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Published by Toon Boom Animation Inc.

Corporate Headquarters

7 Laurier Avenue East Montreal, Quebec Canada H2T 1E4 Tel: (514) 278-8666

Fax: (514) 278-2666 toonboom.com

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Credits

Documentation Development: Peter Cawthorne

Content Development: Marie-Eve Chartrand, Anouk Whissell, Shabana Ali

Art Development: Marie-Eve Chartrand, Anouk Whissell, Shabana Ali, Tania Gray, Annie Rodrigue

Product Manager: Sébastien Miglio

Publication Date

March 2010

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Chapter 1 Introduction to Utilities

Toon Boom provides utilities that you can use in Command Prompt and Shells to provide more flexibility and control over the different command options in Toon Boom Animate.

In this chapter, you will learn about:

Running a Utility, on page 4

In this guide, you will find the following utilities:

- Pdfimport Utility, on page 8
- Swf2tvg Utility, on page 9
- Swfimport Utility, on page 10
- uinfo Utility, on page 10
- utransform Utility, on page 11

Running a Utility

Toon Boom includes a number of command line utilities that you can use to convert image formats, bitmap or vector, into other image formats.

These command line utilities are found in your Toon Boom application folder.

For example, for Toon Boom Animate:

- Using Windows, these utilities are located in: \Program Files\Toon Boom Animation\Animate 2\nt\bin
- Using Mac OS X, these utilities are located in: /Applications/Toon Boom Animate 2/tba/macosx/bin

To run these utilities, use a Command Prompt or a Terminal window. All of these utilities work on input files that are processed using options you specify to produce an output.

To run a command line utility:

- 1. Open a Command Prompt (Windows) or Terminal (Mac OS X) window.
 - Using Windows, click on the Start menu and select
 Programs > Accessories > Command Prompt.

```
C:\Documents and Settings>
```

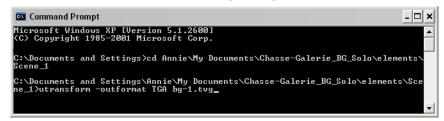
- Using Mac OS X, open a Finder window and select
 Applications > Utilities > Terminal
- 2. In the Command Prompt or Terminal window, switch to the directory that contains the image files that you want to process (element's folder).

```
C:\Documents and Settings\Annie\My Documents\Chasse-Galerie_BG_Solo\elements\Scene_1\__
```

3. Type the name of the utility that you want to launch, the options and the name of the file you want to process. The options must be preceded by a dash (-).

Here is an example of how to launch utransform using Windows:

▶ utransform -outformat TGA bg-1.tvg



Here is an example of how to launch utransform using Mac OS X.:

utransform -outformat TGA bg-1.tvg

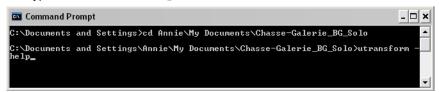


Note: before launching the utility you need to define an environment variable.



Note: If another version of Animate or Animate Pro is still installed on the system, the utility application should be launched from the \bin folder. This will make sure that the correct version of the utility is used.

- If using Windows:
 - \Program Files\Toon Boom Animation\Toon Boom Animate 2\nt\bin\ utransform -outformat
- If using Mac OS X:
 - /Finder/Applications/Toon Boom Animate 2/tba/macosx/bin> ./utransform -outformat
- 4. For help with the options and syntax of the utilities, open the help. To do this, type -help after the name of the utility on the command line.
 - type: utransform -help



Chapter 2 Utilities

This chapter describes all of the utilities, options and their uses:

- Pdfimport Utility, on page 8
- Swf2tvg Utility, on page 9
- Swfimport Utility, on page 10
- uinfo Utility, on page 10
- utransform Utility, on page 11

Pdfimport Utility

The Pdfimport utility is used to import a.PDF or an .AI file as a template without going through the interface. It allows more control and option flexibility over the imported file.

Here is the format you must follow when using Pdfimport:

Pdfimport [options] pdf or ai files

The available Pdfimport options are:

COMMAND	ACTION
AVAILABLE OPTIONS	
-outdir output_folder	This option defines the folder where the output files will be saved. The defined path is not relative.
-outtemplate output_folder.tpl	This option defines the template name for the converted pages. The defined path can be relative.
-PDF_LINE_ART_STROKE	This option will set the stroke attribute on contours of line art.
-PDF_BREAK_LINE_ART	This option will break the line art at intersection points.
-PDF_GENERATE_COLOUR_ART	This option will extract the centreline of the line art and put it in the colour art.
-PDF_SUPPORT_CMYK	This option will automatically convert CMYK colours to RGB. Otherwise, CMYK colours would import as a red colour.
-PDF_SEPARATE_LAYERS	This option will use the Illustrator top level groups as separate drawing names.
-PDF_FLATTEN	Use this option to perform a flatten on each drawings while importing.
DESCRIPTION OF SWITCHES:	
-outtemplate output_folder.tpl	Output template name for converted pages.
-outdir dir	This option defines the output folder for the templates (the defined folder must already exists.)
-usage	This option will display the usage.
-? -h -help help	This option will display the help information.
-v -version version n	This option will display the version information.

