

Copyright (C) 2021 mirage335
See the end of the file for license conditions.
See license.txt for scriptedIllustrator license conditions.

A 'UNIX TiddlyWiki' . A 'LibreOffice' or 'MSOffice' for programmers. A word processor for wiki, shell, bash, or TI calculator users.

Self-modifying mix of shellcode script and markup. Users need not understand the code to edit the text.

```
./scriptedIllustrator.html -> equations and commands-> , scriptedIllustrator.html , scriptedIllustrator.pdf ,  
scriptedIllustrator.md , etc -> edit 'scriptIllustrator.html' again and again
```

Intended to assist quickly or collaboratively embedding dynamic external data (ie. calculations, source code analysis, web sites, images, etc) within documentation. MediaWiki users in particular may simply edit text and post the markup file - only the intended text will be visible while the interleaved code remains executable and commented out from the markup.

Markup files of many markup languages (eg. HTML, MediaWiki, markdown) are executable, automatically convertible, all having functionally identical shell code (eg. HTML and MediaWiki compatible files are capable of identical output).

Conversion to 'LibreOffice' 'docx' or 'odt' is best achieved by copy/paste from a web browser.

Automatic conversion to 'asciidoc' is available, however, that format seems to have relatively limited functionality. Automatic conversion to 'LibreOffice' is technically possible, however, copy/paste from a web browser viewing HTML markup achieves more accurate results with much more functionality.

Examples

This README itself is an example. PDF rendering is most accurate.
<https://github.com/mirage335/scriptedIllustrator/blob/main/README.pdf>

Usage

```
./scriptedIllustrator.sh _README  
./compile.sh ; ./scriptedIllustrator.sh _experiment  
  
./scriptedIllustrator.sh _scribble_html  
./scriptedIllustrator.html _scribble_html  
  
# By default, scribble all possible markup .  
./scriptedIllustrator.sh  
./scriptedIllustrator.html  
./scriptedIllustrator.mediawiki.txt
```

"KWrite" is strongly recommended. Syntax highlighting of '# NOTICE' is helpful . Syntax highlighting may be either 'bash' or markup at any time as desired.

Design

Conversion between scripting/markup languages must not cause any differences, as these will accumulate in practice. MSW/Cygwin compatible.

Automatic '_test' function attempts some plausible conversions to ensure unexpected differences do not occur.

```
./scriptedIllustrator.sh _test  
./scriptedIllustrator.html _test  
./compile.sh ; ./scriptedIllustrator.html _test ; ./scriptedIllustrator.mediawiki.txt
```

Safety

Most documentation scripts are expected compatible with Cloud services, or QEMU virtual machines (possibly without any hardware/accelerated virtualization). Users should be provided access to these, rather than running such documentation scripts directly.

Version control very strongly recommended. Obviously these scripts can self-overwrite (which is very often desirable), especially if editing markup files directly (which is when self-overwrite is most desirable for convenience).

Reference

<https://unix.stackexchange.com/questions/533886/is-there-a-command-line-tool-for-converting-html-files-to-pdf>
'pandoc'
'htmldoc'
'html2ps'
'phantomjs'

<https://github.com/go-easygen/easygen>
https://pkg.go.dev/github.com/go-easygen/easygen?utm_source=godoc#pkg-examples
<https://github.com/imatix/gsl>

<https://en.wikipedia.org/wiki/AsciiDoc>
<https://github.com/dagwieers/asciidoc-odf>
<https://powerman.name/doc/asciidoc>
<https://docs.asciidoctor.org/asciidoc/latest/comments/>

Copyright

This file is part of scriptedIllustrator.

scriptedIllustrator is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

scriptedIllustrator is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with scriptedIllustrator. If not, see <<http://www.gnu.org/licenses/>>.

PageBreak -H-H-H-H- PageBreak -H-H-H-H- PageBreak -H-H-H-H- PageBreak -H-H-H-H- PageBreak

PAGE INTENTIONALLY BLANK

PageBreak -H-H-H-H- PageBreak -H-H-H-H- PageBreak -H-H-H-H- PageBreak -H-H-H-H- PageBreak

document - heading1

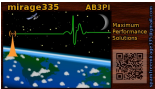
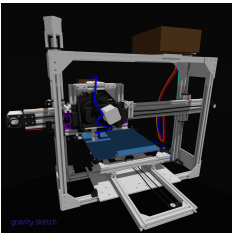
demo: self-modifying interleaved markup and shell

date - heading2

```
request: date --iso-8601=ns
date --iso-8601
'[[ "$noDate" != "true" ]] && date --iso-8601'
# 2021-10-28
```



images - heading2

preformatted text within paragraph



equations and commands - heading2

```
'currentBitsPerSecond=9600'
'currentBonesPerPlayer=4'
'solve' '("$currentBitsPerSecond" == (\ "currentPlayers\" * "$currentBonesPerPlayer" * "$currentIncrementFramesPerSecond" *
"$currentIncrementFrameBytesPerBone" * "$currentByte") + (\ "currentPlayers\" * "$currentBonesPerPlayer" *
"$currentInstantFramesPerSecond" * "$currentInstantFrameBytesPerBone" * "$currentByte"), \ "currentPlayers\" )"'
# 5.5555556
```

titleA	*titleB*	*titleC*	*titleD*
example	'ubiquitous_bash.sh' '_echo' 'a b'	'_color_demo'	
commands	# a b	# _color_demo	
\# with output	'ubiquitous_bash.sh' '_echo' 'a b'	# _color_demo	
	# a	# _color_demo	
	# b	# ubiquitousBashIDshort= uk4uPhB6	
		# _color_demo	
		# _color_demo	
	' \ \ output'	# _color_demo	
		# echo _color_demo	
		# _color_demo	
		# "echo" "_color_demo"	
		# 'echo' '_color_demo'	
		# color_demo	
		# color_demo	
		# delay: InterProcess-Communication	
output	raw markup		pre
			

breaks - heading2

preformatted text at paragraph_begin

preformatted text at paragraph_end

```
request: maybe the user should copy some file next to the "$scriptAbsoluteFolder"
request: maybe the user should copy some file next to the "$scriptAbsoluteFolder"
ubiquitousBashIDshort= uk4uPhB6
```

uk4uPhB6

```
<!-- # --><pre style="margin-top: 0px;margin-bottom: 0px;white-space: pre-wrap;">
preformatted
  text
more
  preformatted
text
#
# ###
# ###
```

heading1

heading2

heading3

heading4

heading5

heading6

raw markup

raw heading1

raw heading2

raw markup raw markup

raw paragraph

raw markup raw markup raw markup raw markup raw markup

raw HTML markup within paragraph

preformatted
text

preformatted
text
"\$ubiquitousBashIDshort"

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

```
x > /dev/null < /dev/null </dev/null> <h://w.example.com/page/>
x > /dev/null < /dev/null </dev/null> <h://w.example.com/page/>
x > /dev/null
```


Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

1	2	3	4	5
6	7	8	9	0