General

console   - Control the console on systems without a real console
console **title** ?string?
console **hide**
console **show**
console **eval** script
destroy   - Destroy one or more windows
destroy ?window window ...?
tk   - Manipulate Tk internal state
tk **appname** ?newName?
tk **caret** window ?-**x** x? ?-**y** y? ?-**height** height?
tk **scaling** ?-**displayof** window? ?number?
tk **useinputmethods** ?-**displayof** window? ?boolean?
tk **windowingsystem**
tkerror   - Command invoked to process background errors
tkerror message
tkwait   - Wait for variable to change or window to be destroyed
tkwait **variable** name
tkwait **visibility** name
tkwait **window** name
winfo   - Return window-related information

winfo **atom** ?-**displayof** window? name	winfo **reqwidth** window
winfo **atomname** ?-**displayof** window?	winfo **rgb** window color
id	winfo **rootx** window
winfo **cells** window	winfo **rooty** window
winfo **children** window	winfo **screen** window
winfo **class** window	winfo **screencells** window
winfo **colormapfull** window	winfo **screendepth** window
winfo **containing** ?-**displayof** window?	winfo **screenheight** window
rootX rootY	winfo **screenmmheight** window
winfo **depth** window	winfo **screenmmwidth** window
winfo **exists** window	winfo **screenvisual** window
winfo **fpixels** window number	winfo **screenwidth** window
winfo **geometry** window	winfo **server** window
winfo **height** window	winfo **toplevel** window
winfo **id** window	winfo **viewable** window
winfo **interps** ?-**displayof** window?	winfo **visual** window
winfo **ismapped** window	winfo **visualid** window
winfo **manager** window	winfo **visualsavailable** window
winfo **name** window	?includeids?
winfo **parent** window	winfo **vrootheight** window
winfo **pathname** ?-**displayof** window?	winfo **vrootwidth** window
id	winfo **vrootx** window
winfo **pixels** window number	winfo **vrooty** window
winfo **pointerx** window	winfo **width** window
winfo **pointerxy** window	winfo **x** window
winfo **pointery** window	winfo **y** window
winfo **reqheight** window	

wish   - Simple windowing shell
wish ?fileName arg arg ...?

OPTIONS:	-**sync**
-**colormap** new	-**use** id
-**display** display	-**visual** visual
-**geometry** geometry	- -
-**name** name	

wm   - Communicate with window manager

wm **aspect** window ?minNumer	wm **group** window ?pathName?
minDenom maxNumer	wm **iconbitmap** window ?bitmap?
maxDenom?	wm **iconify** window
wm **attributes** window	wm **iconmask** window ?bitmap?
wm **attributes** window ?option?	wm **iconname** window ?newName?
wm **attributes** window ?option value	wm **iconposition** window ?x y?
option value...?	wm **iconwindow** window ?pathName?
wm **client** window ?name?	wm **maxsize** window ?width height?
wm **colormapwindows** window	wm **minsize** window ?width height?
?windowList?	wm **overrideredirect** window ?boolean?
wm **command** window ?value?	wm **positionfrom** window ?who?
wm **deiconify** window	wm **protocol** window ?name?
wm **focusmodel** window	?command?
?active|passive?	wm **resizable** window ?width height?
wm **frame** window	wm **sizefrom** window ?who?
wm **geometry** window ?newGeometry?	wm **stackorder** window
wm **grid** window ?baseWidth baseHeight	?isabove|isbelow? window?
widthInc heightInc?	wm **state** window ?newstate?

wm **title** window ?string?	wm **withdraw** window
wm **transient** window ?master?	

Resources and Options

colors   - symbolic color names recognized by Tk (see separate quickcard)
colorname #RGB #RRGGBB #RRRGGGBBB #RRRRGGGGBBBB
cursors   - mouse cursors available in Tk (see separate quickcard)
general: arrow crosshair ibeam watch xterm
font   - Create and inspect fonts.
font **actual** font ?-**displayof** window? ?option?
font **configure** fontname ?option? ?value option value ...?
font **create** ?fontname? ?option value ...?
font **delete** fontname ?fontname ...?
font **families** ?-**displayof** window?
font **measure** font ?-**displayof** window? text
font **metrics** font ?-**displayof** window? ?option?
font **names**
   FONT OPTIONS: -**family** name -**size** size -**weight** weight -**slant** slant
       -**underline** boolean -**overstrike** boolean
   FONT METRICS: -**ascent** -**descent** -**linespace** -**fixed**
   FONT DESCRIPTION:
      [1] fontname
      [2] systemfont
      [3] family ?size? ?style? ?style ...?
      [4] X-font names (XLFD)
      [5] option value ?option value ...?
   MS Windows: system ansi device systemfixed ansifixed oemfixed
   Macintosh: system application
image   - Create and manipulate images

