

# Paladin

3D GAMING ON THE OPEN WEB



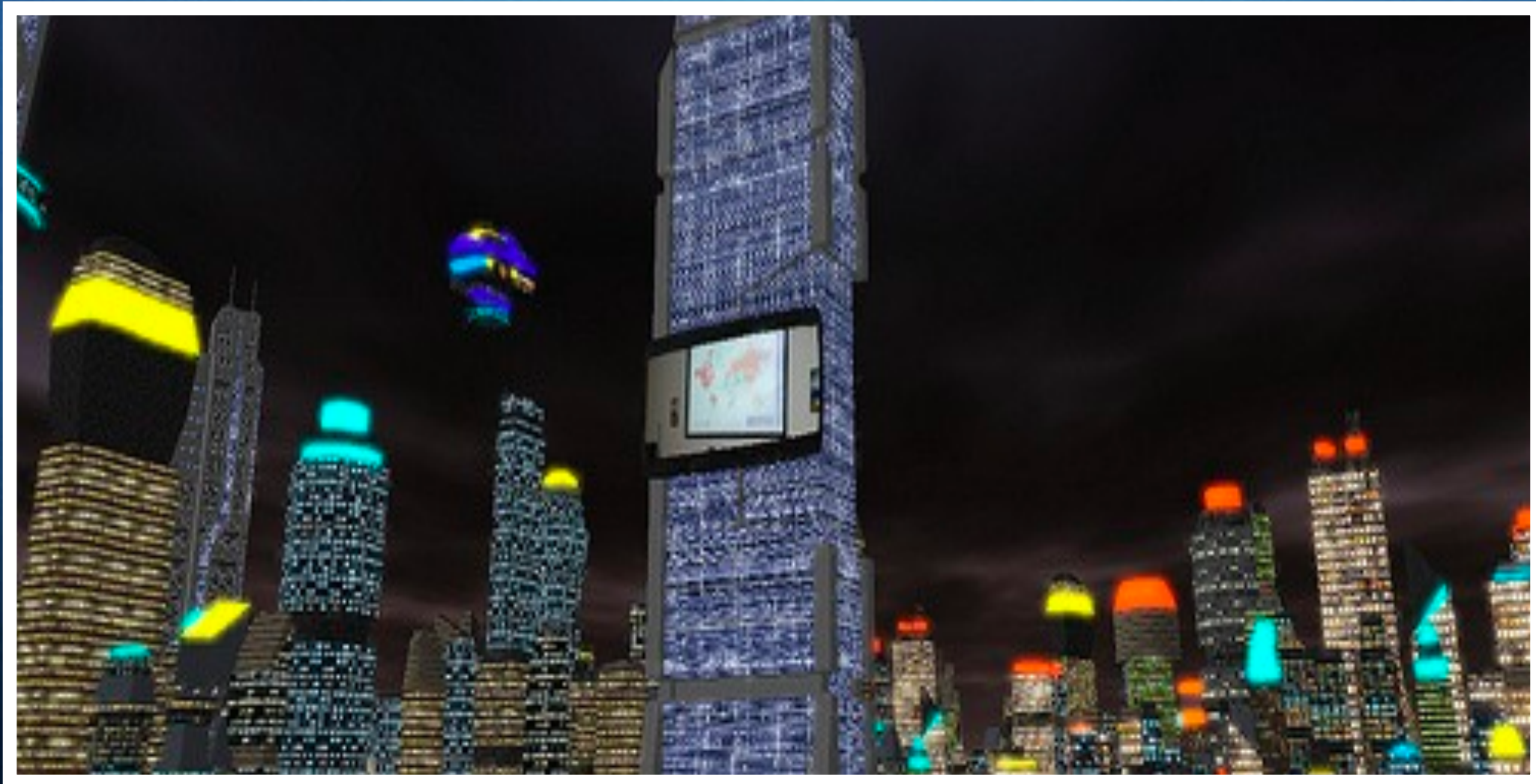
[mzl.la/mozpaladin](http://mzl.la/mozpaladin)

# Overview

- What's Paladin?
- What we're working on:
  - Gladius engine
  - Web APIs
  - Experiments
- What's next



