

Ticol Quickstart Guide

The recommended script editor is Notepad++

Command Line Help

```
tical.exe /?
```

Running a Script File

```
tical.exe <scriptname>
```

Running a Script File With Arguments

```
tical.exe <scriptname> arg1 arg2 ...
```

Running a Script File Without autoexec.tcl

```
tical.exe <scriptname> /na
```

Entering the Command Line Interface (CLI)

```
tical.exe
```

Run a Script from the CLI

```
run <scriptname> ?<args>?
```

```
load <scriptname>  
run
```

View a Tcl Script from the CLI

```
load <scriptname>  
dump
```

Get Help from the CLI

```
help <topic>
```

```
find <topic>
```

Run a Script with Single Step Debugging

```
ticol.exe <scriptname> /bp
```

(and enter at least one: **halt** command into the script)

Run Tcl Commands from the Windows Console

```
ticol.exe ; "<quoted>;<tcl>;<commands>;<separated>;<by>;<semicolons>"
```

Protect a Script

```
ticol.exe <scriptname> /c
```

View Preprocessed Source Code (Unprotected)

```
ticol.exe <scriptname> /echo
```

Examples

```
ticol.exe  
puts "Hello world"  
exit
```

```
ticol.exe  
puts [expr 22/7.0]  
exit
```

```
ticol.exe  
load hanoi  
run  
exit
```

```
ticol.exe  
load hanoi  
dump  
exit
```

```
ticol.exe  
help call by name  
exit
```

```
ticol.exe  
find print  
exit
```

```
ticol.exe
```

```

run hanoi 17
exit

ticol.exe hanoi 17 /na

ticol.exe hanoi 17 /g /na

ticol.exe hanoi /c

ticol.exe hanoi /echo

ticol.exe ; "set a 4; puts [expr 4*atan(1)]"

ticol.exe ; "set a 4; puts \"Pi is [expr 4*atan(1)]\""

```

Important Points to Note

- i. Tcl 'functions' are actually [commands] and may take -arguments
- ii. Tcl looks a little like C/C++ but the Tcl syntax requires brace openings to be on the same line as the opening command. This is one of the few rules of Tcl syntax

```

if {1} {
    # Do something
} else {
    # Do nothing
}

```

- iii. Tcl comments are defined by hash characters. Ticol also offers /* ... */
- iv. Commands are wrapped in square brackets inside statements or unwrapped if standalone
- v. Square brackets are evaluated first, even inside strings
- vi. Braces delay or prevent evaluation of commands. Each command (function) call removes one layer of braces
- vii. Tcl understands nothing whatsoever about "C-like" expressions. The [expr] command processes these either standalone or in flow control commands depending on the setting for [option expression]
- viii. You can have flow control commands evaluate in Tcl [expr] mode or in Tcl command mode using [option expression]. Get this wrong and loops will hang!

option expression on

```
while {$i<10} { ...}
```

```
option expression off
```

```
while {[< $i 10]} { ...}
```

- ix. Tcl has functions such as `abs()` similar to C/C++ but these are available from the expression handler '[expr]'. Ticol also allows you to call these via [funct]

```
puts [expr "round(4*atan(1),3)"]
```

- x. Ticol has an [option] command which may be used to change behaviour on the fly

```
option
```

```
option expression
```

```
option expression on
```

```
option expression off
```

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