

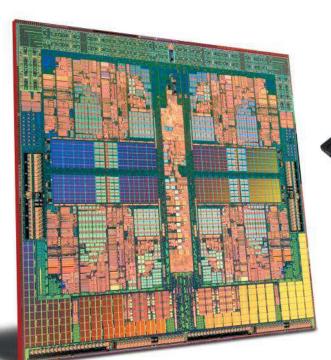


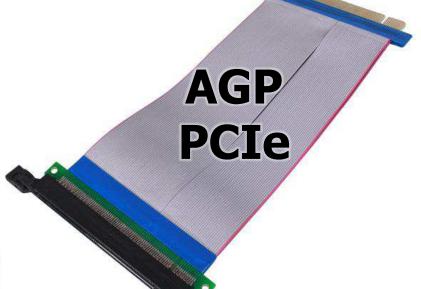


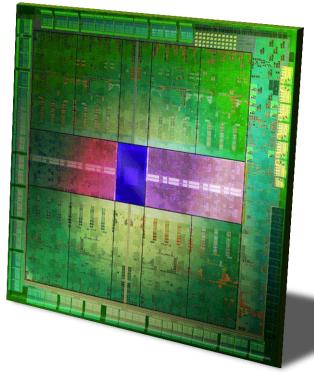
Platform Performance Dan Wexler, CxO The 11ers



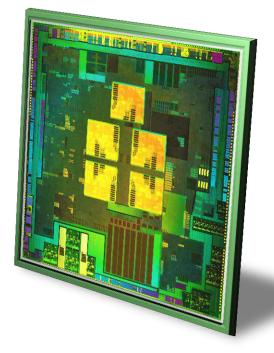
CPU



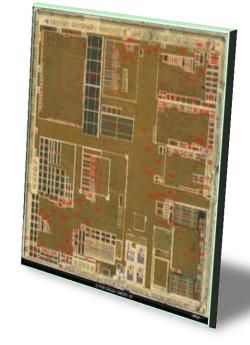




GPU







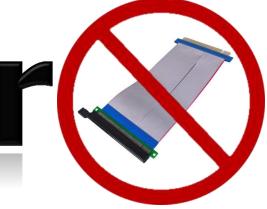
Tegra

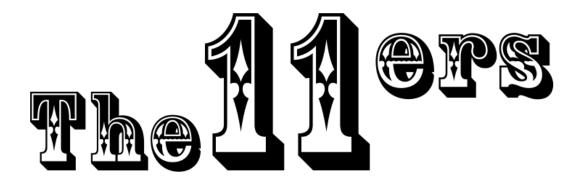
Apple

Snapdragon









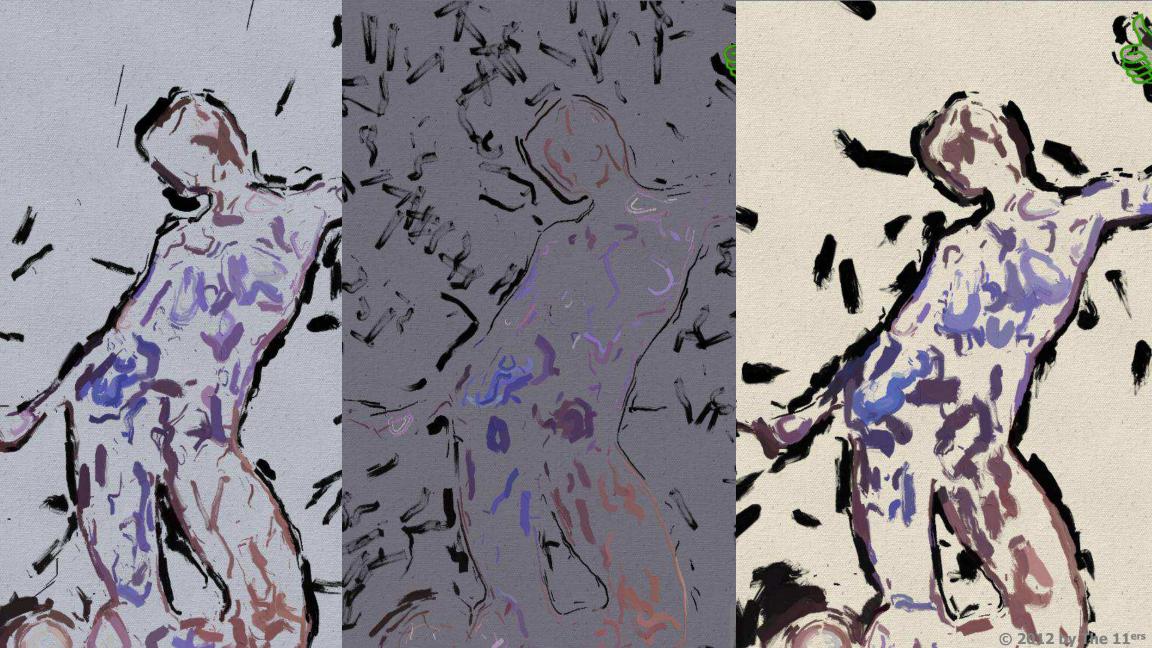
"Leading edge graphics in tasty mobile bytes."