image **create** type ?name?	image **inuse** name
?option value ...?	image **names**
types: **bitmap** | **photo**	image **type** name
image **delete** ?name name ...?	image **types**
image **height** name	image **width** name

image bitmap – options - Images that display two colors

-**background** color	-**foreground** color
-**data** string	-**maskdata** string
-**file** name	-**maskfile** name

image photo – options   - Full-color images

-**data** string	-**height** number
-**format** format-name	-**palette** palette-spec
-**file** name	-**width** number
-**gamma** value	

COMMANDS:

imageName **blank**	imageName **put** data ?option value
imageName **cget** option	(s) ...?
imageName **configure** ?option? ?	-**format** format-name
value option value ...?	-**to** x1 y1 ?x2 y2?
imageName **copy** sourceImage ?	imageName **read** filename ?option
option value(s) ...?	value(s) ...?
-**from** x1 y1 x2 y2	-**format** format-name
-**to** x1 y1 x2 y2	-**from** x1 y1 x2 y2
-**shrink**	-**shrink**
-**zoom** x y	-**to** x y
-**subsample** x y	imageName **redither**
-**compositingrule** rule	imageName **transparency get** x y
imageName **data** ?option value(s) ...?	imageName **transparency set** x y
-**background** color	boolean
-**format** format-name	imageName **write** filename ?option
-**from** x1 y1 x2 y2	value(s) ...?
-**grayscale**	-**background** color
imageName **get** x y	-**format** format-name
	-**from** x1 y1 x2 y2
	-**grayscale**

keysyms   - keysyms recognized by Tk (separate quickcard)
   Return, space, BackSpace, Escape, Prior, Next, F1, ... F10, ...
option   - Add/retrieve window options to/from the option database
option **add** pattern value ?priority?
option **clear**
option **get** window name class
option **readfile** fileName ?priority?
     PRIORITY: widgetDefault startupFile userDefault interactive

tk_setPalette - Modify the Tk color palette

tk_setPalette background
tk_setPalette name value ?name value ...?
     name: activeBackground foreground selectColor activeForeground highlightBackground
         selectBackground background highlightColor selectForeground disabledForeground
         insertBackground troughColor
tk_bisque

Widgets

button   - Create and manipulate button widgets
WIDGET-SPECIFIC OPTIONS

-command, command, Command	-overrelief, overRelief, OverRelief
-compound, compound, Compound	-state, state, State
-default, default, Default	-width, width, Width
-height, height, Height	

WIDGET COMMAND
pathName **flash**
pathName **invoke**
canvas   - Create and manipulate canvas widgets
checkbutton - Create and manipulate checkbutton widgets
WIDGET-SPECIFIC OPTIONS

-command, command, Command	-overrelief, overRelief, OverRelief
-height, height, Height	-selectcolor, selectColor, Background
-indicatoron, indicatorOn, IndicatorOn	-selectimage, selectImage, SelectImage
-offrelief, offRelief, OffRelief	-state, state, State
-offvalue, offValue, Value	-variable, variable, Variable
-onvalue, onValue, Value	-width, width, Width

WIDGET COMMAND
pathName **deselect**
pathName **flash**
pathName **invoke**
pathName **select**
pathName **toggle**
entry   - Create and manipulate entry widgets
frame   - Create and manipulate frame widgets
WIDGET-SPECIFIC OPTIONS

-background, background, Background	-height, height, Height
-class, class, Class	-visual, visual, Visual
-colormap, colormap, Colormap	-width, width, Width
-container, container, Container	

label   - Create and manipulate label widgets
WIDGET-SPECIFIC OPTIONS

-compound, compound, Compound	-state, state, State
-height, height, Height	-width, width, Width

labelframe - Create and manipulate labelframe widgets
listbox   - Create and manipulate listbox widgets
menu   - Create and manipulate menu widgets
menubutton - Create and manipulate menubutton widgets
message   - Create and manipulate message widgets
tk_optionMenu - Create an option menubutton and its menu
panedwindow - Create and manipulate panedwindow widgets
radiobutton - Create and manipulate radiobutton widgets
scale   - Create and manipulate scale widgets
scrollbar   - Create and manipulate scrollbar widgets
spinbox   - Create and manipulate spinbox widgets
text   - Create and manipulate text widgets

