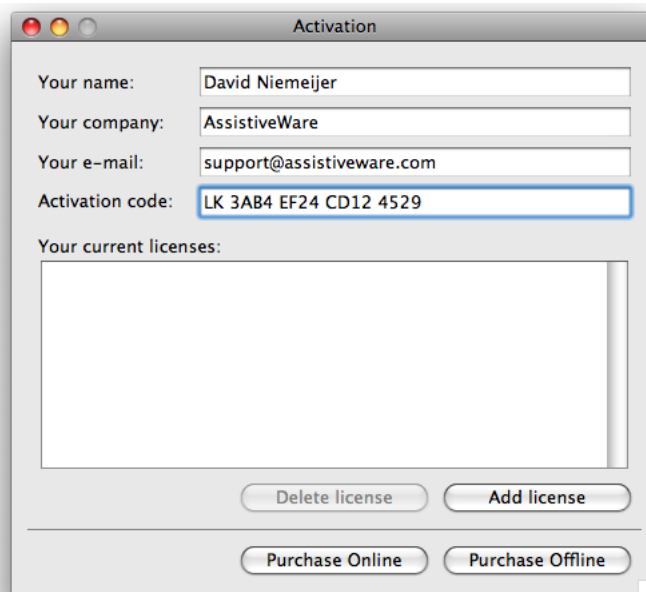
LayoutKitchen is distributed on a Disk Image (a file with the extension .dmg) or a CD-ROM. LayoutKitchen can be installed by mounting the disk image or CD-ROM and dragging the LayoutKitchen Application to your hard disk.

It is recommended that you install LayoutKitchen in the Applications folder.

Activating download copies

In case you have downloaded LayoutKitchen from the Internet, the software will run in a full trial mode. Full trial mode expires after 15 days of use (these need not be consecutive). At that time LayoutKitchen will revert to restricted trial mode in which you will no longer be able to save panels, preferences settings will no longer be saved, and the software will refuse to run for more than 30 minutes at a time. You will need to activate LayoutKitchen to lift these restrictions. If, after your 15-day full trial has expired, you still feel that you require more time to evaluate LayoutKitchen, you can send an e-mail to layoutkitchen.trial@assistiveware.com to get an activation code that will allow you to extend your trial period for at least 7 consecutive days (counted from the moment your extended trial request is received). To lift all restrictions you should purchase a license of LayoutKitchen to obtain a permanent activation code. SwitchXS and KeyStrokes 4 users do not need to purchase LayoutKitchen and can use their SwitchXS or KeyStrokes 4 activation code to activate LayoutKitchen. KeyStrokes 3 users should upgrade to a KeyStrokes 4 activation code to design their own keyboards with LayoutKitchen.

You should enter the activation code as well as your name, company name (if applicable), and e-mail address (if applicable) in the Activation window (select “Activation...” from the “LayoutKitchen” menu) and press the Add License button (see figure 2).



Activation

Your name: David Niemeijer

Your company: AssistiveWare

Your e-mail: support@assistiveware.com

Activation code: LK 3AB4 EF24 CD12 4529

Your current licenses:

Delete license Add license

Purchase Online Purchase Offline

Figure 2. The Activation window

Proloquo users who want to make speech panels with LayoutKitchen for use in Proloquo should also enter the LayoutKitchen activation code in Proloquo. To do this launch Proloquo, go to the Proloquo menu, select “Activation...” and enter the activation code and other relevant details in the Proloquo Activation window and press the Add license button.

Activating CD-ROM copies

In case you obtained LayoutKitchen on a CD-ROM, the application may have been pre-registered for you. In this case, when you first launch LayoutKitchen, an Activation window (see figure 2) will appear with your permanent activation code already pre-entered. Now you will only have to enter your name, company name (if applicable), and e-mail address (if applicable) in the Activation window and press the Add license button. Note that if the Activation window does not appear automatically or a permanent activation code does not appear in the designated field, your copy may not have been pre-registered and you will have to enter the code you obtained from your reseller manually (it may have been written on the disk, the sleeve, a separate piece of paper or may have been sent to you by e-mail). In this case, follow the instructions for activating download copies.

If you do not activate your copy, LayoutKitchen will run in full trial mode for 15 non-consecutive days and after that revert to restricted trial mode. To remove all limitations you should activate your copy by going to the Activation window (select “Activation...” from the “LayoutKitchen” menu) and then follow the above instructions for activating download copies.

Please store your permanent activation code and user information in a safe place in case you need to re-install the software at some point.

Registration

After activating your copy you are kindly requested to register LayoutKitchen online at <http://www.assistiveware.com/register.php> so that we can keep you informed of updates and bug fixes. There are also a number of optional questions on this online form that help us to further improve LayoutKitchen. The information supplied will be kept confidential.

Getting started: Creating your first panel

There are two easy ways to create a panel. The first one is to start out with an existing panel and change and/or remove some of the buttons. The second one is to create a new panel and to copy and paste or drag and drop some buttons from an existing panel onto that new panel. Below both approaches will be briefly discussed.

Starting from an existing panel

To start with an existing panel you go to either the XS panels, KS panels or PL panels menu and select one of the existing panels. Next you can select those buttons you want to remove by clicking on the first button and then shift clicking on the subsequent buttons until you have them all selected. Once you have them selected you can press backspace to delete the buttons or choose Cut or Clear from the Edit menu.

Some buttons you may not want to remove, but instead you want to change them. To change a button, select the button by clicking on it. In the Inspector window you can examine the button's current characteristics and change its kind, appearance or content. With some trial and error you should be able to change it the way you like. If you want the button to mimic some functionality of another existing button, click on that other button, examine it in the inspector and then adjust the first button accordingly. Alternatively, you can duplicate an existing button (Edit menu) and move the duplicate to the new location and make necessary adjustments to its appearance or content.

The Position menu offers all kinds of commands to help you align, spread and size buttons in a consistent fashion. If you have positioned the buttons more or less in the right locations for row column ordering you can also use the Tidy command from this menu to automatically do the finishing touch for you.

SwitchXS scan panels only: If you are creating a scan panel and are done making changes to the individual buttons, you need to ensure that the buttons are properly grouped for scanning. To this end, the buttons can show a group, a subgroup, and a button number (View menu). The group number is shown in the top left of the button, the subgroup number in the top right, and the button number in the bottom right (See figure 3).

SwitchXS scan panels only - continued: Scanning starts by scanning the groups. When a switch is pressed, the scan jumps into the current group to scan the subgroups, a second switch press causes the scan to jump into the current subgroup to scan the items of that subgroup. So you need to group the buttons in a way that you get the right scan order. If you have positioned your buttons in rows (with adjacent buttons touching each other) and have left 2 or more pixels between subgroups you can make use of LayoutKitchen's Automatic Grouping command (Organize menu). This command will automatically group buttons so that you get row – column style of scanning. Normally, it will operate on all buttons, but if you select two or more buttons it will only act on the selected buttons. See figure 3 for an example of how you would position buttons to allow Automatic grouping to work. For more complicated scan arrangements, please see the section "Organizing buttons for scanning".