Small Scope → Low Risk → Experience

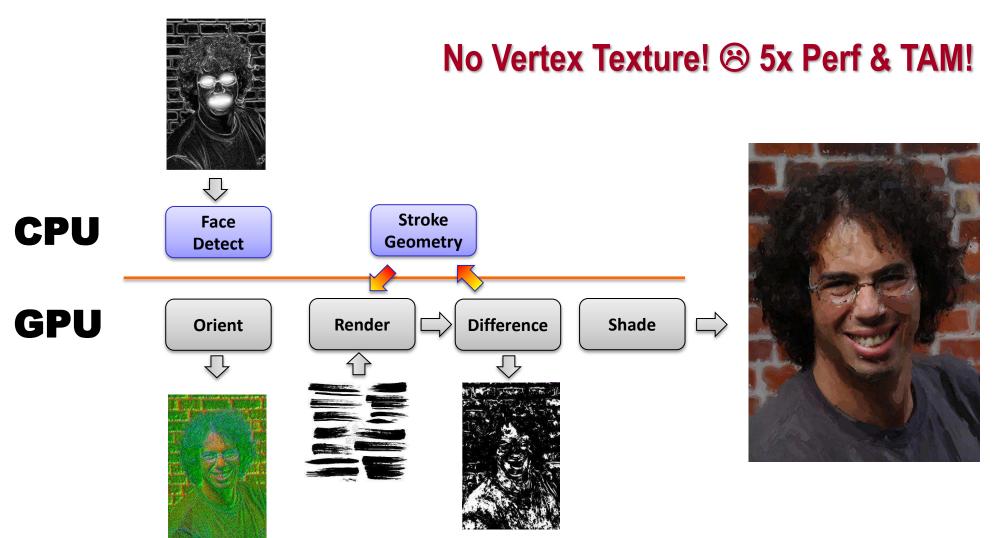
Glaze







Dynamic, Dependent, Reusable



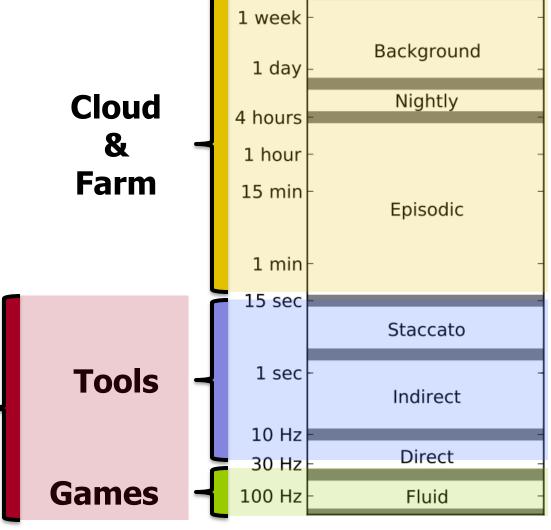


Workflow Scale

Mobile

Performance

Prosumer



Enderton & Wexler, "The Workflow Scale: Why 5x Faster Might Not Be Enough", CGI 2011

What's Shared Memory?

- No copies (OpenGL API forces copies)
- Simplified synchronization (map/unmap, fence, cache flush)
- Shared virtual address space (segmented ok)
- Texture instead of attributes? (Why VAR failed?)

 Must be able to dynamically generate geometry on GPU and CPU (© GLES3)
- Gosh, it would be really nice if pointers Just Worked ™
- Shared memory uses less power & less bandwidth







Leapfrog Opportunity



Thanks to Cass Everitt, Eric Enderton

Panel Session

Sean Mao

- VP Marketing, Advanced Imaging Technologies, ArcSoft

Itay Katz

- Co-Founder & CTO, Eyesight

Ben Blachnitzky

- Director of R&D, Metaio

Jim Steele

- VP Engineering, Sensor Platforms

Daniel Wexler

- CXO, the11ers