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
  – \[\text{load}\]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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  - Other ?