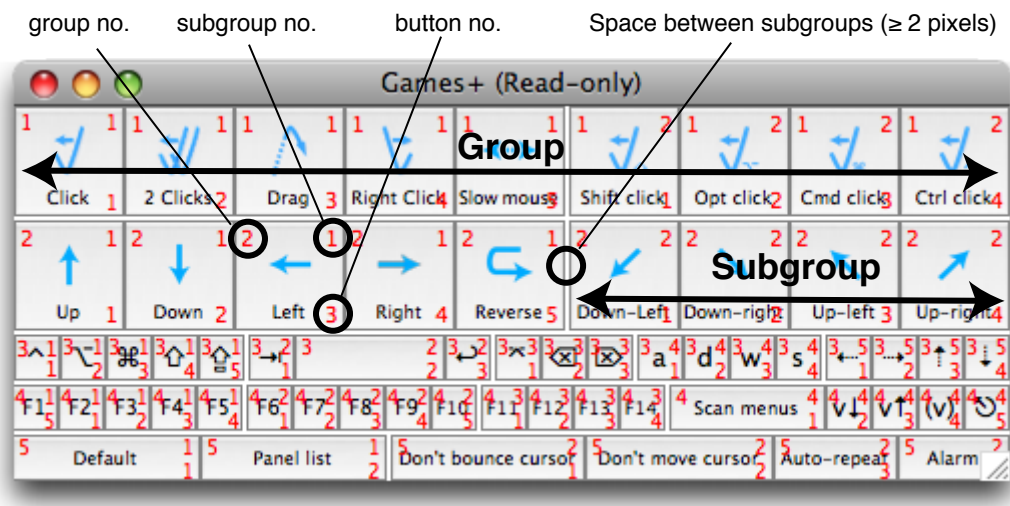


Figure 3. Button organization

Once you are done making changes to the panel you can choose Save As from the File menu to save the modified scan panel. If you do this in the default location (the SwitchXS Scan Panels folder for scan panels, the Keyboards folder for KeyStrokes and Quickclick panels and the Speech Panels folder for speech panels) the panel will right away be accessible in SwitchXS or Proloquo. SwitchXS panels will appear automatically in the Panels menu of SwitchXS, KeyStrokes panels appear in the Keyboard menu of KeyStrokes and Proloquo panels will appear in the Panels menu of Proloquo, ready to load and to be used.

Starting from a new panel

The procedure here is much the same like when you start out with an existing panel (discussed above) except that now you start by creating a new panel by choosing New from the File menu. When you do this, a dialog will come up allowing you to set the properties of the new panel. For now you can ignore most settings and only set the panel type to either scan panel or speech panel depending on whether you want to create a panel for SwitchXS, KeyStrokes and Quickclicks or Proloquo. After clicking OK you will get an empty panel window. The next step is to open one of the existing panels from the XS panels, KS panels or PL panels menu and select those buttons you would like to also use for your new panel. You can use copy and paste or drag and drop to copy the selected buttons over to your new panel. From here on you can proceed as discussed in the second and subsequent paragraphs of the previous section: changing buttons, positioning them, reorganizing them (for scan panels only), and saving.

Creating and modifying buttons

Creating new buttons

To create a new button you must have an existing panel open (select one from the XS, KS or PL panel menus, or choose Open from the File menu) or have a newly created panel open (choose New from the File menu). If you need to make extra space on your panel to add new buttons you can resize the panel just like other windows.

There are several ways to create a new button. The two easiest options are to drag a button over from the Button Browser (which can be shown or hidden from the Window menu) or from an existing panel. The Button Browser is discussed in a later chapter. Here we will focus on how a new button or multiple buttons can be created manually.

First, you set the item kind and the button design for your new button in the Inspector window. You can also preset a color for the button (depending on the button design the color is ignored, used as a fill color or used to colorize the button design) and for the button label. Now you choose New Button from the Organize menu or you click the New Button button in the Inspector window. This will create a button of the preset kind.

Sometimes you may want to create a whole block of buttons with a fixed size and a fixed distance between the buttons. You can do this by selecting New Block of Buttons from the Organize menu. A dialog will appear allowing you to specify how many rows and columns of buttons you want, what the dimensions of the buttons should be in pixels and what the spacing between the buttons should be in pixels.

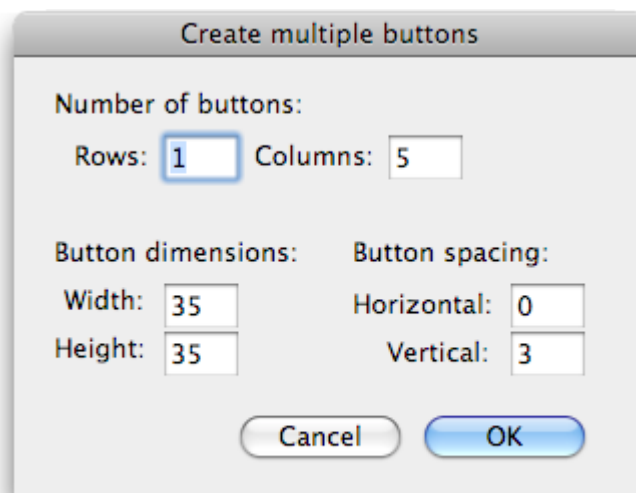


Figure 4. Creating multiple buttons at once

Item kinds

There are a number of different item kinds, all of which can be chosen from the Item kind popup button in the Inspector window. The table below indicates for each of the

item kinds what their function is and whether that item kind can be used for SwitchXS, KeyStrokes, Quickclicks and/or Proloquo.

Item kind	Purpose	SwitchXS	KeyStrokes and Quickclicks	Proloquo
SwitchXS Command	Issue one of the commands built into SwitchXS.	Yes	No	No
KeyStrokes Command	Issue one of the commands built into KeyStrokes.	Yes	Yes	No
LayoutKitchen Command	Issue one of the commands built into LayoutKitchen.	Yes	Yes	No
Proloquo Command	Issue one of the commands built into Proloquo.	Yes	Yes	Yes
Mouse Action	Move the cursor and click the mouse buttons.	Yes	No	No
Key (to type)	Issues a single keystroke. This has the same effect as typing a particular key on a hardware keyboard.	Yes	Yes	No
Message (to speak)	Speaks a text message.	Yes	Yes	Yes
Load Panel	Loads another panel	Yes	Yes	Yes
Text (to type)	Types one or more characters	Yes	Yes	Inserts text into the Proloquo text window
Text Macro	Types a series of keystrokes and/or characters and can be used to trigger keyboard shortcuts (e.g. command-Q to Quit)	Yes	Yes	No
Open Document/ Application	Opens a document or launches an application	Yes	Yes	Yes
Run script	Runs an AppleScript	Yes	Yes	No

Configuring buttons

You use the Inspector window to configure each item. First, you select the button to configure. The Inspector will then show the properties of the selected button (see figure 5). At the top of the Inspector window you can see the item kind. A little below that, the position and size of the button are displayed. Further down are the settings that determine the appearance of the button and finally, at the bottom the content of the button can be configured. Item kind was already discussed above and position and size are pretty obvious and expressed in pixels so we will skip those here.

