

Tux 2014 Paint

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What is Tux Paint?

- Drawing program
- Aimed at kids ages 3-12 years
- Open source software
 - Free price (*gratis*)
 - Freedom to access the source code (*libre*)
- Runs on Linux, Windows, Mac OS X, & more
 - Written in C
 - Uses Simple DirectMedia Layer (libSDL) & friends
 - Plus numerous other libraries; some optional

Tux Paint's Features

- Basic drawing tools
 - Paint, line, shapes, eraser, undo, redo
- Text tools
- Effects (“Magic tools”)
 - Blur, emboss, ripples, waves, rainbow, foam, ...
- Clip-art & photograph library (“Stamps”)
- Template images (“Starters”)

History of Tux Paint

- Conversation with Stephen Helms (father of, at the time, 4 & 7 year olds) after a LUGOD meeting:
 - Installed Debian Jr. for his kids
 - Only paint software at the time was GIMP
 - GIMP is not exactly easy for adults, let alone kids
 - “Sure, I can whip something up”
- Today: 100s of contributors, ~120 translations, 1000+ stamp images, Windows & Mac support, millions of downloads, numerous awards & reviews
- Used by schools around the world!

Obligatory Screen-shot



Tux Paint 0.9.22

- Released August 2014 (prev. was in June 2009)
 - Source code
 - Windows XP, 2000, Vista, 7, 8
 - Windows 95, 98, ME
 - RPM-based Linux (RHEL 4.x thru 7; x86-64 & i386)
 - pkgsrc-based UNIX-like systems (FreeBSD, etc.)
 - Debian (will be in Jessie)
 - Mac OS X (beta from July; latest stable needs porting!)

What's new in Tux Paint 0.9.22? (1/7)

<http://tuxpaint.org/latest/tuxpaint-0.9.22-press-release-en.php3>

- Label tool
 - Like “Text” tool, but text isn't drawn onto the picture
 - Hovers above; may be edited & repositioned later
- New “Magic” tools
 - Blinds, Pattern, Perspective, Puzzle, ROYGBIV Rainbow, Mosaics, Up/Down & Left/Right Symmetry, Tiles, Wet Paint, XOR colors, Zoom

What's new in Tux Paint 0.9.22? (2/7)

- Accessibility features
 - Painting via “click, move, click”
(vs. the typical “click + hold, move, unclick”)
 - On-screen keyboard
 - Keyboard & joystick for moving mouse pointer
- These are useful for users with physical handicaps, and for specialized devices (e.g., tablet, MAME arcade cabinet, etc.!).

What's new in Tux Paint 0.9.22? (3/7)

- “Delete” button in the “Open” dialog moves files to your desktop's trash folder
 - freedesktop.org systems only (e.g., Linux)
- More responsive start-up
 - TrueType Font system we use would spend a long time generating a cache of all system fonts, the first time you run Tux Paint (if you don't have any other *fontconfig*-based apps installed (e.g., GIMP) already)
 - Now runs as a separate thread, so Tux Paint doesn't appear to “hang”/“lock-up” any more

What's new in Tux Paint 0.9.22? (4/7)

- Support for “Templates”
 - Images upon which you can base new drawings
 - “Starters”, from earlier versions, were similar; they acted like coloring books, “hovering” above what you draw
- Starter & Template images may now be in:
 - SVG (Scalable Vector Graphics)
 - KPX (Kid Pix templates)
 - ...along with PNG & JPEG formats, as before

What's new in Tux Paint 0.9.22? (5/7)

- New content:
 - Starters
 - Now nearly 60
 - Templates (new feature!)
 - Nearly 20
 - Brushes
 - Now over 50
 - Stamps
 - Now over 1000

What's new in Tux Paint 0.9.22? (6/7)

- New localizations (translations to languages & dialects)
 - European
 - Aragones, Bosnian, Luxembourgish, Serbian, Valencian, and Venetian
 - Indian continent
 - Assamese, Kannada, Konkani, Maithili, Malayalam, Manipuri, Marathi, Nepali, Odia, Punjabi, Sanskrit, Santali, and Sinhala
 - Africa
 - Acholi, Akan, Amharic, Bambara, Fula, Kiga, Luganda, Northern Sotho, Sudanese, and Zulu
 - and more
 - Armenian, Persian, Sundanese, and Inuktitut
- Updates to some existing translations
- Tux Paint's been translated (at least partially) to about 120 locales!

What's new in Tux Paint 0.9.22? (7/7)

- Gamma-corrected scaling
- Misc. tweaks & improvements
- Various Mac OS X tweaks (for 10.9 & later)
- Build-system improvements
- Bug fixes
- ... it's all documented in the change log
<http://tuxpaint.org/docs/CHANGES.txt>

Demo

Demo time!

What shall we look at!?

More Information

- Tux Paint website
 - <http://tuxpaint.org/>
 - Tons of information, screen shots, reviews, documentation
 - Links for downloading
- Tux4Kids website:
 - <http://tux4kids.alioth.debian.org/>
 - Umbrella organization
 - Other apps: TuxMath, Tux Typing
- New Breed Software
 - <http://newbreedsoftware.com/>
 - Bill's other open source software (mostly games)