







Interactive design used to be simple.





Demand drives innovation





Advanced 2D and 3D on GPU

Interactive animations



ADVICE FOR EDUCATORS

- Try not to have students focus or obsess on a single technology.
- For example, having a good design sense is much more important than knowing every little feature in Photoshop.
- Designers who know how to code are in huge demand.
- HTML5 and JavaScript should be the primary technology used.
- Flash is absolutely essential for game developers and animators.
- Have a class teaching students how to teach themselves!





SOME GOOD NEWS



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Google Chrome is now the top browser in the world







ADOBE AND HTML

html.adobe.com

Adobe

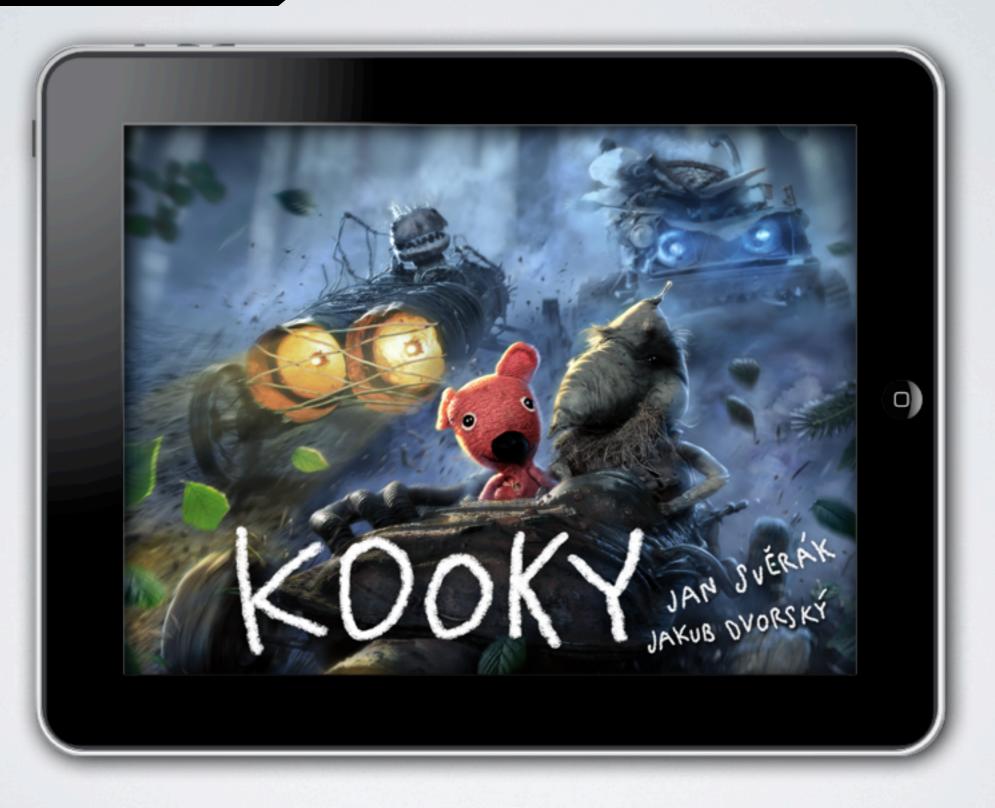


CSS Regions CSS Blend Modes CSS Exclusions

CSS Shaders



ADOBE PHONEGAP







HTML5 for Flash Developers



with Lee Brimelow

lynda.com



Flash Professional Future



SPRITE SHEET EXPORTER

Generate Sprite Sheet		
Symbol Information 1 symbol selected	Sprite Sheet: 12 frames Image file size: 154 KB	
✓ driver_runCycle_side	Sprite Sheet Preview	
	Image Size: Auto size 💌	Algorithm: Basic
	Width: 512 px	Data Format: Sparrow v2 •
	Height: 1024 px	Cotate
	Image Format: PNG 32 bit V Background: Transparent V Border Pac	Trim Stack frames
		Border Padding: 0 px
12 frames		Shape Padding: 0 px
Frame Rate: 24.00 fps Duration: 0.50 seconds	Browse driver_runcycle.png	Export Cancel

CREATEJS EXPORTER





HTML



Adobe

FLASH PRO FUTURE

Application refresh

- Rebuilt from ground-up
- Even better extensibility via JSFL
- 64-bit native and HiDPI (retina) ready

