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Vol. 3 - "tsWxGTUI_PyVx" Toolkit

Rev. 0.0.7 (Pre-Alpha)

Author(s): Richard S. Gordon



TeamSTARS "tsWxGTUI PyVx" Toolkit

with Python™ 2x & Python™ 3x based

Command Line Interface (CLI)

and "Curses"-based "wxPython"-style
Graphical-Text User Interface (GUI)

Get that cross-platform, pixel-mode "wxPython" feeling on character-mode 8-/16-color (xterm-family) and non-color (vt100-family) terminals and terminal emulators.

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nCurses character-mode Terminal Control Library for Unix-like systems and API Features adapted for use in "tsLibGUI" package "tsWxPkg" Python module "tsWxGraphicalTextUserInterface.py":

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SLOCCount 2.26 Source Lines Of Code Algorithm from Perl script "get_sloc" adapted for use in "tsToolsCLI" package "tsLinesOfCodeProjectMetricsPkg"

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Python module "tsLocPMReportResults.py":
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      terminalsize (https://gist.github.com/jtriley/1108174)
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```
#"Time-stamp: <01/10/2016 5:37:42 AM rsg>"
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  | ts | Wx | with Python 2x & Python 3x based
  +---+
                 Command Line Interface (CLI)
  | G T U I |
               and "Curses"-based "wxPython"-style,
                  Graphical-Text User Interface (GUI)
  Get that cross-platform, pixel-mode "wxPython" feeling
  on character-mode 8-/16-color (xterm-family) & non-color
  (vt100-family) terminals and terminal emulators.
  You can find this and other plain-text files in the
  Toolkit subdirectory named:
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     <Your Working Repository>
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2 NOTES

2.1 Splash Screen Designer's Guide

A splash screen is an optional image that appears while a program is loading. Splash screens may cover the entire screen or simply a rectangle near the center of the screen.

The "tsWxGTUI_PyVx" Toolkit's original Author's guidelines demonstrate how one might allocate the available display area to the applicable trademark, copyright, license, warranty and disclaimer.

```
##-----#"Time-stamp: <01/10/2016 5:52:32 AM rsg>"
====== File: README-SplashScreenDesignersGuide.txt ======
  +---+ TeamSTARS "tsWxGTUI PyVx" Toolkit
  | ts | Wx | with Python 2x & Python 3x based
  Graphical-Tout University CLI)
                   Graphical-Text User Interface (GUI)
  Get that cross-platform, pixel-mode "wxPython" feeling
  on character-mode 8-/16-color (xterm-family) & non-color
   (vt100-family) terminals and terminal emulators.
  <Your Working Repository>
   (e.g. "tsWxGTUI PyVx Repository")
    +-- ["Documents"]
    +-- ["ManPages"]
    +-- ["Notebooks"]
          +-- ["DeveloperNotebook"]
          +-- ["EngineeringNotebook"]
                +-- ["MS-Excel-Files"]
                     +-- "SplashScreenDesignerGuide.xls"
          +-- ["ProjectNotebook"]
                +-- "PROJECT-01-Title Page.txt"
```

```
+-- "PROJECT-02-Table Of Contents.txt"
            +-- "PROJECT-03-Purpose.txt"
            +-- "PROJECT-04-Goals.txt"
           +-- "PROJECT-05-Non-Goals.txt"
           +-- "PROJECT-06-Design Strategy.txt"
           +-- "PROJECT-07-Design Architecture.txt"
           +-- "PROJECT-08-Release Strategy.txt"
           +-- "PROJECT-09-Software Configuration_Management.txt"
           +-- "PROJECT-10-Software_Repository.txt"
           +-- "PROJECT-11-Features.txt"
           +-- "PROJECT-12-Capabilities.txt"
           +-- "PROJECT-13-Limitations.txt"
           +-- "PROJECT-14-Reference Documents.txt"
           +-- "PROJECT-15-Built-in Documentation Symbols.txt"
           +-- "PROJECT-16-Applicaion Launch Modules.txt"
           +-- "PROJECT-17-Directory and Import Guide.txt"
           +-- "PROJECT-18-Site-Package Install Guide.txt"
           +-- "PROJECT-19-Developer-Sandbox Install Guide.txt"
            +-- "PROJECT-20-Splash Screen Guide.txt"
            +-- "README5-ProjectNotebook.txt"
     +-- "README5-Notebooks.txt"
+-- ["SourceDistributions"]
+-- "README.txt"
```

- 1. Jargon
- 2. Sample Layout
- 3. Layout Procdure

1. Jargon

* Splash Screen --- a graphical control element consisting of window containing an image, a logo and the current version of the software. A splash screen usually appears while a program is launching. Splash screens may cover the entire screen, or simply a rectangle near the center of the screen.

The Splash Screen enabling or disabling is an option within ./tsLibGUI/tsWxGlobals.py.

The Splash Screen is constructed and displayed by ./tsLibGUI/tsWxGraphicalTextUserInterface.py.

* Masthead --- a statement printed in all issues of a newspaper, magazine, or the like, usually on the editorial page, giving the publication's name, the

names of the owner and staff, etc. The contents are defined within ./tsLibCLI/tsCxGlobals.py.

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2. Sample Layout

A splash screen is a window with a thin border. It displays a "bitmap" (text) describing your application. The splash screen is shown during application initialization. The application then either explicitly de-

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11

```
stroys it or lets it time-out.
 2.1 For "abundant" screen size (60+ column x 42+ row)
     displays:
     a. Trademark (60+ column x 10 row)
     b. Copyright (60+ column x 18 row)
                (60 + column \times 14 row)
     c. License
 2.2 For "usable" screen size (60+ column x 32+ row)
     displays:
     a. Copyright (60+ column x 18 row)
     b. License (60+ column x 14 row)
 2.3 For "minimal" screen size (60+ column x 6 row)
     displays:
     a. Notice
                (60 + column \times 6 row)
 2.4 For" unusable" screen size (59- column x 5- row)
     displays:
     a. Program error log file.(59- column x 4- row)
                                 4
                          3
012345678901234567890123456789012345678901234567890123456789
+---+ TeamSTARS "tsWxGTUI PyVx" Toolkit
 | ts | Wx | with Python-based
 +---+
                  Command Line Interface (CLI)
               and "wxPython"-style, "nCurses"-based
  | G T U I |
                   Graphical-Text User Interface (GUI)
 +----+
 Get that cross-platform, pixel-mode "wxPython" feeling
 on character-mode terminals and terminal emulators.
                  2
                           3
012345678901234567890123456789012345678901234567890123456789
"tsWxGTUI PyVx", v0.0.0 (pre-alpha build 11/28/2014)
     Author(s): Richard S. Gordon
     Copyright (c) 2010-2014 Richard S. Gordon,
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     GNU General Public License (GPL), Version 3,
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```

```
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                  3 November 2008
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    "./tsWxGTUI PyVx/tsDocCLIUsageTermsAndConditions"
 5
    directory.
========= LAYOUT PROCEDURE =============
3. Layout Procdure
  3.1 For each developer-sandbox and site package:
  3.2 Find file "tsCxGlobals" and Update to reflect recent
      changes to authors, credits, licenses, and notices
      associated with any enhancements and bug fixes.
      HINT:
         Locations should appear in "MANIFEST TREE.txt"
  3.3 Find and run file "test TermsAndConditions.py"
      HINT:
```

Locations should appear in "MANIFEST TREE.txt"

- 3.4 Update file "test TermsAndConditions.xls"
- 3.5 Repeat steps 2.2-2.5 for next developer-sandbox and site_package until the required information is both aesthetically pleasing and fits the associated category of display screen size.