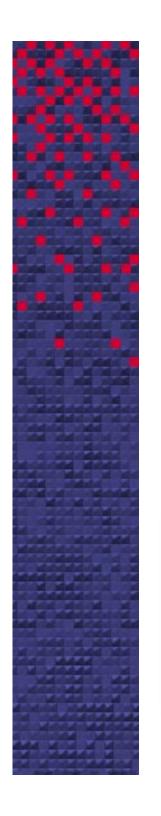




Java[™] Gaming

Speakers

- Panelists
 - Doug Bell, FTL Games
 - Joshua Bell, DimensionX
 - Bob Troia, ICon CMT Corp.
 - Wayne Holder, FTL Games
- Moderator
 - Miko Matsumura, JavaSoft, Sun Microsystems, Inc.





Java Games Doug Bell, FTL Games www.2nu.com

Current Limitations with Games in Java

- Poor sound support
- Lower performance
- No direct access to hardware
- Missing support for input devices
- ◆ The sandbox



Features of Java Important to Games

- Networking
- No porting (well, someday)
- User extensibility keeps games alive
- HTML
- Instant access through browser
- Did I mention networking?

Networking Games

- Multiplayer is King
- Uniform and high-level networking API
- Technology is invisible to user



Java Games Don't Require Porting

- Porting game to platforms is expensive
- Most games traditionally limited to a few platforms
- Eventually, uniform APIs will decouple hardware from software

Extensibility Keeps Games Alive

- Dynamic binding is like plug-ins on steroids
- ◆ Longer "shelf" life with open architecture
- Online editors
- Networking allows sharing of user extensions and creates interest

HTML and Games

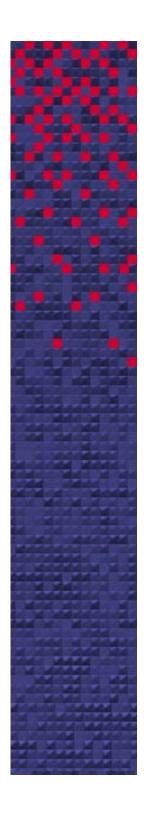
- HTML can be part of the game
- Provides a rich environment for auxiliary material
- Allows for distributed gaming environments



Instant Access

- Games are an impulse product
- Capture attention and hold it
- Games as a marketing vehicle
- ◆ Interactivity *is* games







Doing Cool Stuff Now

Wayne Holder, FTL Games www.2nu.com

Java Advantages for Game Development

- Rapid Prototyping
 - Custom editors are easy to add
 - Modular development
- Built-in Error Checking
- Dynamic Binding
- Java is really a dream language for games

Yes, but Isn't Java Too Slow?

- Speed is relative
- JITs are closing the gap
- APIs are native

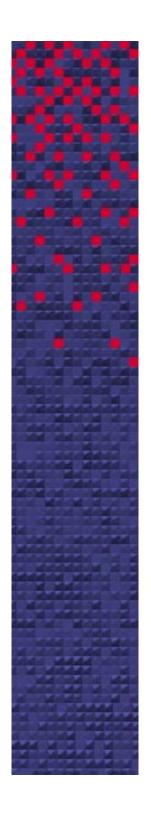


Pushing the Envelope

Demos

- Fractal Planet
 - 800,000 fp muls, 300,000 fp divs,
 100,000 fp sin, cos, etc. per frame
- Splatt Ray Casting Engine
 - 9 fps at 240x140 on 100 MHz PPC 601 (Power Mac 7500)







Q & A