# It started with demos...

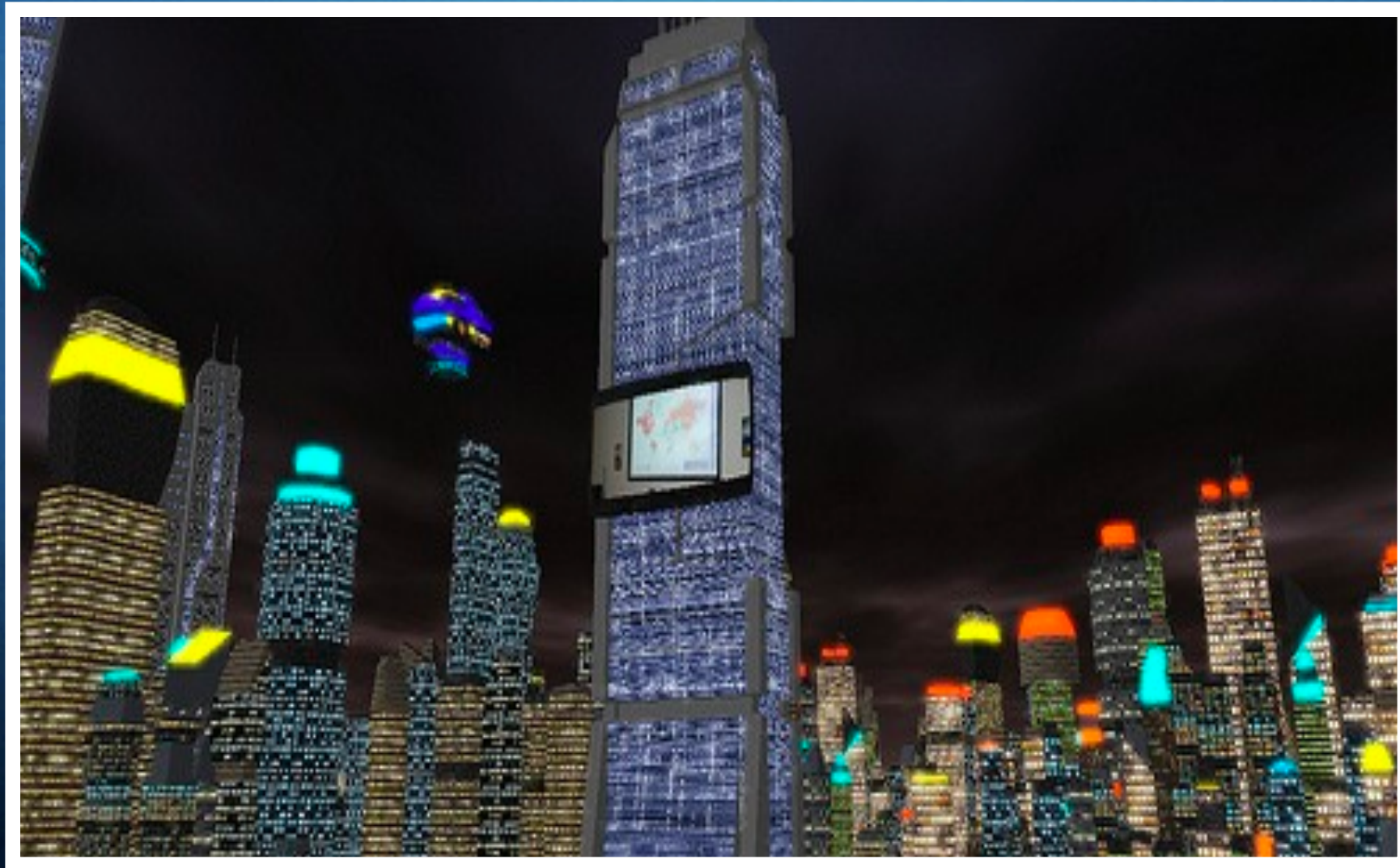


## Flight of the Navigator

<http://mzl.la/fotn-ff>



# It started with demos...

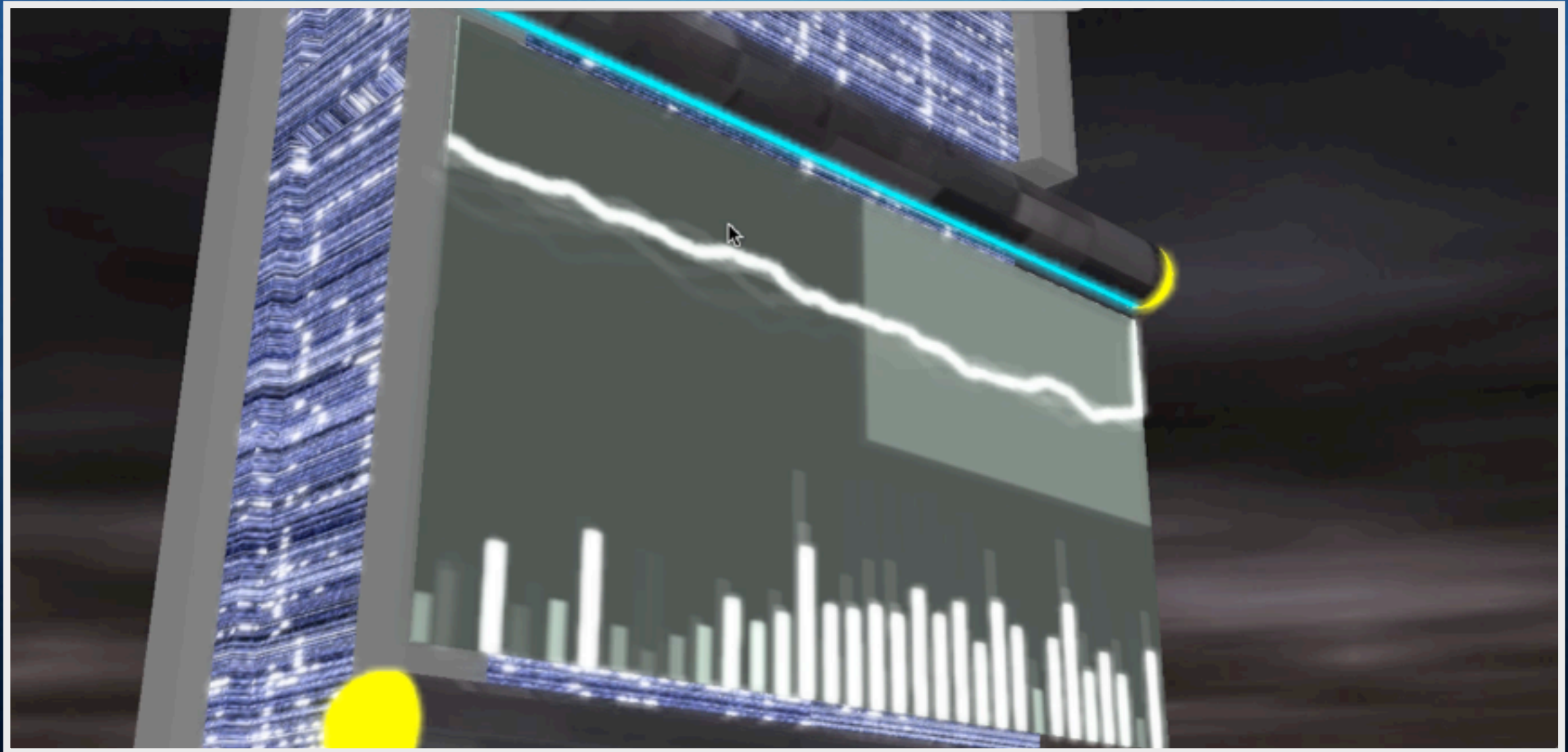


## Flight of the Navigator

<http://mzl.la/fotn-ff>



# It started with demos...



## Flight of the Navigator

<http://mzl.la/fotn-ff>

# Demos push the web forward...

- Firefox Audio Data API
- WebGL
- Emscripten
- JS enhancements
- Processing.js, Popcorn.js



Games can push  
the web **FURTHER.**

# What is Paladin?

**mozilla**  
FOUNDATION

mozilla LABS

- weaponize the web platform for 3D gaming
- collaborating on tools, libraries and open standards



# GLADIUS

- An open source, community-developed 3D game engine.