The button appearance consists of several aspects. The first one is the button design. You can currently choose between the five designs presented in the table below.

Button Design	Properties	Colorable
Transparent Button	No button is displayed. The text label and image are displayed directly on the panel background.	No
Aqua Bevel	The standard Mac OS X button. Darkens when the button is highlighted or turned on.	No
Plain	The button area is “painted” in the selected color without any button-like sculpting.	Yes
Simple Bevel	A simple bevel type button. Darkens when the button is highlighted or turned on.	Yes, button is colorized
Snow	Subtly sculpted button. Darkens when the button is highlighted or turned on.	Yes, button is colorized

The second aspect of a button’s appearance is what will be displayed. Through a popup you can choose between displaying only the image, only the label, or both the label and image. The subsequent aspects involve the label color, the button color, and the

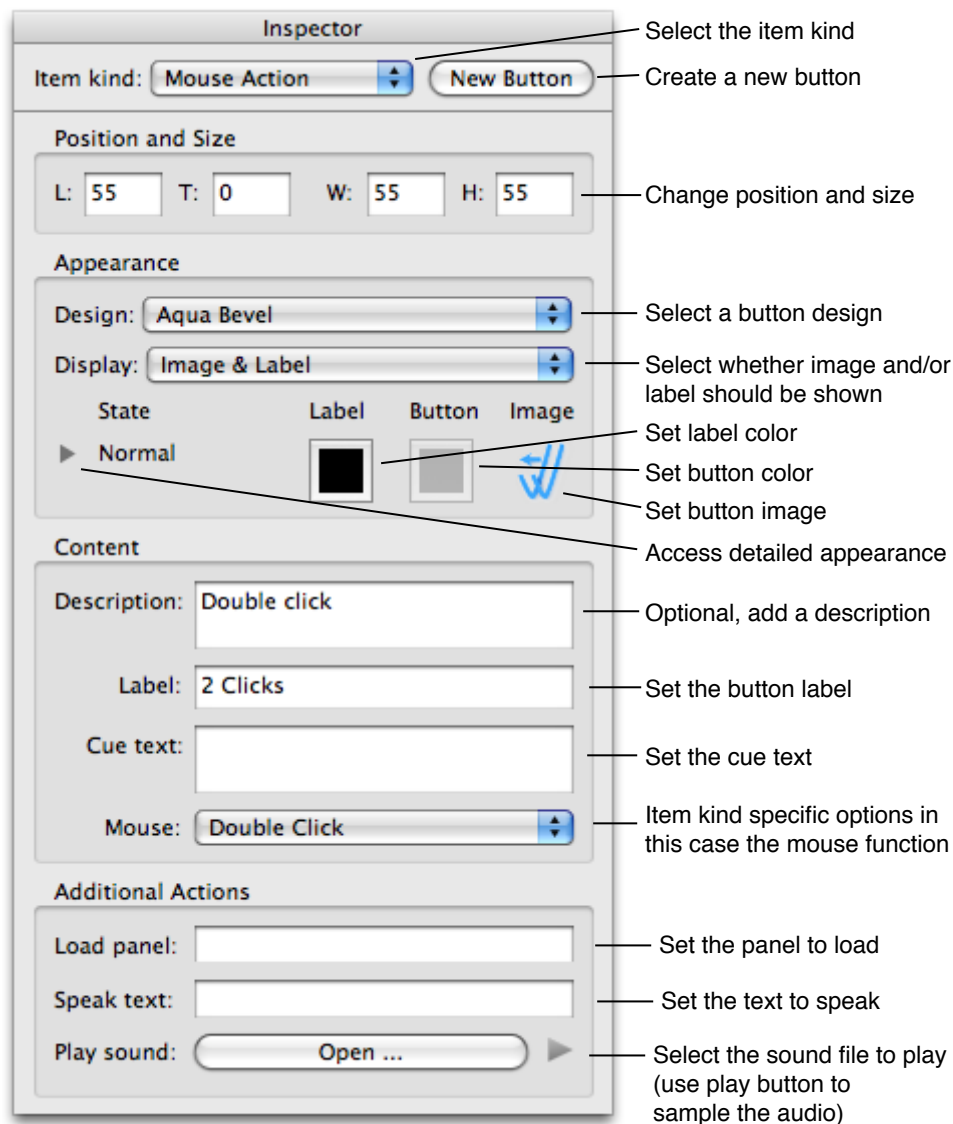


Figure 5. The Inspector window with is various functions

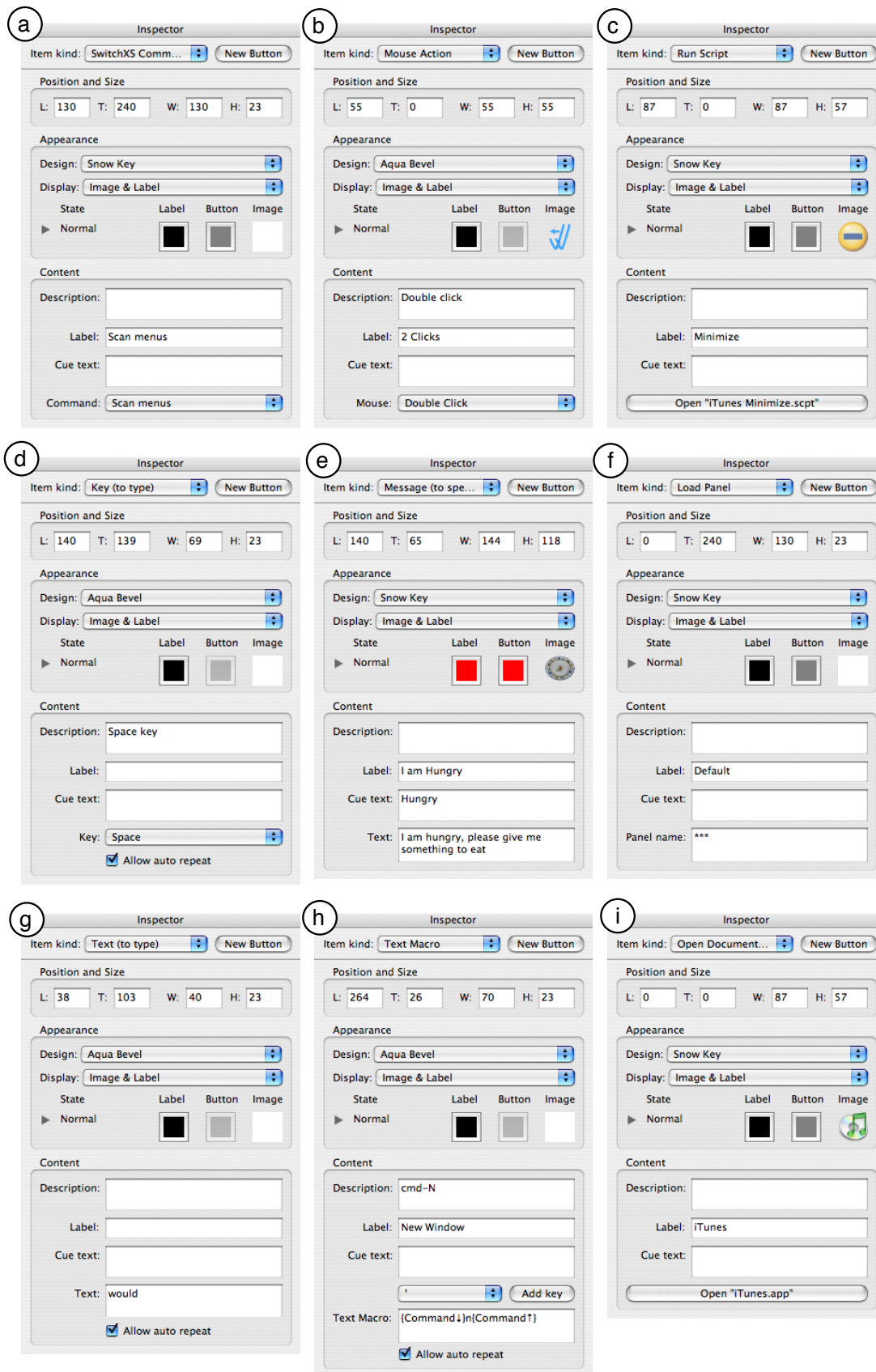


Figure 6. Shows for all major button types what the inspector looks like and what additional fields, buttons and menus are available at the bottom of the content area of the Inspector window

button image. These can be set by clicking on these items in the Inspector window and through the Format menu, both of which will bring up respectively color pickers or a dialog to choose an image file. Label and button colors can also be set by dragging a color from one of these so-called color swatches onto another color swatch or onto a button. Images can also be set by drag and drop of an image file from the Finder on the thumbnail or directly onto a button, or by drag and drop of an image from the Image Browser (discussed in the “The Image Browser” section). Normally, the same colors and image are applied to all four button states. However, if you need more control you can click the disclosure triangle on the left (see figure 5). That will give you access to label and button colors as well as images individualized for each button state. This is further discussed in the section “Advanced button appearance configuration”.

Once you are satisfied with the appearance of your button you can set the button contents. There are a number of fields common to all item kinds. The first field is optional and allows you to store a description of what the button does. The second field contains the label to display on the button. The third common field allows you to provide a cue text that is used for voice feedback during scanning. As each button is scanned this text is spoken so that a user who cannot read or has low vision knows which button is being scanned.

Advanced note: For Run Script buttons the text in the description field is also passed on to the AppleScript allowing you to use the description field to pass information to your script and let your script use that information to adjust its behavior. For example, an AppleScript that starts playing a play list could use this information to determine what play list to play, whereby the description field would contain the name of the play list to play. This allows you to use the same script for multiple buttons and just change the information in the description field to let each button start another play list. Some example scripts are included with LayoutKitchen.

What the other, item specific fields and functions are can best be seen in figure 6. For the command items (SwitchXS, KeyStrokes, Proloquo and LayoutKitchen commands), you can select the command to attach to the button (fig 6a). For the Mouse Actions items you select the mouse action (fig 6b). For the Run Script items you select the script to use (fig 6c). The selected script will be stored inside the panel (so that you can give the panel to someone else to use without having to supply the script file). If you make changes to the script they will not affect your panel until you re-attach the script to the button.

For Key (to type) items you select the key to type and you indicate whether you want the key to be auto-repeatable (fig 6d). Note that auto-repeatable items only actually repeat if auto-repeat is set to On in SwitchXS. For Message (to speak) items you enter the text to be spoken (fig 6e). For Load panel items you enter the name of the panel you want to be loaded. If you want the default panel to be loaded instead of a specific one you need to enter three asterisks (***) as the panel name (fig 6f).

