

Year In Review 2018

2018 Tcl Conference
TCT



What I will talk about.

- » **tcl.tk** → **tcl-lang.org**
- » New TIP home/engine
- » 2018 Releases Past
- » State of the Fossil
- » 2018 Releases Coming Soon
- » New Business?

tcl.tk → tcl-lang.org

- More and more browsers, proxies, search engines and other web hall monitors reject *.tk
- tcl-lang.org domain was secured some time ago in a crisis.
- Old name should still work where accepted. Prefer new name going forward.

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New TIP Home

- tip.tcl-lang.org
 - Redirects to core.tcl-lang.org/tips
 - ...which is a fossil repository
- History backed by Fossil
- Content in Markdown
- More open access to start new TIPs
- Thanks to Mark Janssen, creation and migration
- See TIP 467
- Improvements continuing

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Tcl/Tk 8.6.8 – December 2017

- TIP 477: nmake build system reform
- [array names -regexp] support backrefs
- [info * methods] now includes mixins
- Also bug fixes – see release notes.

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core-8-5-branch



- Collecting bug fixes for 8.5.20 release
 - Final 8.5.* release. END OF LIFE.
 - Tcl/Tk 8.5.19 released Feb 2016.
- Low priority.
 - Fixes only if critical, or trivial backport.
 - Otherwise “fixed in 8.6”
- Release expected to be in sync with 8.7.0.

core-8-6-branch

- Collecting bug fixes for 8.6.* releases.
 - Only bug fixes now.
 - Direct new features at 8.7 or 9.0
- Regular releases, at least 2 a year.
 - (Um, well,... yeah.)
 - Next release: 8.6.9

NEW in 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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Tcl/Tk 8.6.9 – PENDING

- TIP 505: [lreplace] 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.
- Waiting on Mojave support.

Tcl/Tk 8.7a3 – SOON

- 9 TIPs already in Tcl/Tk 8.7a1 + ~30 more since last year
- 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`

Tcl/Tk 8.7a3 (continued)

- New commands and options
 - TIP 476 – expanded [format],[scan] specs
 - TIP 351 – [lsearch -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

Tcl/Tk 8.7a3 (continued)

- 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

Tcl/Tk 9.0a1 - NEXT

- 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

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 - nikit.tcl-lang.org → wiki.tcl-lang.org !
 - Other ?