Year In Review 2019

2019 Tcl Conference TCT



- » Core Team Membership Update
- » 2019 Releases Past
- » 2019 Releases In Progress
- State of the Fossil
- » New Business?

Tcl Core Team Roster

- Retired Jan 2018: Joe English
- Welcome: Kevin Walzer & Marc Culler
 - Accepted invitation ~July 2019

- Continuing...
 - Mo DeJong, Jos Decoster, Donal Fellows, Alexandre Ferrieux, Brian Griffin, Jeffrey Hobbs, Kevin Kenny, Andreas Kupries, Steve Landers, Jan Nijtmans, Don Porter, Francois Vogel

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Tcl/Tk 8.6.9 – November 2018

- TIP 505: [Ireplace] accept out-of-range indices
- [ttk::scale] new option -state
- [exec] argument quoting on Windows (security)
- [oo::object] can set/unset class identity
- Race conditions in [file delete], [file mkdir]
- http 2.9.0 Keep-Alive with pipelined requests
- LOTS of bug fixes see release notes.
- Mojave support with bonus release botch...

Tk 8.6.9.1 – November 2018

- Repair botch in 8.6.9 for Aqua on Mojave.
 - Missing call to [NsApp setIsDrawing:NO]

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Tcl/Tk 8.6.10(RC1) - Nov 21

- Many Tk improvements for Catalina
 - Dark Mode, IME, local [grab], scrollbars and on and on
- TIP 527: [timerate]
- TIP 532: Tk event loop rewrite
- TIP 533: [\$menubutton \$post \$x \$y \$index]
- TIP 535: [::scale] tick mark value precision
- TIP 536: [tk::mac::*] for more Mac OSX IPC
- Itcl 4.2: Big memory performance, [\$o info variable -scope]
- LOTS of bug fixes see release notes.

Tcl/Tk 8.7a3(RC0) - Nov 21

- 9 TIPs already in Tcl/Tk 8.7a1 + ~64 more
- Highlights
 - TIP 389 Full Unicode support via surrogate pairs
 - TIP 491 Phase out -disable-threads configuration of Tcl
 - TIP 430 Zip Filesystem archives and kit-building tools
- Integer changes
 - TIP 484 native integer int → wide
 - TIP 514 Cross-platform consistency of integer operations
- ::oo system improvements
 - TIP 490 better msgcat support for ::oo
 - TIP 500 Private methods in ::oo
 - TIP 478 Bring ::oo::util facilities of class behavior into ::oo
 - TIP 516 More operations for oo::Slot

- New commands and options
 - TIP 476 expanded [format],[scan] specs
 - TIP 351 [Isearch -stride]
 - TIP 462 [tcl::process] (Bounty!)
 - TIP 421 [array for] (Bounty!)
 - TIP 508 [array default] (Bounty!)
 - TIP 426 [info cmdtype]
 - TIP 492 [tk busy] introspection
 - TIP 489 [\$canvas image]
 - TIP 496 Input hint for [entry] and similar widgets
 - TIP 517 New option -activerelief for menu

Glorified bug fixes

- TIP 425 Tcl_ConsolePanic() (windows only)
- TIP 515 Level value reform
- TIP 509 Re-entrant mutexes on all platforms
- TIP 502 Index value reform

Out with the old

- TIP 345 kill 'identity' encoding
- TIP 487 Drop pre-XP Windows support
- TIP 493 Drop http 1.0
- TIPs 330,336 kill interp → result harder
- TIP 503 End 8.3 API support (CONST84)

Other

- TIP 499 - custom locale search lists for msgcat

- New in 2019
 - TIPs 522,525 tcltest, -errorCode, more return info
 - TIP 406 http cookies
 - TIP 445 Tcl ObjType encapsulation
 - TIP 501 [string is dict]
 - TIP 519 oo method visibility options, -export, -unexport
 - TIP 523 [lpop]
 - TIP 524 TclOO custom definition dialects
 - TIP 506 Tcl_(Incr|Decr)RefCount() encapsulation
 - TIP 160 More terminal and serial channel controls

- Still more new in 2019
 - TIP 312 More types for Tcl_LinkVar()
 - TIP 367 [Iremove]
 - TIP 504 [string insert]
 - TIP 342 [dict getwithdefault]
 - TIP 431 [file tempdir]
 - TIP 383 [coroprobe], [coroinject]
 - TIP 544 Tcl_GetIntForIndex()
 - TIP 461 New string compare operators, **ge, gt, le, lt**
 - TIP 521 New floating point classification functions, **fpclassify**() etc.
 - TIP 547 New encodings **utf-16**, **ucs-2** etc.
 - TIP 414 Tcl InitSubsystems()
 - TIP 548 wchar_t conversion and deprecation support

Tcl/Tk 9.0a1(RC0) - Nov 21

- Out with the old and broken...
 - TIP 114 End Octal interpretation 0123
 - TIP 278 Namespace variable resolution reform
 - TIPs 330,336 Tcl_Interp completely opaque
 - TIP 422 Drop *VA() routines
 - TIP 488 \$::tcl_precision removed
 - TIP 485 Remove many deprecated interfaces
- In with the new and amazing....
 - TIP 389 Full Unicode support (in progress, see TIP 497)
 - TIP 491 Phase out -disable-threads configuration of Tcl
 - TIP 484 native integer int → wide
 - TIP 514 Cross-platform consistency of integer operations
 - TIP 494 More conversions to size_t
 - TIP 537 64 bit indexes for regexp matching

Proposed 2020 Releases

- Approximately March 1, 2020
- Approximately July 1, 2020
- Just before Tcl Conference 2020

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core-8-6-branch

- Collecting bug fixes for 8.6.* releases.
 - Only bug fixes now.
 - Direct new features at 8.7 or 9.0
- Next release: 8.6.10

Tcl: core-8-branch

- New feature development for Tcl 8
 - Calls itself 8.7a2. Spawns 8.7a* releases.
 - Spec and implement your TIPs.
 - Next release: 8.7a3
- Special focus on migration features
 - Interfaces designed to permit extensions where a single source code base can work with Tcl 8.7 and Tcl 8.0
- This branch not present for Tk

Tcl trunk

- Developing feature set for Tcl 9
 - Calls itself 9.0a0
 - Spec and implement your TIPs.
 - Next (first!) release: Tcl 9.0a1

Tk trunk

- New feature development for Tk 8.7
 - Calls itself 8.7a2
 - Spec and implement your TIPs.
 - Next release: 8.7a3
- Tk 8.7 to be exemplar extension
 - Builds against Tcl 8.7 or Tcl 9.0 interfaces
 - [load]s and runs in Tcl interp matching header

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core-8-5-branch



- "MOSTLY DEAD" (Tk 8.5 is dead?)
- Final release: 8.5.20, alongside 8.7.0
 - Tcl/Tk 8.5.19 released Feb 2016.
 - Not a source for released bug fixes
 - Commit only most critical, most trivial changes...
 - ...or migration assists to 8.6 and beyond.
- "Fixed in 8.6!"