State of Tk

- Highlights
- Releases
- Changes since last meeting
- Other language bindings
- TCT
- Future

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Why do you want Tk9?

- Greatly improved MacOS visual engine
- Full GUI Scalable with SVG images
- Reformed look
- tk systray: Platform independent system tray
- Tk print prints text and canvas widget contents
- wm iconbadge overlays a number or exclamation mark over taskbar icon



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TIP 713: release calender 8.6

2024-09-13 8.6.15

• Ttk::treeview last item painting

2024-12-11 8.6.16

2025-08 8.6.17

• Couple of bugs and beautiful crashes... 2026-04 8.6.18 Last 8.6 release TIP 713: release calender 9.0.x 2024-10-25 9.0.0 released

2024-12-21 9.0.1 released

- TIP 706: public text "In context" functions to have new text widget as extension
- Fix "~/.Xdefaults" paths

2025-07-02 9.0.2 Just released

- ttk::panedwindow sash now visible!
- tk print enhancements

2025-09 9.0.3 2026-01 9.0.4 2026-05 9.0.5 2026-09 9.0.6

2026-12 9.0.7 Last 9.0 release

Migration to 9.0

Migration core wiki page:

https://core.tcl-lang.org/tk/wiki?name=Migrating+scripts+to+Tk+9 https://core.tcl-lang.org/tk/wiki?name=Migrating+C+extensions+to+Tk+9

- Default values changed from pixel to points to be scalable.
 Example: ttk::scale -gripsize
- Default colours changed from fix to symbolic to support (MacOS) dark theme.
 Example: polygon -fill
- Tk_InitStubs(interp, "8.6-10", 0)

Migrated extensions

https://wiki.tcl-lang.org/page/Porting+extensions+to+Tcl+9

- All major packagages ported
- Main issue is the TCL migration, as Tk is very compatible
- Maintainers in the conference:
 - Andreas: Tklib
 - Harald: tksvg
- -> Quick migration was surprising
- -> Compatibility project Tk 8.7 was stopped

TIP 713: release calender 9.1

2025-07 9.1.0a0 First alpha 2025-09 9.1a1 2026-01 9.1a2 2026-05 9.1b1 Feature freeze 2026-09 9.1.0 Productive

Tk 9.1 features

- MS-Win: remove Windows XP variants of tk_getOpenFile & friends
- TIP698: No negative values for many options. Example: grid \$w -borderwidth -5
- TIP704: canvas scaling aware
- TIP719: new states to ttk::treeview items, to allow custom node images ttk::style element create Treeitem.indicator \ image [list ImgClosed open ImgOpen]
- TIP725: ::tk::mac::GetInfoAsJSON

TCL 9.1 potential features

- TIP714: tk image types
- TIP687: -locale for text/entry widget Word break, glyph break other Unicode related features probably with unicode command
- MacOS platform enhancements
- Visual enhancements
- "image" command as independent package
- Tk print enhancements

Rtext: revised text widget

- High speed eliding (as current may take a minute on Widget resize)
- Now a loadable package to test: https://chiselapp.com/user/fvogel/repository/rtext/home
- Branch and bugs in tk ticker (see link above)

Smooth canvas

- Canvas lines are pixels
- Androwish has a smoothed standard canvas
- Tkpath features smooth edges and is just ported to Tk9 Manfred reported a drop-in replacement, René likes the advanced features, but had coordinate and binding troubbles



Dark mode

- On MacOS, the default colours are defined in dependency of active dark or light mode
- Packages may redefine all colors to get a dark mode: Example: AWDark