New use-cases we currently explore

- Asset pipeline for animations, UI, interactive design and gaming
 - optimized export of bitmap spritesheets and vector graphics for GPU
- Export assets for use with various platforms and languages
 - C++, Obj-C, C#, ActionScript, JavaScript



Adobe

ANIMATION TOOLS



Anywhere

Flash Pro

- Assets creation and design
 - Gaming, Video, Cartoons, Interactive content anywhere
- Vector animations
- Bitmap animations
- Spritesheets
- Export to various platforms



Web + HTML apps

Edge Animate

- Motion design on the web
- Animate and interact with HTML elements
 - DIV, IMG, SPAN...
- Available on any device via browser
- Perfect for Digital Publishing Suite





New GPU powered Flash

TWO AREAS



Advanced video



Gaming



WHAT IS ADVANCED VIDEO



- Content protection (DRM)
- Live streams
- On-demand video (DVR)
- Analytics and ad integration
- Animated overlays
- and much more

WHY USE FLASH FOR GAMES?



CONSISTENCY AND REACH





Over 1.3 Billion people

Can play your game. No install. No friction. Now.





Flash Player brings an audience 20x greater than Xbox 360. Plus 500M iOS + Android devices with AIR. **PlayStation 3** Xbox 360 Flash Player Wii

SILENT AUTO-UPDATES



In 48 hours, we can update 600 million people to the latest Flash Player.

600 million + Google Chrome + Win 8 IE10 ModernUI

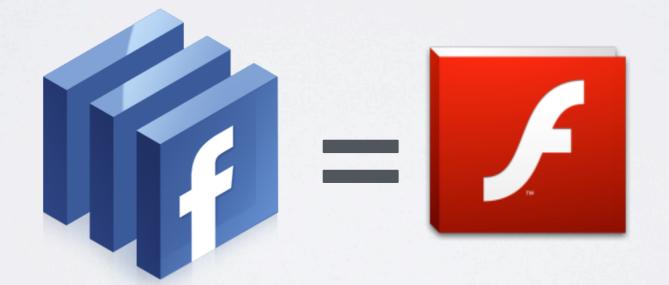






FLASH RULES FACEBOOK

96% of the top Facebook games are delivered with Flash.



















DEMOS

APPLE AND FLASH





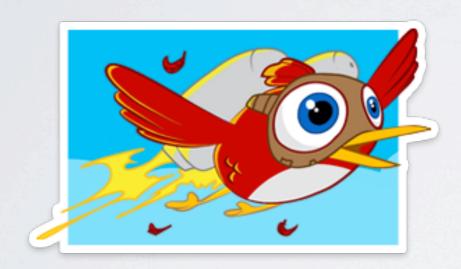


1000x faster 2D & 3D rendering. Cinematic, fluid 60 fps graphics. Across desktop browsers, iOS, Android. Full GPU acceleration on ~85% of all connected PCs.