Dialogs and toplevels

tk_chooseColor - pops up a dialog box for the user to select a color.
tk_chooseDirectory - pops up a dialog box for the user to select a directory.
tk_dialog   - Create modal dialog and wait for response
tk_getOpenFile - pop up a dialog box for the user to select a file to open or save.
tk_messageBox - pops up a message window and waits for user response.
tk_popup   - Post a popup menu
toplevel   - Create and manipulate toplevel widgets

Geometry management

gm – general gm commands (grid, pack, place)
gm **forget**
gm **info** window
gm **slaves** window
grid   - Geometry manager that arranges widgets in a grid
grid **slave** ?slave ...? ?options?
grid **bbox** master ?column row? ?column2 row2?
grid **columnconfigure** master index ?-option value...?

grid **configure** slave ?slave ...? ?options?

-**column** n	-**padx** amount
-**columnspan** n	-**pady** amount
-**in** other	-**row** n
-**ipadx** amount	-**rowspan** n
-**ipady** amount	-**sticky** style

grid **location** master x y
grid **propagate** master ?boolean?
grid **rowconfigure** master index ?-option value...?
grid **remove** slave ?slave ...?
grid **size** master

pack   - Geometry manager that packs around edges of cavity
pack **slave** ?slave ...? ?options?
pack **configure** slave ?slave ...? ?options?

-**after** other	-**ipadx** amount
-**anchor** anchor	-**ipady** amount
-**before** other	-**padx** amount
-**expand** boolean	-**pady** amount
-**fill none|x|y|both**	-**side** side
-**in** other	

pack **propagate** master ?boolean?

place   - Geometry manager for fixed or rubber-sheet placement
place **window** option value ?option value ...?
place **configure** window ?option? ?value option value ...?

-**anchor** where	-**relx** location
-**bordermode** mode	-**rely** location
-**height** size	-**width** size
-**in** master	-**x** location
-**relheight** size	-**y** location
-**relwidth** size	

lower window ?belowThis? - Change a window's position in the stacking order
raise window ?aboveThis? - Change a window's position in the stacking order

Events and bindings

bind   - Arrange for X events to invoke Tcl scripts
bind tag ?sequence ??+?script??
    Event: <modifier-modifier-type-detail> <<named>>
    Modifiers: Control Mod2/M2 Shift Mod3/M3 Lock Mod4/M4 Button1/B1 Mod5/M5 Button2/B2
        Meta/M Button3/B3 Alt Button4/B4 Double Button5/B5 Triple Mod1/M1 Quadruple
    Even types: Activate, Destroy Map, ButtonPress/Button, Enter, MapRequest, ButtonRelease,
        Expose, Motion, Circulate, FocusIn, MouseWheel, CirculateRequest, FocusOut, Property,
        Colormap, Gravity, Reparent, Configure, KeyPress/Key, ResizeRequest,
        ConfigureRequest, KeyRelease, Unmap, Create, Leave, Visibility, Deactivate
    Substitutions: %% %# %a %b %c %d %f %h %i %k %m %o %p %s %t %w %x %y %A
        %B %D %E %K %N %R %S %T %W %X %Y

bindtags window ?tagList?   - Determine which bindings apply to a
                                            window, and order of evaluation
event - Miscellaneous event facilities: define virtual events and generate events
event **add** <<virtual>> sequence ?sequence ...?
event **delete** <<virtual>> ?sequence sequence ...?
event **generate** window event ?option value option value ...?
event **info** ?<<virtual>>?
    EVENT FIELDS: -**above** window -**borderwidth** size -**button** number
                -**count** number -**delta** number -**detail** detail -**focus** boolean
                -**height** size -**keycode** number -**keysym** name -**mode** notify
                -**override** boolean -**place** where -**root** window -**rootx** coord
                -**rooty** coord -**sendevent** boolean -**serial** number -**state** state
                -**subwindow** window -**time** integer -**warp** boolean -**width** size
                -**when now\|tail\|head\|mark** -**x** coord -**y** coord

focus   - Manage the input focus
focus
focus ?-**displayof\|force\|lastfor**? window
tk_focusNext window
tk_focusPrev window
tk_focusFollowsMouse

grab   - Confine pointer and keyboard events to a window sub-tree
grab ?-**global**? window
grab **current** ?window?
grab **release** window
grab **set** ?-**global**? window
grab **status** window