For Text (to type) items you enter the text that should get typed (fig 6g). Just as with Key (to type) you can set whether the button should allow key repeat. In Text Macros you can combine regular text (as in the Text to type items) with key downs and key

ups. For example, to create a button that does command-N (the keyboard equivalent for opening a file), you select ‘command’ from the popup and then click the Add key button. This will insert a command down and a command up instruction. In between the down and up instruction you type the letter N (fig 6h). Also these buttons can be set to allow key repeat or not. For Open Document/Application you select the document or application to open (fig 6i).

Additional actions

In addition to the main action, each button can also execute a number of additional actions. These are visible in the Additional Actions section of the Inspector (see figure 5). The Load panel field makes it possible to load a named panel. This can be used to create, for example, a button that opens an application and then as an additional action also loads a panel specific to that application. Text entered in the Speak text field will be spoken as the main action is being executed. This is useful to provide speech feedback, for example, to mention what application is being loaded after the button was chosen. With Play sound it is possible to select an audio file that will be played when the user chooses the button. This can be used to play a stimulating sound if the user selects a particular button or to play a prerecorded voice message. The little play button on the right side can be pressed to listen to the selected sound.

Changing button label appearance

To set the text font, size and style you need to use the Fonts window (Format menu). Any changes you make there apply to all currently selected buttons. Not all features of the Fonts Window are currently available in all applications (this is a Mac OS X limitation), so changing, for example, the text color in the Fonts Window has no effect on the button labels. What you can change there are Font Family, Typeface and Size. Those settings can be set per button and will be applied to all button states.

There are various ways to set the label color for the selected buttons:

- 1) you can use the Label Color command from the Format menu;
- 2) you can drag a color from the Inspector’s label color color-swatch onto a button;
- 3) you can double click on the Inspector’s label color color-swatch.

The label color can be set per button. You can even assign a different label color to each button state as is explained in the section “Advanced button appearance configuration”.

Changing button colors and images

There are various ways to set the button color for the selected buttons:

- 1) you can use the Button Color command from the Format menu;
- 2) you can drag a color from the Inspector’s button color color-swatch onto a button;

3) you can double click on the Inspector's button color color-swatch.

The button color can be set per button, but coloring is ignored by the Transparent button and Aqua Bevel button designs. How color is applied depends on the button design. Plain buttons are painted in the selected color, but Simple Bevel and Snow Key button designs are instead colorized (which typically makes the color lighter and softer). The section "Advanced button appearance configuration" explains how to set different button colors for different button states.

To set a button image you have various options:

- 1) you can use the Choose Image... command from the Format menu (and the Remove Image command from that same menu if you want to get rid of the image again);
- 2) you can drag an image file from the Finder onto a button;
- 3) you can drag an image file from the Finder onto the image thumbnail in the Inspector;
- 4) you can double click the image thumbnail;
- 5) you can drag an image from the Image Browser onto a button;
- 6) you can double click on an image in the Image Browser. (The Image Browser is explained in more detail in the section "The Image Browser".)

Pick whatever method is most convenient for you.

You can use almost any image file format. PDF vector files are often a good choice if you want the image to look good at any scale without getting huge panel files. For photo's JPEG (or JPG) images are often a good choice. If you want images with a transparent background the PNG format is recommended. This works well for icon like images and object photos. LayoutKitchen further supports all QuickTime convertible image file formats.