# GLADIUS UNDER THE HOOD

- JS and HTML5
- CubicVR.js, ammo.js
- asset management (async, workers)
- modern game engine design





# CUBICVR.JS

- written by C.J. Cliffe
- JS WebGL 3D Engine
- Used for multiple projects:
  - Flight of the Navigator
  - No Comply
  - Gladius



No Comply

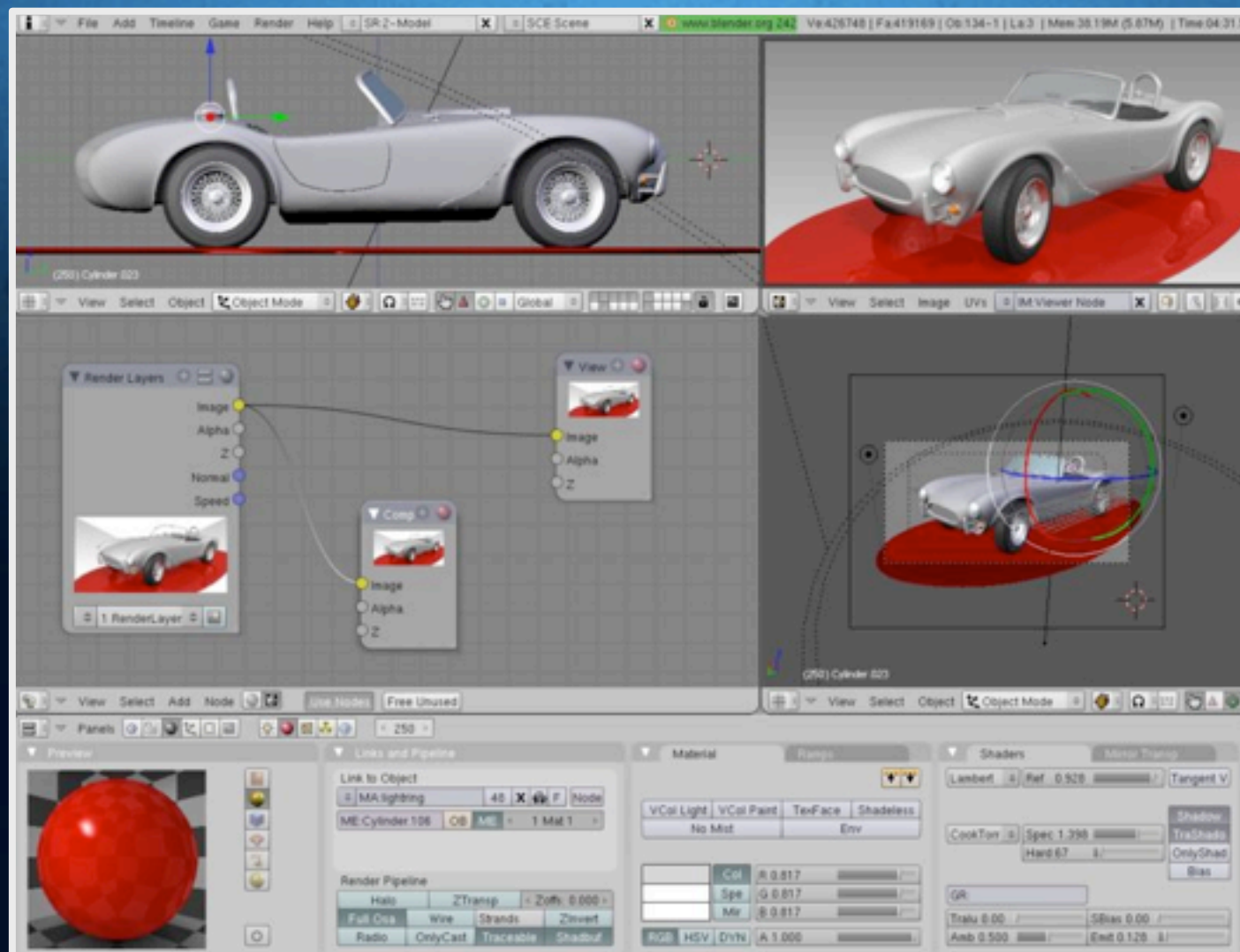


Flight of the Navigator



# ASSET PIPELINE

- use Blender for modeling/animation
- COLLADA export (xml/json)
- free, open, standardized, easy





