

14th European Tcl/Tk User Meeting 2016 in Eindhoven

# Semantic Versioning

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ICT<sup>+</sup>  
smarter solutions

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# Examples

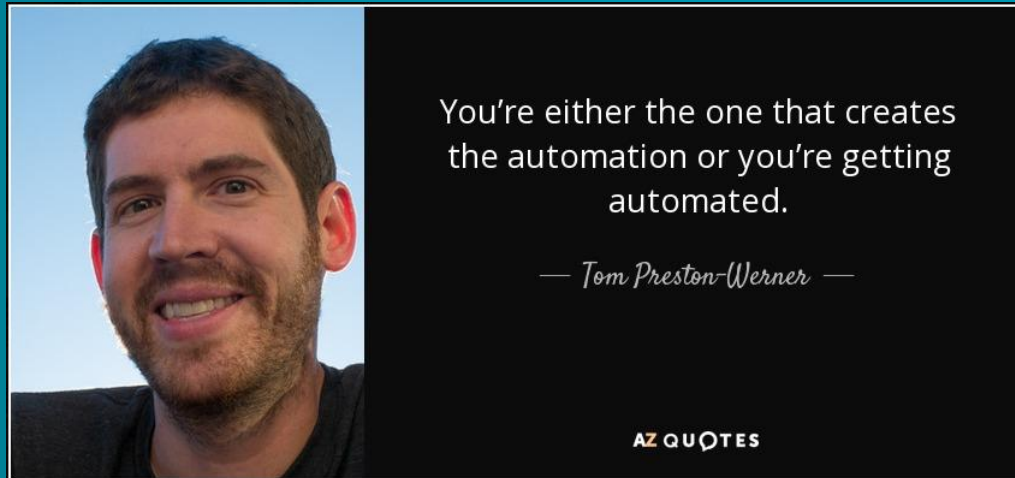
Firefox	1.0	1.5	2.0	3.0	3.5	3.6	4.0	5.0	.....	47.0
Linux	2.5.x	2.6.x	3.x	4.x						
SQLite	3.7.16.x	3.7.17	3.8.4.x			3.8.11.x	3.9.x			
zlib	1.0.x	1.1.x	1.2.x							
Chrome	52.0.2743.49									
tzdata	2014a	2015a	2016e							
Unicode	1.0	2.0	3.0	4.0	4.0.1	4.1	....	8.0	9.0	
Tcl	8.4.19	8.5.20	8.6.5			8.7.x	9.0.x		9.1.x	

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# Semantic Versioning

[www.semver.org](http://www.semver.org)

Tom Preston-Werner (Gravatars, cofounder GitHub)



# Semantic Versioning 2.0.0

Given a version number MAJOR.MINOR.PATCH,  
increment the:

1. MAJOR version when you make incompatible API changes,
2. MINOR version when you add functionality in a backwards-compatible manner, and
3. PATCH version when you make backwards-compatible bug fixes.

# TIP #439

- Semantic meaning of Version numbers
- Branch: “semver”
- Change directory structure/file names (100% compatible)
- deprecation of public APIs
- “package” command changes (100% compatible)
- TCL modules: no change

# Directory Structure

/usr/lib/tcl8.7   -> /usr/share/tcl8  
/usr/man/       -> /usr/share/man

tclsh8.7       -> tclsh8            tclsh9.0       -> tclsh9  
libtcl8.7.so -> libtcl8.so       libtcl9.0.so -> libtcl9.so

No longer thread/debug/static prefixes

libtcl8.7g.so   -> libtcl8.so        tcl87t.dll     -> tcl8.dll  
libtcl8.7s.a   -> libtcl8.a         (tclsh8.7s.exe -> tclkit8.exe)

# Depreciation

Tcl\_Eval

Tcl\_EvalFile

Tcl\_EvalObj

Tcl\_EvalTokens

Tcl\_GetVar

Tcl\_GlobalEval

Tcl\_GlobalEvalObj

Tcl\_SetVar

Tcl\_TraceVar

Tcl\_UnsetVar

Tcl\_UntraceVar

Tcl\_UpVar

Tcl\_VarEval

Tcl\_VarTraceInfo

Tcl\_VarEvalVA

Tcl\_DiscardResult

Tcl\_RestoreResult

Tcl\_SaveResult

Tcl\_GetDefaultEncodingDir

Tcl\_SetDefaultEncodingDir

Tcl\_CreateMathFunc

Tcl\_GetMathFuncInfo

Tcl\_ListMathFuncs

**-DTCL\_NO\_DEPRECATED**



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# “package”

package require Xxx *version* (min-bounded)  
package require Xxx *version-* (min-unbounded)  
package require Xxx *version1-version2* (bounded)

version:

- 1) one or more decimal numbers deparated by dots
- 2) The letters ‘a’ or ‘b’ may appear exactly once to replace a dot
- 3) (proposal) “-alpha” or “-beta” may be inserted once just before a dot
- 4) (possible future extension) ... to be worked out

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# “package”

### Meaning of dash ‘-’ character:

if followed by non-digit: part of version number

otherwise: separation between two versions

### Examples:

```
package require Tcl 8.5-8.7
```

```
package require Tcl 8.5b2-8.7.0-alpha.0
```

```
package require Tcl 8.5-
```

# Dependencies

- Tcl 8.7
  - zlib 1.2.8 - 1.2.9 - 1.3.0
  - Unicode 9.0 - 10.0 - 11.0
  - tzdata 2015a - 2016e
  - SQLite 3.13.0 - 3.14.0 - 3.15.0
    - Unicode 9.0 - 10.0 - 11.0
  - TclOO 1.0.7 - 1.1.0
  - Windows XP - Vista - 7 - 8 - 8.1 - 10
- Tk 8.7
  - Tcl 8.6 - Tcl 8.7 - Tcl 8.8
  - X11R6

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# Questions?