For all images except the PDF images, LayoutKitchen can limit the dimensions of the image that is stored inside the panel. By default, images larger than 128 x 128 pixels are scaled down and stored at 128 x 128 pixels instead of full-size. This dramatically reduces the size of the panel files, while you as a user do not need to worry about the size of the image file you drag onto a button. LayoutKitchen takes care of all that for you. However, if you want to make a panel with buttons that are larger than 128 x 128 pixels you can change the default setting for that panel by choosing Panel Properties... from the View menu and clicking on the disclosure triangle to access the advanced settings and changing the pixel size limit or even turning it off. This, by the way, is also the place where you can set the margin that LayoutKitchen should maintain around your images. By default, a 20% margin is kept around the image so that images do not flow from edge to edge, covering up the entire button.

Copying and pasting styles

When you are happy about the design of a particular button you can copy the style and paste it onto other buttons. First select the button you want to copy the style from. Next, go to the Edit menu and choose Copy Style. Then select the buttons you want to change and choose Paste Style from the Edit menu. This will copy the font style, size and color as well as the button design and color from the original button to the selected buttons.

Advanced button appearance configuration

In most cases it is sufficient to assign one label color, one button color and one image to each button. However, in some cases you want more flexibility. For example, for a low vision user it may be useful if buttons have a different color when they are highlighted during scanning (or the mouse is held down on the button). In other cases, a button may not only have a normal state but also an on state. This is, for example, the case for the auto-repeat toggle button of the Universal scan panel. Normally, a darkening of the button indicates the difference. For some users that may not be enough and then it can be useful to use different button or label colors or even different images. If you want to be able to have this level of control you need to click on the disclosure triangle on the left side of the Appearance settings in the Inspector window. When you click it you will see something like figure 7. You can set colors and images for up to 4 different Button states.

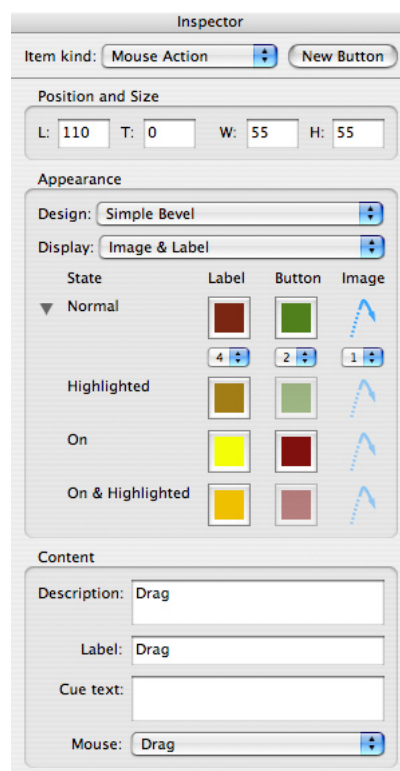


Figure 7. The detailed appearance settings

Normal	The Normal state is the buttons neutral state. It is how buttons will normally appear.
Highlighted	When a button is scanned or pressed with the mouse down it will be highlighted, this is the Highlighted state.
On	When a button can be turned on (after you have selected it by scanning or with the mouse) it also has an On state. Typically, the On state is indicated on the Mac by a button that is darker than normal, but not as dark as during highlighting. But that darkening may not be enough for a visual impaired user.
On & highlighted	The On & Highlighted state you get when you scan or click on a button that is On.

In some cases, you will want to just use different colors for Normal versus ON states and work with the automatic darkening of the Highlighted and On & Highlighted states. In other cases, you may want to set different colors for all 4 states. To simplify drag and drop for colors and images and, in the case of images, also to reduce storage you can use the little popup menus below the Normal color-swatches and image thumbnail to choose between 1, 2, and 4 different colors or images to use for a particular button. Selecting 1 means that one color will be used for all states and that any color you set will automatically propagate to the other states. Selecting 2 means that you can use different colors for Normal and On states and that when you set a color it will automatically propagate to the associated highlighted state. Selecting 4 means that you can assign a different colors for each state. For images the same rules apply, but while allowing multiple states for the colors even if you do not use different colors for each state is not a problem, for images it is advisable not to allow for more states than you really use for a button, because for each state an image will be stored inside the panel, making your panel file larger.

To see how your buttons look in the various button states you can use the View menu to change the state in which the buttons are displayed in the editor window. This way you can see at once how all your buttons will look when pressed or scanned (Highlighted state) or when turned on (On State) or when scanned or pressed while the buttons are on (On & Highlighted State). When you have selected a particular state for viewing and then drag a color or image onto a button the color or image will be applied to that particular state, and of course, where applicable propagating to the other states depending on how you setup the little popup menus for that button as discussed in the previous paragraph.

If all of this sounds pretty scary and complicated, just click the little disclosure triangle on the left side of the Appearance settings of the Inspector Window to hide all these details and come back to this section later, whenonce you really need this level of control.

Positioning and organizing buttons

Positioning and sizing buttons

There are several ways to position and size your buttons. The most straightforward approach is to use drag and drop to position the buttons more or less where you want them. Next, you can fine-tune the position using either the arrow keys to pixel by pixel

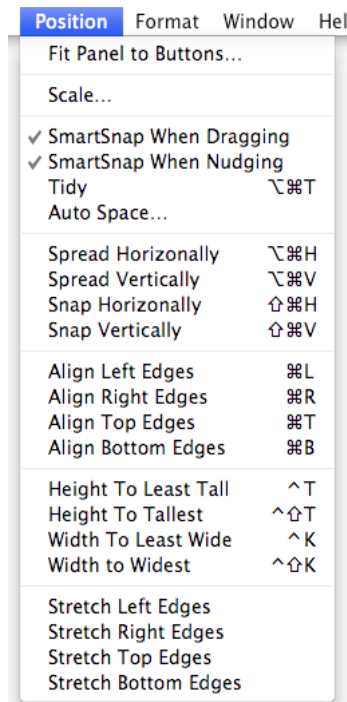


Figure 8. The Position menu

nudge the selected buttons in place or for individual buttons to use the coordinate fields of the Inspector Window to change position and size.

LayoutKitchen offers a SmartSnap feature to help you position buttons neatly next to each other. Two kinds of SmartSnap are available, one for when you drag and one for when you nudge the selected buttons with the arrow keys. You can set the distances within which snapping takes place in the Preferences, while you can turn SmartSnapping on or off through menu items in the Position menu.

To resize the selected buttons you can use the coordinate fields in the Inspector or drag one of the four blue handles at the edges of one of the selected buttons. Note that if you find these handles too small or too big you can change their size in the Preferences. You can also use the Scale command from the Position menu, which will not only scale the size of the selected buttons, but will also reposition them such that the buttons will not start overlapping.