Inter-client Communication

bell   - Ring a display's bell
clipboard - Manipulate Tk clipboard
selection - Manipulate the X selection
send   - Execute a command in a different application

Tk 8.4.6

VARIABLES

tk_library
This variable holds the file name for a directory containing a library of Tcl scripts related to Tk. These scripts include an initialization file that is normally processed whenever a Tk application starts up, plus other files containing procedures that implement default behaviors for widgets. The initial value of tcl_library is set when Tk is added to an interpreter; this is done by searching several different directories until one is found that contains an appropriate Tk startup script. If the TK_LIBRARY environment variable exists, then the directory it names is checked first. If TK_LIBRARY isn't set or doesn't refer to an appropriate directory, then Tk checks several other directories based on a compiled-in default location, the location of the Tcl library directory, the location of the binary containing the application, and the current working directory. The variable can be modified by an application to switch to a different library.

tk_patchLevel
Contains a decimal integer giving the current patch level for Tk. The patch level is incremented for each new release or patch, and it uniquely identifies an official version of Tk.

tk::Priv
This variable is an array containing several pieces of information that are private to Tk. The elements of tk::Priv are used by Tk library procedures and default bindings. They should not be accessed by any code outside Tk.

tk_strictMotif
This variable is set to zero by default. If an application sets it to one, then Tk attempts to adhere as closely as possible to Motif look-and-feel standards. For example, active elements such as buttons and scrollbar sliders will not change color when the pointer passes over them.

tk_textRedraw
tk_textRelayout
These variables are set by text widgets when they have debugging turned on. The values written to these variables can be used to test or debug text widget operations. These variables are mostly used by Tk's test suite.

tk_version
Tk sets this variable in the interpreter for each application. The variable holds the current version number of the Tk library in the form major.minor. Major and minor are integers. The major version number increases in any Tk release that includes changes that are not backward compatible (i.e. whenever existing Tk applications and scripts may have to change to work with the new release). The minor version number increases with each new release of Tk, except that it resets to zero whenever the major version number changes.

geometry
If the -geometry option is specified, wish copies its value into this variable. If the variable still exists after fileName has been evaluated, wish uses the value of the variable in a wm geometry command to set the main window's geometry.

Standard options

-activebackground, activeBackground, Foreground	-insertwidth, insertWidth, InsertWidth
-activeborderwidth, activeBorderWidth, BorderWidth	-jump, jump, Jump
	-justify, justify, Justify
-activeforeground, activeForeground, Background	-orient, orient, Orient
-anchor, anchor, Anchor	-padx, padX, Pad
-background or -bg, background, Background	-pady, padY, Pad
-bitmap, bitmap, Bitmap	-relief, relief, Relief
-borderwidth or -bd, borderWidth, BorderWidth	-repeatdelay, repeatDelay, RepeatDelay
-cursor, cursor, Cursor	-repeatinterval, repeatInterval, RepeatInterval
-disabledforeground, disabledForeground, DisabledForeground	-selectbackground, selectBackground, Foreground
	-selectborderwidth, selectBorderWidth, BorderWidth
-exportselection, exportSelection, ExportSelection	
-font, font, Font	-selectforeground, selectForeground, Background
-foreground or -fg, foreground, Foreground	-setgrid, setGrid, SetGrid
-highlightbackground, highlightBackground, HighlightBackground	-takefocus, takeFocus, TakeFocus
	-text, text, Text
-highlightcolor, highlightColor, HighlightColor	-textvariable, textVariable, Variable
-highlightthickness, highlightThickness, HighlightThickness	-troughcolor, troughColor, Background
	-underline, underline, Underline
-image, image, Image	-wraplength, wrapLength, WrapLength
-insertbackground, insertBackground, Foreground	-xscrollcommand, xScrollCommand, ScrollCommand
-insertborderwidth, insertBorderWidth, BorderWidth	
	-yscrollcommand, yScrollCommand, ScrollCommand
-insertofftime, insertOffTime, OffTime	
-insertontime, insertOnTime, OnTime	