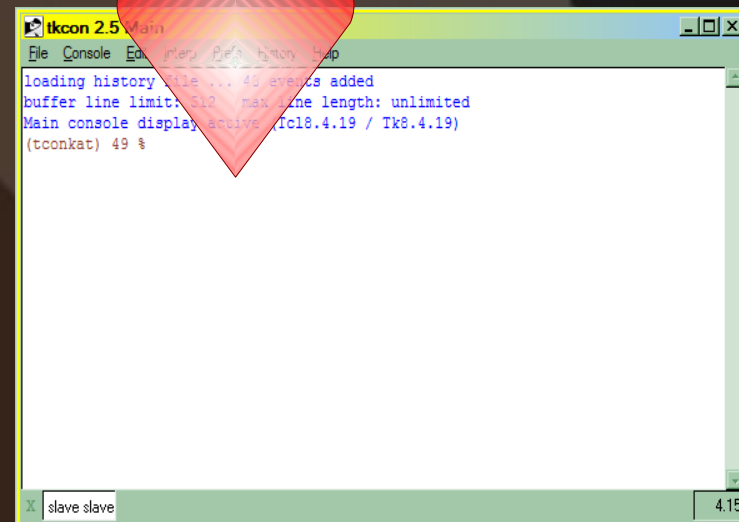# Tconkat

Inserts/appends to Tkcon

Tcl/Tk Annual Conference, 2009
Portland, Oregon, USA
Roy Terry

Whys and Wherefore's

- "Attractive things work better" - *Donald Norman (usability guru)*

- Big palette: Lots of extra tools are useful and can easily be added.

- A Star is born: Tkcon can become an appealing recommended entry point for new-comers

- Late bloomer: Tkcon still an essential tool (after all these years) – and it needs some love!

```
tkcon 2.5 Main
File  Console  Edit Interp  Prefs  History  Help
loading history file ... 49 events added
buffer line limit: 512   max line length: unlimited
Main console display active (Tcl8.4.19 / Tk8.4.19)
(tconkat) 49 %
slave slave                                                      4.15
```
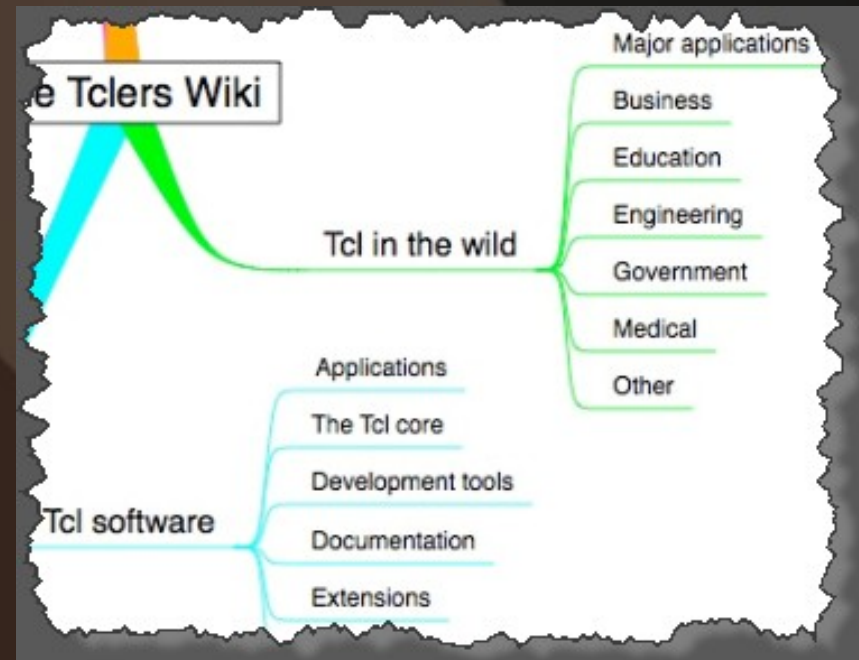
Immediate Goodies Candidates

- Adjust font, color, title, etc.

- New Shell mode (unix style)

- Toolbar for common settings

- "Domains" == separate history, look, start-up for different tasks/projects

- Devel Browsers: fonts, images, canvases, text, geometry, etc.

- Handy commands: lists, arrays, autosource, …

- Fix nits in keystroke shortcuts

```
(app) 213 % candump $mapc c855
id=  28  ellipse                      xpath             c c855 cc855
id=  29  text          855            12.0 97.0         c c855 ct855
id=  30  line                         26.0 96.0 26.0 99.0  c c855 cl855
id=  31  oval                         -2.0 83.0 26.0 111.0  c c855 cm855
counts(image)     = 0
counts(line)      = 1
counts(other)     = 2
```

```
font,Arial,12,bold,0:-family Arial -size 12 -weight
font,Arial,16,bold,0:-family Arial -size 16 -weight
-family Arial -size 30 -weigh
Arial -size 40 -weigh
font default:-family {MS Sans Serif} -size 8 -weight r
```

iview - image3

image3 w=260 h

```
(app) 215 % plist [winbinddump .t]
.t  BINDS <Key-F12>                 => aaNewWindow {runfrom keystroke}
.t  BINDS <Shift-Key-F1>            => avHelpShow keystroke-shift
.t  BINDS <Key-F1>                  => avHelpShow keystroke
.t  BINDS <Control-Shift-Key-F2>    => tkcon hide
.t  BINDS <Control-Shift-Key-F1>    => tkcon deiconify; tkcon master raise .
.t  BINDS <Key-F10>                 => window2Image start w2itest
.t  BINDS <Alt-Key-space>           => atpPopThmInitAndFillTopLevel 0 0 a
.t  BINDS <Key-space>               => atGotoPopMove
.t  BINDS <Key-Tab>                 => asStateMaster keystroke Tab
.t  BINDS <Control-Key-Down>        => asStateMaster keystroke Control-Down
.t  BINDS <Control-Key-Up>          => asStateMaster keystroke Control-Up
.t  BINDS <Control-Shift-Key-Down>  => asStateMaster keystroke Shift-Control-Down
.t  BINDS <Control-Shift-Key-Up>    => asStateMaster keystroke Shift-Control-Up
.t  BINDS <Key-End>                 => asStateMaster keystroke End
.t  BINDS <Key-Home>                => asStateMaster keystroke Home
```

Wider Scope additions/tools

- regexp/regsub visualizers (existing)

- Socket framework helper

- Database tools

- Basic image operations

- Interface to teacup

- Linkage to Tcl/Tk help system

- You name it.

How to "Bell the Cat"

- The language makes it easy..

- **Add to `menu`**
  `$menu insert` *index ?option value ...?*

- **Add toolbar**
  `grid slaves .; grid info ...`

- **Change/add key bindings**
  `bind TkCons <Control-g>` …

- **Bind TkCons <Control-f> +...**

- **Hands-off – probably not necessary to touch**
  tkcon.tcl

Domains (workspaces) provides sharper tool

- Automatic based on starting directory (or use flag)

- Separate history file

- Colors, font

- Window title

- Window size and position

- Separate Startup script

- Auto sourcing and auto copying