DEVELOPING GAMES ON STAGE3D

STARLING





AWAY3D

Supported frameworks by Adobe



OTHER USEFUL FRAMEWORKS

FEATHERS UI



CITRUS

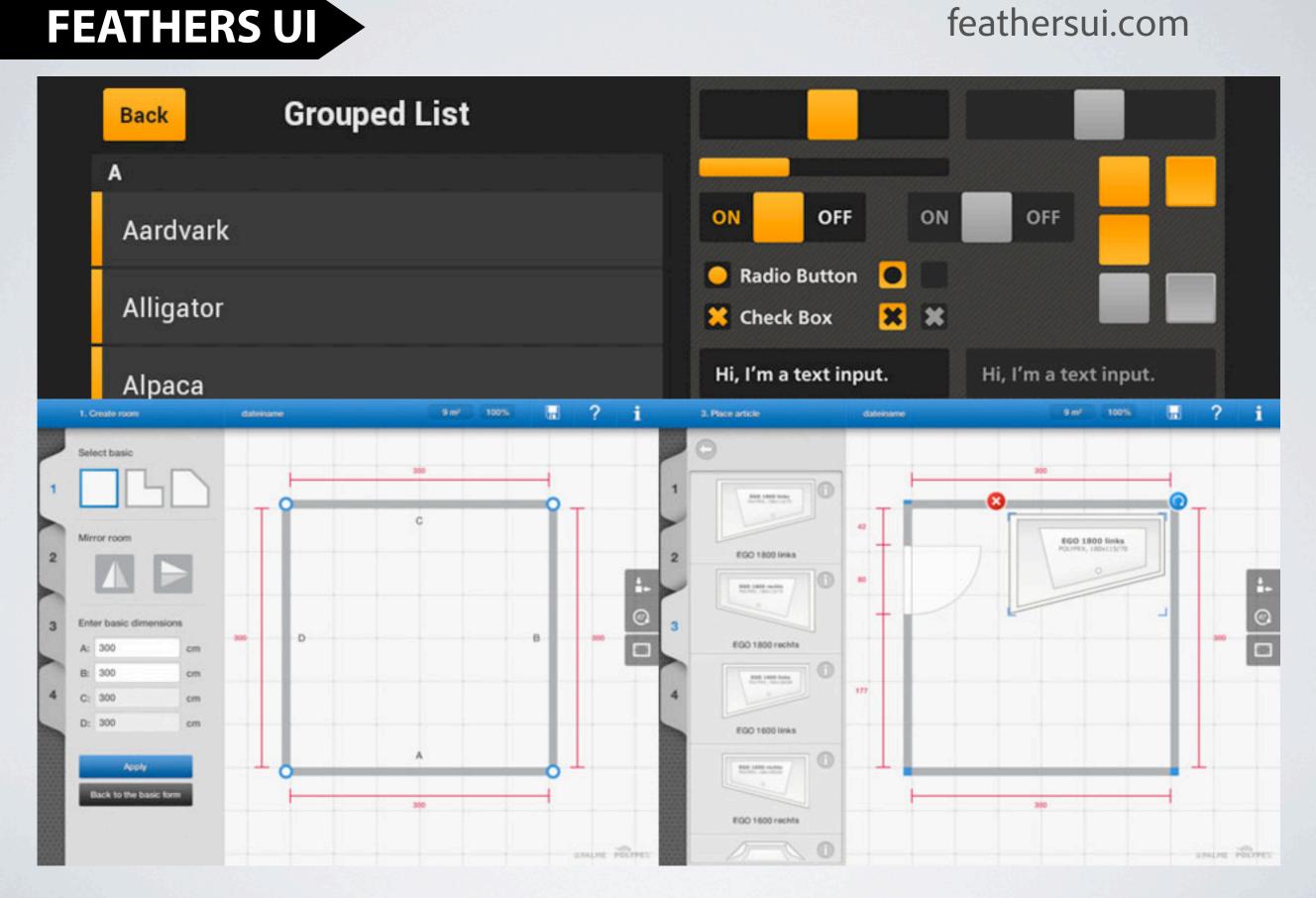


feathersui.com

citrusengine.com