- The -outdir and -outtemplate options are exclusive, they can not be used together.
- You can only specify one file with the outtemplate option.
- If the CMYK colours option is not enabled, the application will output the following error message: CMYK: Unsupported colorSpace
- Pdfimport does not overwrite existing templates but will overwrite files in outdir.

Swf2tvg Utility

The Swf2tvg utility is used to import an SWF file into your scene without using the interface. This will create a .tvg file for each frame. Use the different commands to control the options.

Here is the format you must follow when using Swf2tvg:

Swf2Tvg -palette <palette_file> -usage -help -use_different_palettes
-base_name <base_out_name> -outdir <output directory> -bbox_recenter
-ignore_position -start_index <number> file1 [file2] [file3]

Here are the available Swf2tvg options:

ACTION
This option is used to add the colours of the SWF file to the palette file and save it.
This option is used to create a new palette for each SWF file and DOES NOT save any palette.
Use this option to automatically rename all generated drawings name-x.tvg where x is an increasing index.
Use this option to define the starting index to name the drawings. The default value is 1.
Use this option to define the output directory for all generated drawings.
This option will transform and position the imported drawings following the position on the stage in the Flash project. This option uses the information that is contained in the SWF PLACE_OBJECT record.
Note: this option does not use -start_index.
This option uses the comma separated list of names to generate timing information.
This is mainly to convert models.
e.gframe_alias FR_%.2d,3Q_%.2d,BK_%.2d"
Use this option to base the colour index in higher 32 bits.
This option centres drawings according to their bounding box. This option implies -ignore_position.
Use this option to ignore all sceneplanning information.
This option will display the usage.
This option will display the help information.
This option will display the version information.

NOTE:

- If -outdir is not specified, the files will be written in the SWF file current directory.
- You can specify any SWF file or PLT file. The PLT files will be read and used to match colours but will not be modified. The only palette modified is the palette specified by the -palette switch.

Swfimport Utility

The Swfimport utility is used to create a template from a SWF file.

Here is the format you must follow when using Swfimport:

SwfImport [options] swf_files

Here are the available Swfimport options:

COMMAND	ACTION
AVAILABLE OPTIONS	
-outdir output_folder	This option specifies the output folder for the generated templates
-applycolourtransform	This option will apply colour transforms from SWF onto the drawings.
-paletteName name_of_palette	Use this option to specify the name of the palette file to use with colour recovery.
DESCRIPTION OF SWITCHES	
-outdir dir	This option specifies the output folder for the templates (The specified folder must already exist.)
-usage	This option will display the usage.
-? -h -help help	This option will display the help information.
-v -version version	This option will display the version information.

NOTE:

Swfimport does not overwrite templates.

uinfo Utility

The uinfo utility is used to display the following information about a specified bitmap file.

- Name
- Resolution
- Format
- Channels
- Bites per Channels

Here is the format you must follow when using uinfo:

uinfo program input_files

COMMAND	ACTION	
AVAILABLE OPTIONS		
-? -h -help help	This option will display the help information.	
-v -version version	This option will display the version information.	

utransform Utility

The utransform program converts vector images to pixmaps and between different pixmap file formats. For example, you can use utransform to convert a TGA to an SGI file. Or, you can convert a TVG file to a Photoshop® PSD file.

Here is the format you must follow when using utransform:

\$ utransform -file [file name, including extension] [options]

Here are the available utransform options:

COMMAND	ACTION
OPTIONS	
-outformat <format></format>	This is the file type you want to output with utransform. The following are the file formats supported by utransform: TGA, TGA1, TGA3, TGA4, SGI, SGI1, SGI3, SGI4, SGIDP3, SGIDP4, OMFJPEG, OPT, OPT1, OPT3, OPT4, PSD, PSD1, PSD3, PSD4, PSDDP3, PSDDP4, TVG,
-outfile <name></name>	PDF, PNG, PNG4, YUV, PAL, and SCAN. This option is for the file name of the output file.
-outrile <name></name>	If you are processing multiple files, you will not be able to control their final name. If not specified, the files created by utransform will have the same file name as the original. The only difference will be the file extension.
-debug	This option will display information on the different steps of the process as well as the messages related to errors that might have occurred.
-? -h -help help	This option will display the help information.
-v -version version	This option will display the version information.
IMAGE OPTIONS	
-resolution <w> <h></h></w>	This option manages vector and pixmap input files. It indicates the height and width of the output file.
-resolution scan	This option will use the scan info to determine the drawing resolution when unvectorizing from the Control Centre.
-scale <s></s>	Use this option to scale the height and the width of the output file by the value you enter.
	The resolution of the image must be able to accommodate the new image size.
-xscale <s></s>	Use this option to scale the width of the output file.
	The resolution of the image must be able to accommodate the new image size.
-yscale <s></s>	Use this option to scale the height of the output file.
	The resolution of the image must be able to accommodate the new image size.
-turn <degrees></degrees>	Use this option to rotate the output file by the amount of degree entered.
-ps <in> <out></out></in>	Use this option to convert the shape of the pixel.
	This option inputs and outputs pixel shapes for formats other than YUV and PAL.
	The possible values are: square, NTSC and PAL.
-bgcolor <r> <g> </g></r>	This option defines the background colour for TVG images.
	The range is either 0-1 (a percentage of 255) or 0 - 255. The default value is white.