# RescueFox:

## The Value of a Prototype

- Our first game
- Quick n' dirty
- CubicVR.js
- ammo.js



- 1. Experiment**
- 2. Learn**
- 3. Weaponize**



# Are We Fun Yet?

<http://mzl.la/arewefunyet>

# Gamepad support

- HTML5 API spec for gamepad support
- Experimental Firefox implementation
  - <http://mzl.la/mozgamepad>
- input.js
  - Jon Buckley





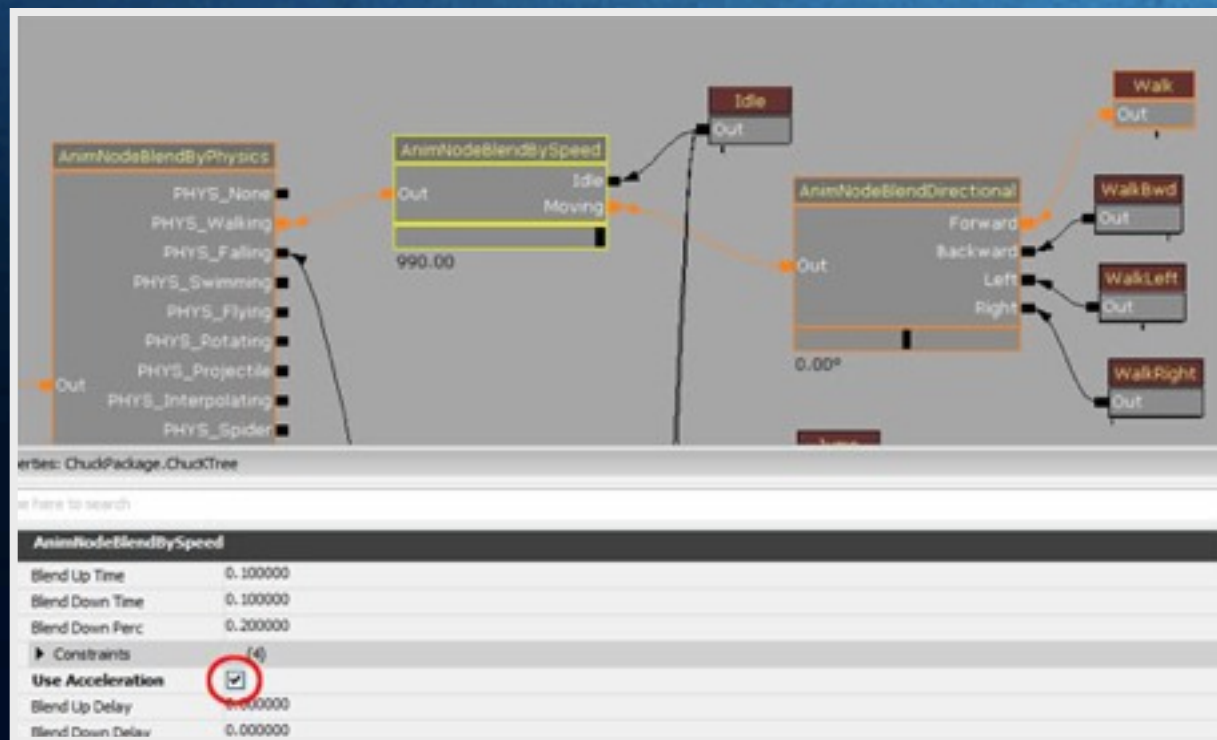
# Browser ID

- Decentralized identity
- Roll your own
- Save and load

	O	O
X	O	
	X	

# What's next

- Gladius 0.1 and beyond
- More demo games
- Mouse-lock API (W3C as of Monday)
- Node editor for animations/compositing



UDK Nodal Animation Editor



Doom circa 1993



# Getting involved

<https://wiki.mozilla.org/Paladin>  
#paladin on irc.mozilla.org  
paladin-dev on Google Groups



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Questions?