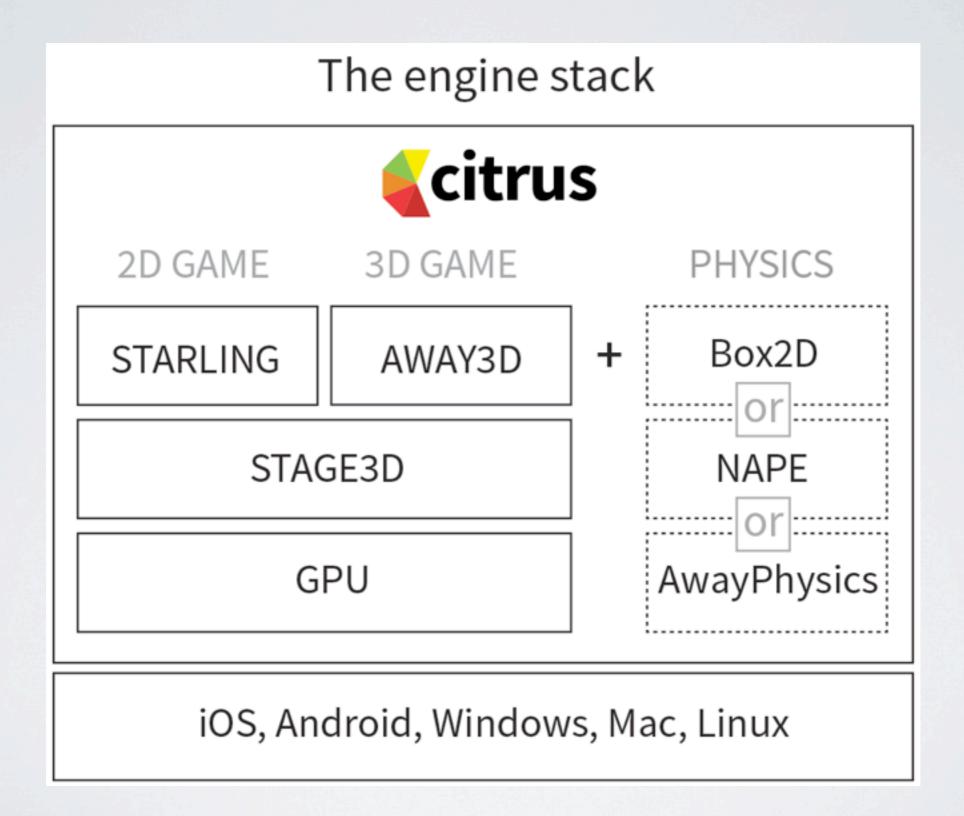
feathersui.com





CITRUS GAME ENGINE

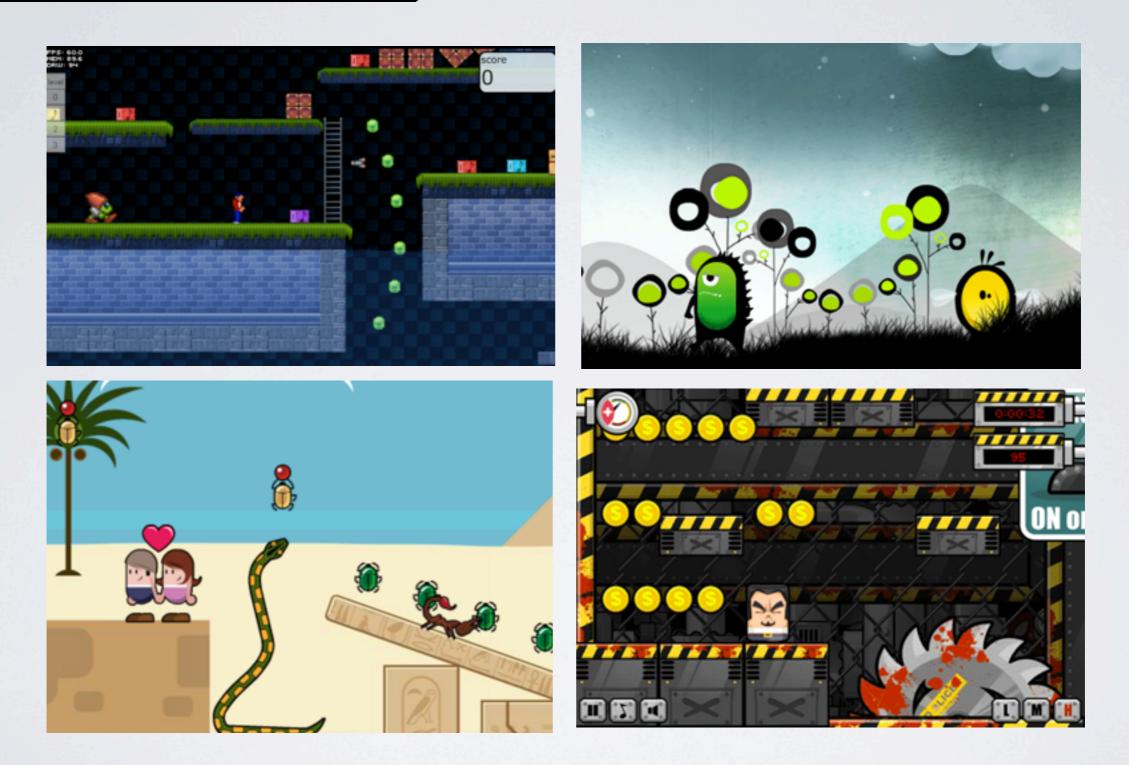
citrusengine.com





CITRUS GAME ENGINE

citrusengine.com



"Perfect for teaching game development!"



