**TOON BOOM STUDIO**

**ALL-IN-ONE ANIMATION SOFTWARE**

Toon Boom Studio 4.5 is ideal for individuals looking for an all-in-one animation software.

## What's New in Studio 4.5

- Add animation over your videos

- Print drawings to create flipbooks or use as a reference

- Import multi-layer Photoshop files for multiplane effects

- Drag & drop capability and performance improvements

# TOON BOOM STUDIO

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Toon Boom Studio 4.5 is ideal for individuals looking for an all-in-one animation software. From drawing digitally, scanning hand-drawn animations or seamlessly importing existing artwork, Studio 4.5 enables you to lip sync your animation, setup the action in a 3D space and publish your animation projects for print, TV, HDTV, the Web, YouTube and iPod!

### Create
- Import media such as films, drawings or photos
- Draw artwork with powerful drawing tools
- Save your drawings in a library for re-use
- Add sound

### Animate
- Move images in 3D space
- Move, zoom and pan the camera
- Use and share templates of animation and props
- Animate using an exposure sheet or the timeline

### Publish
- Export to popular video formats including SWF, AVI and MOV
- Send e-greetings to friends
- Put finished animations onto DVD or the web
- Print drawings to create flipbooks or use as a reference

### Recommended Requirements:

**Macintosh:**
- Intel® Dual Core™ processors
- Mac OS X 10.5.1 (Leopard)
- 1 GB Ram
- Wacom Tablet (optional)

**PC:**
- Intel® Pentium® dual-core processor
- Microsoft Windows VISTA or XP
- 1 GB Ram
- Wacom Tablet (optional)

### Minimum Requirements:

**Macintosh:**
- Power Macintosh G5
- Mac OS X v10.4.11 (Tiger)
- 512 MB Ram

**PC:**
- Pentium IV
- 512 MB Ram
- Video Card supporting Direct3D or OpenGL

### Import Files
- Import QuickTime videos with sound
- Support for Photoshop layers
- Support for Illustrator layers
- Import and vectorize with textures
- Import and vectorize preview
- Import *Flip Boom* and *Animation-ish* projects
- Animation: Macromedia Flash SWF
- Vector: AI (Adobe Illustrator), PDF
- Bitmap: BMP, TGA, GIF, JPEG, PICT, SGI, PSD...
- Sound: WAV, AIFF, MP3

### Content Creation
- Supports live-action cartooning
- Supports rotoscoping
- Feather edges
- Line styles
- Photograph animation
- Alpha onion skinning
- Pressure sensitivity for variable width lines
- Digital light table
- Contour editor tool
- Free transform tool
- Skew tool
- Sketching and cleaning tools
- Convert lines to brush
- Select scene operator
- Drop shadows
- Different pen settings for pen and eraser
- Scissors tool
- Text tool
- Cutter tool
- Standard drawing and shape tools
- Onion skinning
- Outline onion skinning
- Rotary light table
- Standard field chart for cartoon animation
- Bitmap vectorization
- Scanner support
- Drawing in 3D scene planning
- Erasing with graphic tablet and digital pen
- OpenGL anti-aliasing

### Ink and Paint
- Unlimited colour palettes
- Unlimited number of colours per palette
- Ability to name and organize colour swatches
- Import and export palettes
- Automatic update of painted zones with palette changes
- Colour tranform tool (Flatten option)
- Palette styles
- Templates colour management
- Copy paste texture and gradients mapping
- Global palette tinting
- Auto gap closing tools
- Painting with bitmap textures

### Reuse
- Save live-action movies in the template library
- Global and local templates for reuse in any animation
- Cell-swapping
- Support for all major multimedia files as templates
- Template preview and editing
- Export movie clips as media links for smaller file size

### 3D Layout and Camera
- 3D layout and motion paths for animation elements
- Animated elements
- Animation peg system
- Advanced motion paths
- Multiplane camera moves and effects
- 3D velocity profiles
- Color transformation and clipping effects
- Copy frame properties to any key frame
- Improved visualization and manipulation of key frames from the timeline

### Lip Sync
- Automatic lip chart generation from voice tracks
- Automatic mapping of lip charts to drawings

### Sound Synchronization
- Support for multiple soundtracks
- Fade envelopes
- Precision synchronisation of sound to frame and time
- Master volume control
- Sound streaming
- Sound scrubbing from the timeline

### General User Interface
- Enhanced drag and drop capabilities
- Flexible docking user interface
- Powerful workspace management
- Fast actions combo box
- Welcome screen wizard
- Simplified timeline
- Unified user interface
- Velocity editor button in properties window
- Guide for straight actions
- Project dialog window with presets
- Simplified export window
- Enhanced dialog windows
- Tablet user friendly buttons
- Undo / redo buttons
- Minimize application when rendering
- File import menu option
- Double click actions
- Real-time playback
- Animation-standard exposure sheet, with support for cycle creation
- Multi-layered timeline
- Multiple undos

### Exporting
- Print drawings to create flipbooks or use as a reference
- Export directly to iTunes and YouTube
- Export snapshot
- Flash pre-loaders
- HTML embedding
- Macromedia Flash SWF
- QuickTime with alpha, sound
- PDF
- Color palette export in Flash files
- DV Stream
- AVI
- Image sequences

Features listed in orange are now available in version 4.5