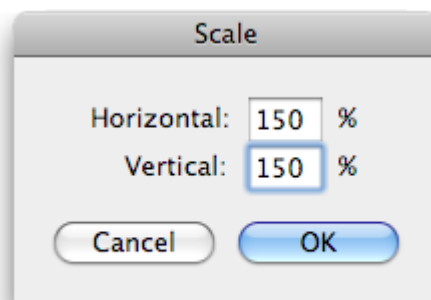


Figure 9. The Scale dialog

For easier positioning multiple buttons relative to each other you can use the commands from the Position menu (see figure 8). If you want to reposition multiple buttons so that the amount of space between the buttons becomes equal, you can use the Auto Space feature from the Position menu. A dialog will appear allowing you to set the horizontal and vertical space between buttons in pixels. For row – column ordered panels you can also use the Tidy command, which will try to nudge and stretch those buttons in place that are positioned almost right, but not quite perfect yet. It will try to align the tops of the rows, make buttons in the same subgroup touch on the left and right edges, and size them to match the tallest of the subgroup. This command is very powerful when used correctly, but it will not help you to deal with randomly positioned buttons. It tidies buttons that are already almost in place; it does not clean up a total mess. If nothing or just one button is selected Tidy applies to the whole panel, otherwise only to the selected buttons.

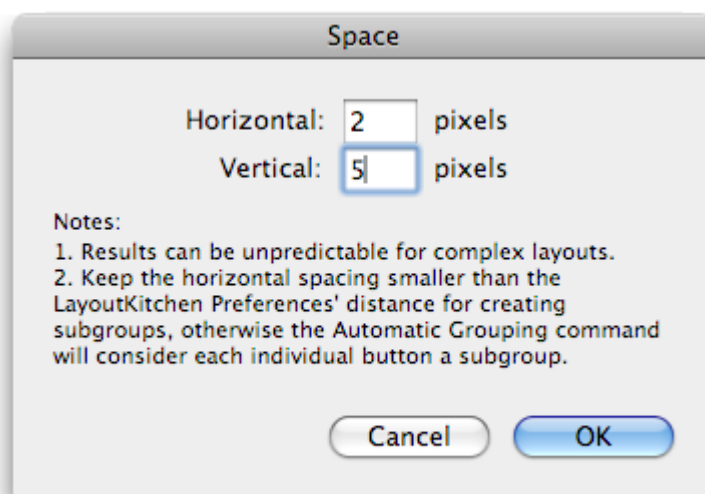


Figure 10. The Auto Space dialog

The Spread Horizontally and Spread Vertically commands spread the selected buttons between respectively, the left and right most buttons and the top and bottom most buttons. With Spread Horizontally the selected buttons will all get the same width and will become top aligned. With Spread Vertically the selected buttons will all get the same height and will become left aligned.

The Snap Horizontally and Snap Vertically commands do not spread but snap the selected buttons together respectively, stacking them onto the left most button and onto the top most button. With Snap Horizontally the selected buttons will not change in size, but any space between the buttons will be removed and they will become top aligned. Snap Vertically follows the same principle but here the buttons will become left aligned.

The four Align commands do exactly what their names suggest and are applied to the current selection.

Height To Least Tall and Height To Tallest give all the selected buttons the same height. The first one gives them the height of the least tall button and the second one of the tallest button. The Width to Least Wide and Width to Widest follow the same principle

but adjust the widths of the selected buttons. These commands can be very useful if you have, for example, multiple buttons in a row, but some are a bit differently sized than the other buttons and you want to give them all the exact same dimensions.

Once you have moved and resized your buttons you may want to shrink the panel to fit snugly around the outermost buttons. Use the Fit Panel to Buttons command from the Position menu to let LayoutKitchen automatically resize your panel such that an edge is kept around the outermost buttons of exactly as many pixels as you want.

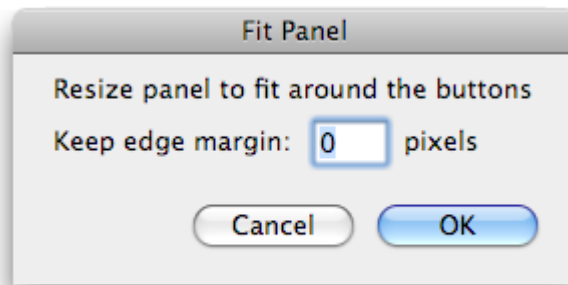


Figure 11. The Fit Panel dialog

Important note: For optimal panel performance it is important, especially for SwitchXS scan panels, not to have overlapping buttons. In the Edit menu there is a command called “Select Overlapping Items” that can help you locate overlapping items so that you can then reposition or resize these items to remove the overlap. When you use this command, items that overlap with other items will be selected. To remove the overlap for an item you can either change the size and/or position of that item or change the size and/or position of the neighboring item that is overlapping with it. After making changes you should choose the “Select Overlapping Items” again to see if there are any remaining overlapping items that need fixing. Repeat this process until after choosing “Select Overlapping Items” a message comes up that there are no overlapping items. If you get that message you can be sure your panel has no overlapping items and can be drawn with maximum performance. The larger and more complex your panel is the more important it is that you make sure there are no overlapping items.

Organizing buttons for scanning

This section is only relevant if you want to design scan panels for SwitchXS, because it discusses how to organize your buttons to get the right scanning order. After you have done the layout of a new scan panel or made changes to an existing one you need to ensure that the buttons are properly grouped for scanning. To this end, the buttons can show a group, subgroup, and item number (View menu). The group number is shown in the top left of the button, the subgroup number in the top right, and the item number in the bottom right (see figure 3). Scanning starts by scanning the groups and when a switch is pressed the scan jumps into the current group and scans the subgroups, the next switch press causes the scan to jump into the current subgroup and scan the items of that subgroup. So you need to group the buttons in such a way that you get the right scan order.

The simplest way to group buttons is to use the Automatic Grouping command from the Organize menu. It will automatically group buttons in a way that you get a row – column style of scanning. Normally, it will operate on all buttons, but if you select two or more buttons it will only act on the selected buttons. See figure 3 for an example of how you would position buttons to allow Automatic grouping to work. Automatic Grouping does not work right under all conditions. Before using it, you need to position your buttons in rows (with adjacent buttons touching each other) and leave 2 or more pixels between subgroups. You cannot use automatic Grouping if you organize your buttons on column – row order (which is a-typical for scanning anyway), or use some sort of free positioning with some parts of the panel in row column ordering and other parts in column – row ordering. In the latter case, you may still be able to apply it to the row – column ordered part by selecting just those buttons.

If you need more control or want a non-standard scanning order you can use the Group and Subgroup commands (Organize menu) to manually group and subgroup the selected buttons. In that case, you typically first select all buttons you want to have in a particular group and apply the Group command. Next, if a row has many buttons you may want to make subgroups for that group. To do that, you select the subset of buttons that you want to have in a subgroup and apply the Subgroup command. You repeat this for each subgroup you want to create within the group you made earlier. In this way, you can create multiple subgroups for each group. If you notice, by looking at the little numbers on the buttons that the groups, subgroups or items are not in the right order you can use the Bring Forward and Send Backwards commands to reorder individual buttons within their group or subgroup. In a similar way, Bring Subgroup Forward/Send Subgroup Backward and Bring Group Forward/Send Group Backward commands can be used to reorder respectively subgroups and groups.

When you are done organizing the buttons for scanning you save the panel, go into SwitchXS and test the new panel there.