DEMOS



FLASH RUNTIME ROADMAP

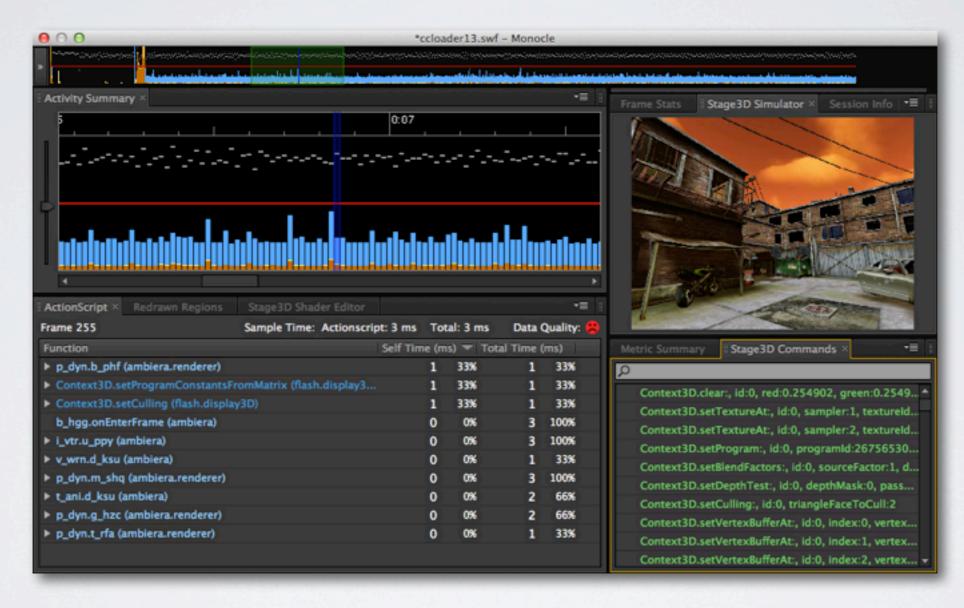
Adobe

FLASH PLAYER NEXT

Performance performance performance

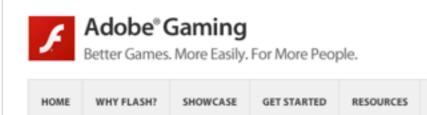
- Creating a new virtual machine built from ground-up
- Significantly updating the ActionScript language
- Changes will make ActionScript up to 4x faster
- More advanced gaming features to enable console-quality

MONOCLE



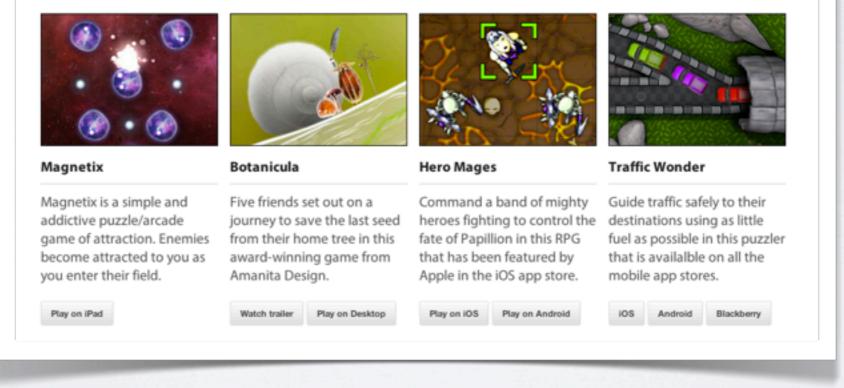


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Playing is believing.

Flash technology powers the most games on the web – including the most successful games in the world on social networks like Facebook, Tencent, Gree, and DNA. It also enables best-selling and award-winning mobile apps in the iOS App Store, Android Market, and Amazon Appstore. One platform. Awesome games everywhere...



gaming.adobe.com

ADOBE GAME JAMS

- Fun, creativity, programming, evangelists on-site, party
- Target: Game designers, developers, artists, musicians
- 24 hours
- Next one in Chicago on 30th November 2012
 - register: adobegamejamchi.eventbrite.com
- Looking at Seattle, Austin, Boston, Los Angeles
- Join us!
- gaming.adobe.com/events/gamejams



"BE OPEN, BE CREATIVE, HAVE FUN"





QUESTIONS?