COMMAND	ACTION
-bgalpha <a>	This is the alpha value of the background.
	The range is either 0-1 or 0 - 255. The default value is opaque (255).
-arttoart	Will perform the same function as lineArtToColourart from the UI except that it can use any source art combination and output the result in any other art, clearing it before adding.
	1 = underlay, 2 = colourArt, 4 = lineArt, 8 = overlay
-addoverlay	Specify an overlay file to add in composition
-addunderlay	Specify an underlay file to add in composition
-useoverlaylayer	Specify art from drawing to use in overlay, (lineart,colorart,overlayart,underlayart)
-useunderlaylayer	Specify art from drawing to use in underlay, (lineart,colorart,overlayart,underlayart)
-clearlayers	Clear specific art layers, (lineart,colorart,overlayart,underlayart)
-automatte	Computes the auto matte of art src and put it in art dst. (src and dst must be different and must be one of lineart, colorart, overlayart, underlayart). Radius is expressed in model coordinates, 1 field of a 12 fields drawing is roughly 200 model units.
-copystrokes	Copy original strokes in destination when doing an auto-matte.
VECTOR OPTIONS	
-antialiasing <quality><exponent></exponent></quality>	quality = low, medium-low, medium or high exponent = between 0-3
	This option is for converting vector images to pixmaps.
	You can specify the quality of the anti-aliasing process (low, medium-low, medium or high) or the exponent (between 0-3).
-nolinetexture	This disables the generation of line textures from TVG files.
-nolineart	Use this option to exclude line art from the output file.
-nocolorart	Use this option to exclude colour art from output file.
-move <x> <y></y></x>	Use this option to recentre the output file, output pixels or world units for TVG output
	Note: Useful values for TVG output might be 714.285000 in x or 535.713750 in y
-flatten	Use this option to flatten the drawing and merge its textures.
	By default the output file format is TVG.
-bboxtvgincrease	This option will increase the .tvg bonding box size. The default value is 5 (percent).
-normalize	This option normalizes the TVG. This implies that the outformat is TVG.
	If the TVG has a different scaling than 1, it will scale the coordinates and set the scaling to 1.0.
-setfieldsize <f></f>	Use this option to set the internal scaling of the TVG to an exact field size.
VECTOR TO VECTOR OPTIONS	
-centreline	Use this option to extract the centreline of the drawing's line art.
-closegap	Use this option to perform Close gap.

COMMAND	ACTION
-gaplength	Use this option to define a Close gap length value. The default value is 10.
-hairpasses	Use this option to set the number of pass to perform for the remove hair option. The default value is 2.
-hairlength	Use this option to define the value for the hair length. The default is 20.
-keepcolorart	Use this option to keep the existing colour art and extract the centreline over it.
-showstrokes	Use this option to show the contour of line art and centrelines in special colours.
-thickness	Use this option to define the thickness in pixels of the strokes to show.
-fieldsize <fs></fs>	Use this option to set the field size for PDF output. The default field size is 12.
-lineartstrokescolor <r> <g> <a></g></r>	Use this option to define the red, green, blue, alpha values for the line art stroke colour.
-colorartstrokescolor <r> <g> <a></g></r>	Use this option to define the red, green, blue, alpha values for the colour art stroke colour.
-nofitcolorart	Use this option if you do NOT want to generate Bezier curves for colour art.
-tvgversion <version></version>	This option will convert to older/supported vector format product version: $v720 = 1005$ $v710 = 1005$ $v702 = 1004$ (Early version of 7.0.2 were using 1003.) $v700 = 1003$
ALIGNMENT OPTIONS	
-align <rule></rule>	Use this option to generate a bitmap that will fit inside Animate with a read module aligned with a defined rule. RULE can be: AS_IS, CENTER_TB, CENTER_LR, CENTER_FIRST_PAGE_HORIZONTAL, CENTER_FIRST_PAGE_VERTICAL, TOP, BOTTOM, LEFT, RIGHT.
-dpi <dpi></dpi>	Use this option to define the output resolution for the bitmap image in dots per inch. The default resolution is 75 dpi.
-paper_size	Size of paper in inches default is 12.
-margin	Number of fields to keep around the TVGelementId <fields>; Field size of elementsar <scene_aspect_ratio>; Scene aspect ratio default is 1.33333. Use 1.7777777 for 16/9 scenes.</scene_aspect_ratio></fields>
-box	Use this box to render.

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