Selecting buttons

For *mouse users* the easiest way to select buttons is to click them with the mouse and change or extend selections respectively using command-click and shift-click, just as in most Mac OS X applications. For *switch users* or people who rely on *keyboard access* using the mouse is not always that easy. The edit menu therefore has a number of extra selection features not found in most other applications. There are commands to select an entire group or subgroup of buttons (see previous section on grouping), to select the next button and to extend the selection one button.

Panel properties

When you create a new panel using the New command (File menu) a dialog will be presented allowing you to set some properties for the newly created scan panel. You can change those settings later, if you want, by accessing this dialog through the Panel Properties... command in the View menu.

The Panel Properties dialog allows you to set the panel type to either Scan panel for use in SwitchXS or Speech panel for use in Proloquo. You can also set the background color to use for the panel. Those are the basic settings. To access the more advance settings you need to click on the little disclosure triangle next to “Advanced settings”. See figure 12.

In the advanced settings, you can set the language for the Panel. In most cases you should keep this setting to multilingual so that your panel will be available in the panel menu of SwitchXS or Proloquo, irrespective of the language in which those applications run. However, if you make a panel that is going to be distributed to other people and you already know it will only be used by people running SwitchXS or Proloquo in one of the specifically listed languages that you can select in the language menu you may set it to that particular language. This way the panel will not show up in the list if the user runs the application in another language. This prevents such a user from being presented with a panel using symbols or key arrangements that have no meaning in that language.

The “Do not show in SwitchXS or Proloquo panel menu” checkbox can be used if you do not want a panel to be listed in these menus, for example, if you only want to provide access to it by loading it from another panel (through a Load panel button). The “Read-only” checkbox can be used if you have just made the perfect panel and want to be sure that you, or someone else you want to give it to, does not accidentally change the panel. A read-only panel can be opened in LayoutKitchen and you can use Save As to save it, but you cannot use Save to modify it directly.

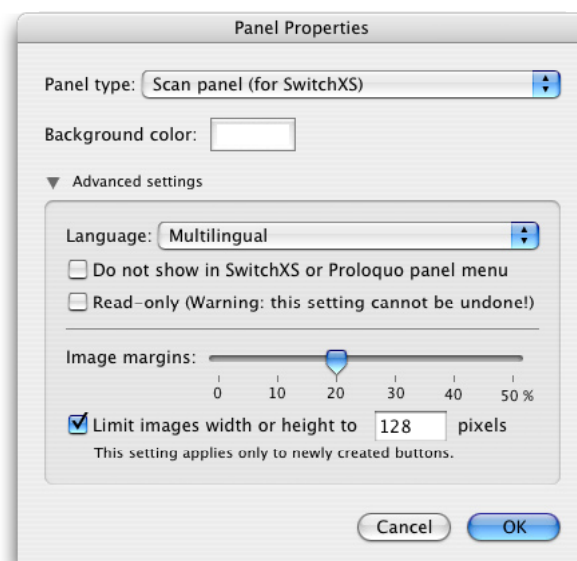


Figure 12. The Panel Properties dialog

The Image margins slider allows you to set the margin LayoutKitchen should keep around your images. Set it to 0% if you want your images to go from edge to edge and cover the entire button.

The Limit images widths or height checkbox and the associated pixel size setting is there to help you keep panel files small, even when a lot of images are used. If you never make buttons larger than, say 48 pixels, you can set this value to 48 and then even if you drag a 2 MB, page-sized Photoshop file onto an image LayoutKitchen will just store a 48 pixel thumbnail of the image in the panel instead of expanding your panel file size by 2 MB. If, instead, you want to make a panel with buttons up to 250 pixels, be sure to set this setting to 250 pixels to be sure that your image are displayed at optimal quality even on your large buttons. Note that this setting is applied to newly created buttons (or newly attached images) and does not affect images you already attached to buttons. In this way, it is possible to temporarily change the image size for some buttons and subsequently, using the Panel Properties dialog again, to create the remainder of the buttons with the image size you normally prefer.

The Image Browser

The Image Browser provides convenient quick access to collections of images. Instead of having to drag images from the Finder onto your buttons, you can have all the images at your fingertips inside LayoutKitchen. You can then either drag images from the image browser onto buttons or select a button and double click on an image in the Image Browser to apply the image to the selected button. The Image Browser can be accessed from the Format menu.

Some image collections are provided with LayoutKitchen, others will be available as free downloads from our web site. Yet other collections will be made available for sale, such as the Picture Communication Symbols™ (PCS) from Mayer-Johnson that contains close to 8000 fully-resizable color images. For purchased image collections you will typically have to enter an activation code in the Activation window accessible through the LayoutKitchen menu.

You also can easily make your own collections. Just put the images you want to have in a collection in a folder. If you want, you can even create subfolders to make a hierarchical collection. Then you open the Image Browser in LayoutKitchen (Format menu) and choose New collection... from the popup menu at the top of the Image Browser window. After you select the folder with your images, you will be presented with a dialog that allows you to provide a copyright notice and a URL. The copyright will be displayed at the bottom of the Image Browser window when your collection is active and if you click on that notice you will be taken to the url.

When making image collections there are three things you should keep in mind. Firstly, images are stored in their original size so if you use a lot of very larger images you will be creating huge files that are slow to access. It is therefore recommended that you first size your images up to the maximum dimension you would want to use on buttons and only after that create your image collection. For example, if you have made photos with a digital camera and imported them in iPhoto you would choose the export command

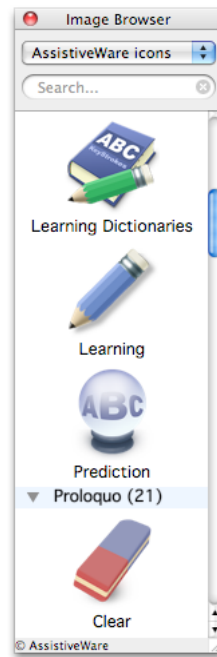


Figure 13. The Image Browser window

in iPhoto (Sharing menu in iPhoto 5) and then instead of exporting at full-size you would click the “scale images no larger than” radio button and enter for example 100 or 200 for the width. Next in LayoutKitchen you would make your collection from the folder of exported images.

Secondly, LayoutKitchen image collections are read-only and cannot be modified. If you want to change a collection you need to re-create it from your original folder with images. If you give it the same name it will replace the previous one. Also, because the collections cannot be modified you need to give your images names in the Finder (or in iPhoto) before you create your image collection in LayoutKitchen.

Finally, there are copyrights on many images and photos so while you can in principle distribute image collections to other LayoutKitchen users you should ensure that you are not breaching the copyrights of the original owners of the images. This does not only apply to images that you purchased, but also to images someone you know made and gave you. Always ask permission before sharing. If you have made an image collection from your own images and wish to share them with all LayoutKitchen users please contact us and in most cases we will be happy to discuss with you how it can be made available to other users.

The Button Browser

The Button Browser offers quick access to many common button types, such as keys, common words, KeyStrokes commands, mouse functions, applications and more. To use a button, select the appropriate type from the popup menu in the button browser and then scroll until you find the button you want. Next, just drag it into the panel you are working on. It will take the size, color and style from the currently selected button, making it easy to create a series of buttons in the same style. Just start by selecting

a button that has the right size and style and then drag in buttons from the Button Browser. You can align a new button to existing buttons in your panel by dragging it such that you release it when the top and left of the dragged item align correctly with the button you want to place it next to.

