



Open Source 2D and 3D Animation software

Dan Eliot
Yorba Linda High School

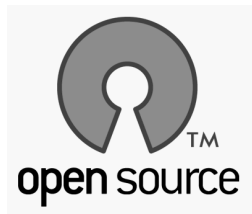
I. About Me

- Yorba Linda HS
- deliot@pylusd.org
- LifeLongLearner.us
(PDF of this presentation)



II. Goals

- Open source animation
- Features and comparison
- Share student animations
- Conclusions



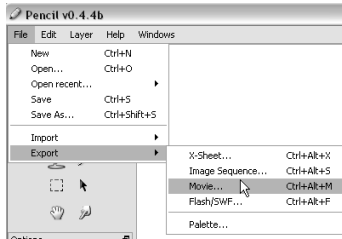
III. Pencil

- Traditional 2D Animation
- <http://pencil-animation.org/>
- Windows, Mac, Linux



III. Pencil

- Export QuickTime (mac), Flash SWF (mac, pc), and individual frames (all)



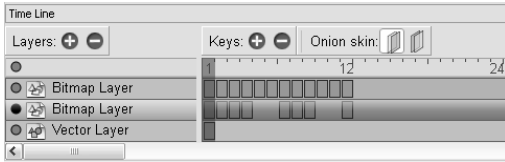
III. Pencil

- Has standard drawing tools
- Supports alpha transparency, RGB



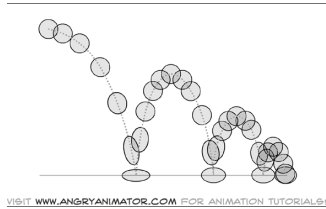
III. Pencil

- Has a timeline with bitmap, vector, camera, and sound “guide” layers
- Has KeyFrames and Onion Skins



III. Pencil

Let's try the classic bouncing ball with motion guide layer



VISIT WWW.ANGRYANIMATOR.COM FOR ANIMATION TUTORIALS!

III. Pencil

- Jaimee D. Morph Assignment
- Kevin C. Morph Assignment
- Patrick K Phonemes Assignment
- Jamiee D. Phonemes Assignment

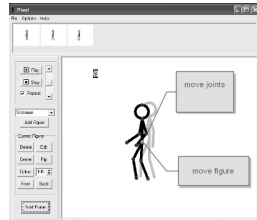
Samples!



IV. Pivot

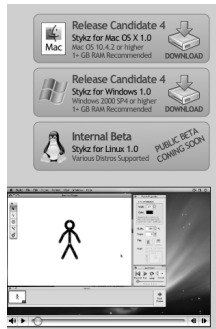
- Stick Figure Animation
- Windows only
- Rapid animation completion

<http://bit.ly/cVefUQ>



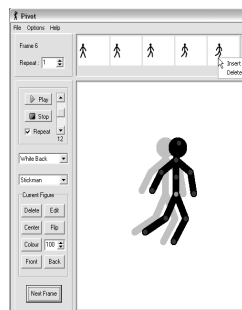
IV. Pivot

- New clone called “Stygz”
 - PC, Mac, Linux
- <http://www.stygz.net>



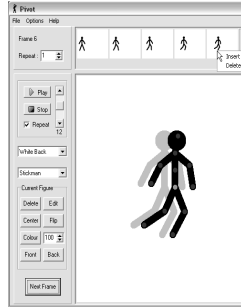
IV. Pivot

- Visual Timeline
- Onion Skins
- Background images
- Insert/Delete



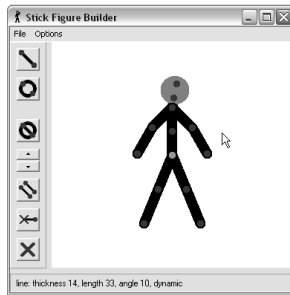
IV. Pivot

- Save .PIV files
- Export Animated GIF and individual frames



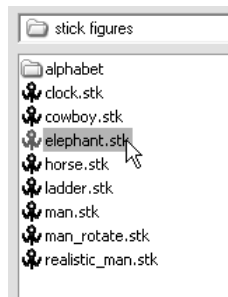
IV. Pivot

- Stick Figure Builder



IV. Pivot

- Gallery of additional stick figures



IV. Pivot

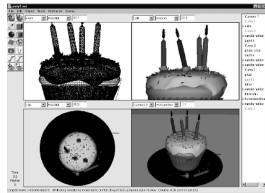
- Brad B. Walking Cycle
- Andrew T. Walking Cycle
- Our YLHS Pivot Movie

More
Samples!



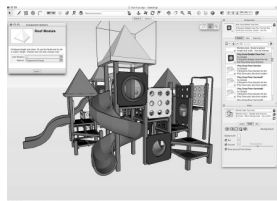
V. 3D Animation

- Art Of Illusion
- 3D modeling and rendering studio
- Multiplatform
- <http://aoi.sourceforge.net/>



V. 3D Animation

- Google Sketchup
- Create, modify and share 3D models
- <http://sketchup.google.com/>



V. 3D Animation

•Google Sketchup has MANY plugins for rendering, etc.

•<http://sketchup.google.com/download/plugins.html>

Photorealistic Rendering (inside SketchUp)

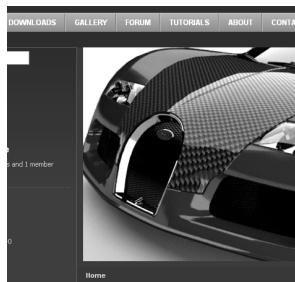
Plugin
iDX Renditioner
iRender n2i
LightUp for SketchUp
Podium
VRay
Indigo Renderer
HyperShot
Twilight Render

Photorealistic Rendering (with another render

Plugin
3DPaintBrush
Artlantis
Maxwell Render
Kerkythea

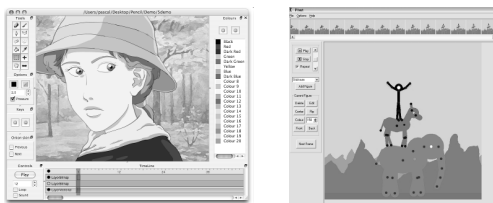
V. 3D Animation

•Kerkythea
•Photorealistic Renderer
•Plays nice with Google Sketchup
•<http://www.kerkythea.net>



VI. Conclusions

•Pencil and Pivot could form the basis of a Semester-long 2D Animation course or unit.



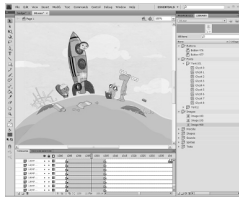
VI. Conclusions

•Pencil, Pivot, Google Sketchup and Kerkythea could form the basis of a 2D/3D yearlong Animation course.



VI. Conclusions

•Adobe Flash (\$\$) is a great addition to a year-long Animation course, and affords certification opportunities for kids.



VII. Questions / Comments