Note for advanced users: You can also create your own button collections for use in the Button Browser. First, create a panel with all the buttons you want to have in your button collection. Then choose Save As and look for the Button Collections folder (located in ~/Library/Application Support/AssistiveWare Support/, whereby ~ is the user home folder). Save the panel into that folder and the Button Browser will automatically list the new collection in the popup menu. If you later want to add other buttons to the button collection or remove buttons, go to the Open item of the File menu and look for the Button Collections folder, open your button collection, make changes and choose Save from the File menu.



Figure 14. The Button Browser window

Preference settings

Accessing the preferences

The LayoutKitchen Preferences can be accessed through the Preferences command from the “LayoutKitchen” menu.

In most cases the default preference settings will be fine but once you gain more experience with LayoutKitchen you will appreciate the ability to fine-tune LayoutKitchen’ powerful features to your specific needs or preferences.

Show panels for is used to limit the number of panels displayed in the XS Panels, KS panels and PL Panels menus to a particular language. Panels can currently be set to be multilingual, English, French, or Japanese. You can choose the have panels for all languages listed in the menus or just those for a specific language.

Selection handle size is used to set the size of the blue circular handles that are shown on select buttons to allow resizing of the buttons. If you have difficulty positioning your cursor precisely you can increase the handle size to meet your needs.

SmartSnap within distance is used to set distance within which a button will snap to other buttons when moved. Separate values can be chosen for dragging and for nudging with the arrow keys.

Create a subgroup if buttons are at least X pixels apart is used by the Automatic Grouping feature that helps adjusting the scan order for SwitchXS panels. If the horizontal distance between two adjacent buttons is greater than this value, the Automatic Grouping function will create a subgroup.

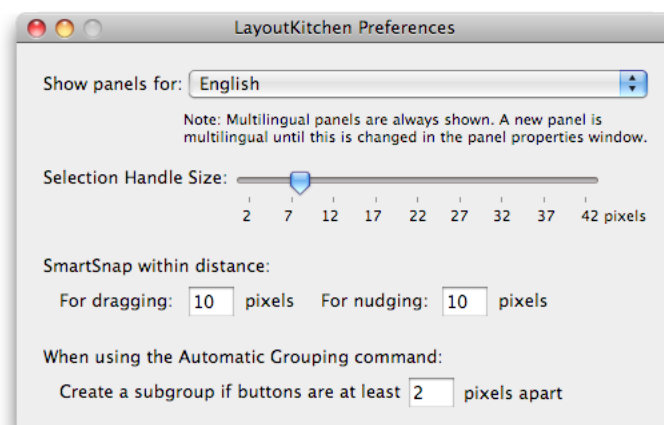


Figure 15. The LayoutKitchen preferences

Tips and Tricks

This section describes a few tips and tricks when using LayoutKitchen.

Controlling LayoutKitchen with SwitchXS

Many LayoutKitchen functions can be accessed directly from SwitchXS without using the mouse. There is a LayoutKitchen scan panel that provides access to some of the most important functions, but there are many more functions that, if you use them frequently, you may want to put in a scan panel. Some of these are available through a LayoutKitchen command item allowing you to create a button that directly accesses these functions; others can be triggered using keyboard shortcuts and can thus be defined in the form of a TextMacro button. See the included LayoutKitchen scan panel for examples on how such buttons can be constructed.

Keeping the size of panel files limited

If you use a lot of images on your buttons you will see the size of your panel files grow rapidly. There are several ways to keep panel size down. The first way is to not use bitmapped images but instead use vector images stored in PDF files. You can create such images using for example Adobe Illustrator®. Vector files that store the coordinates and other characteristics of lines and other objects require much less space than bitmapped images that store an image as a collection of pixels. The second way is to use the Panel Properties window (accessible through the View menu) and set the maximum image size. If a maximum image size is set LayoutKitchen automatically shrinks imported bitmap images (such as PNG, TIFF, JPEG files) to this maximum size, thereby reducing the size of the panel file. If you change this setting it applies to all newly imported images for that panel. Which maximum size is appropriate for you depends on the size of the buttons you intend to make. If you make small buttons 32 or 48 pixels may be more than sufficient, but if you create very large buttons you may find that the default 128 pixels may not be enough to get good looking images on your buttons.

When to use which image type?

LayoutKitchen can put almost any image type on a button, but some image types are more appropriate than others. For photos JPEG images are recommended as these are highly compressed and keep the panel file size small. If you want your images to have a transparent background so that through the “holes” of the image you still see the button you should either use vector PDF files that can retain transparency or create PNG image files using an application such as Adobe Photoshop®. Vector PDF files typically take up little space (if a PDF image file is large it probably contains one or more bitmapped images and is better not used) while PNG files can get quite large.

Using one panel for SwitchXS, KeyStrokes and/or Proloquo

The panel file format for SwitchXS, KeyStrokes and Proloquo is identical so it is easy to create a panel once and save it for SwitchXS (in the SwitchXS Scan Panels folder

of the AssistiveWare Support folder) or for KeyStrokes (in the Keyboards folder of the AssistiveWare Support folder) and for Proloquo (in the Speech Panels folder of the AssistiveWare Support folder) from LayoutKitchen. Proloquo will simply ignore those buttons it cannot handle such as key and mouse buttons. Similarly, KeyStrokes will ignore buttons with mouse functions that make sense for a switch user using SwitchXS, but not for a mouse user using KeyStrokes. Designing a panel once and then reusing it is useful for communication panels that you want to design only once and then let switch users use through SwitchXS and mouse users through Proloquo. It is also practical if you want, for example, a keyboard panel to be used by both SwitchXS and KeyStrokes users or if you want to migrate a KeyStrokes users with a progressive disability to SwitchXS, because the user can continue to use the familiar keyboards, but now access them with SwitchXS.

Known issues

Inspector window popup menu visual glitch

In some versions of Mac OS X the popup menus in the Inspector show a strange small visual glitch in the top left corner. This does not affect operation in anyway and has been fixed by Apple in 10.4 (Tiger)

Support

Support steps

- Step 1. Check this manual and/or consult the LayoutKitchen help function. This help function can be accessed through the “Help” menu when Layout-Kitchen is the active (front-most) application.
- Step 2. Consult the dealer where you purchased LayoutKitchen.
- Step 3. Contact your local distributor (see below for details).
- Step 4. If none of the above help or if you purchased directly with AssistiveWare, send an email to LayoutKitchen@assistiveware.com

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Please find below a list of the current local distributors. Note that this may change over time and that the latest information on local distributors is always available at <http://www.assistiveware.com/resellers.php>

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Everywhere else	AssistiveWare (<i>email only support in English, French or Dutch</i>) Van Speijkstraat 73-D 1057 GN Amsterdam The Netherlands Europe FAX: +31-20-6128266 Email: LayoutKitchen@assistiveware.com Web: http://www.assistiveware.com	AssistiveWare (<i>email only support in English, French or Dutch</i>) http://www.assistiveware.com/purchase.php

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